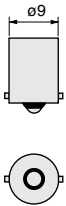
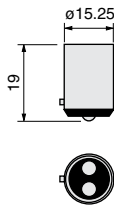
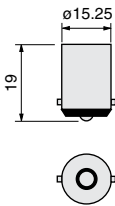
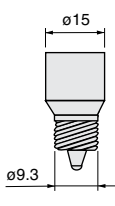
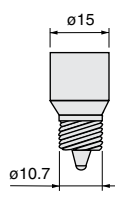
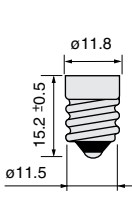
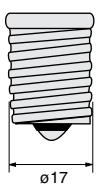
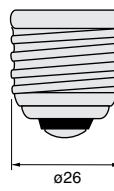
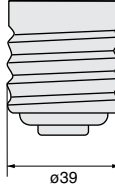
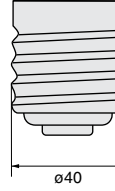
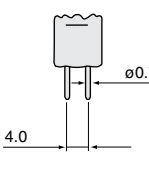
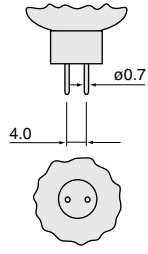
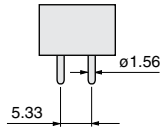
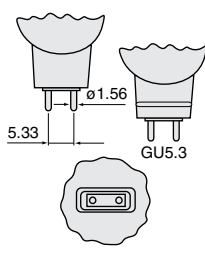
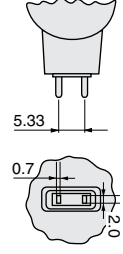
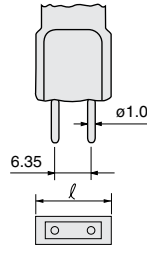
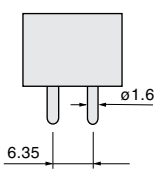
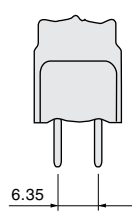
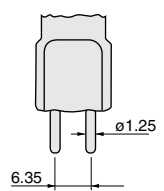
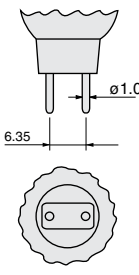
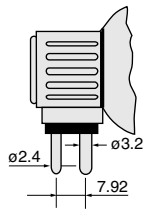
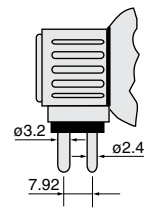
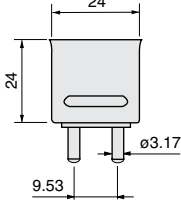
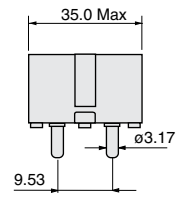
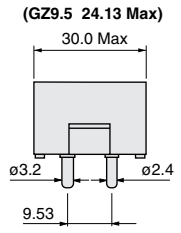
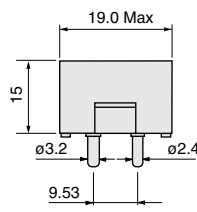
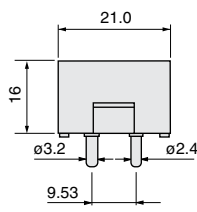
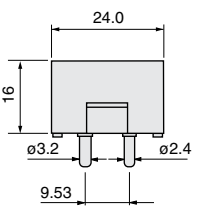
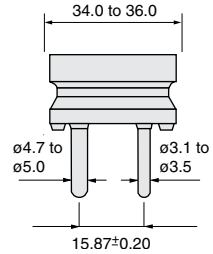
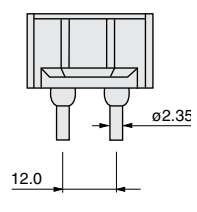


LAMP BASE TYPES

BA9s 	BA15d 	BA15s 	E10 	E11 	E12/15 
E17 	E26 	E39 	E40 	G4 	GZ4 
G5.3 	GX5.3/GU5.3 	GY5.3 (Flat Pin) 	G6.35 	G6.35/15X19 	GX6.35 
GY6.35 	GZ6.35 	G7.9 	GX7.9 	G9.5 	GX9.5 
GY9.5 (GZ9.5) 	GY9.5/15X19 	GY9.5/16X21 	GY9.5/16X24 	GY16 	G12 

LAMP BASE TYPES

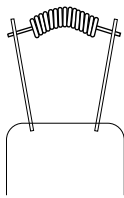
G22	GY22	G22/28X42	G22/30X53	G38	G17q-7
G17t-7	GX17q-7	P14.5s	P28s	P30s	P40s
Fc2	R7s-12/ R7s-18	RX7s			

LAMP FILAMENT TYPES

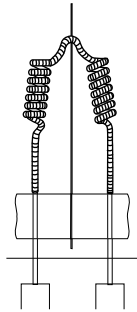
Click Below To Order

Interlight Specialty Bulbs
1-800-743-0005
www.interlight.biz

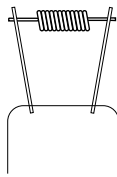
C-2R



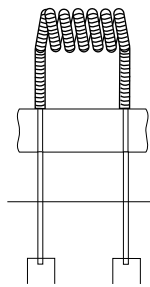
CC-2V



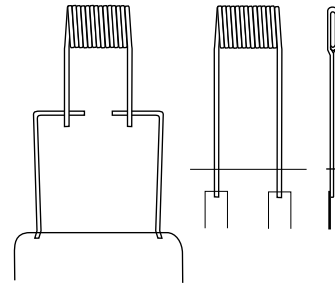
C-6



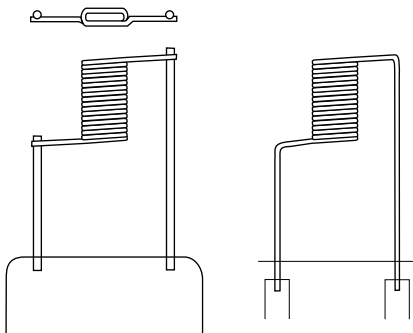
CC-6



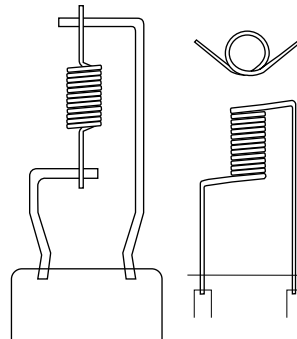
CBar6 (CF-6)



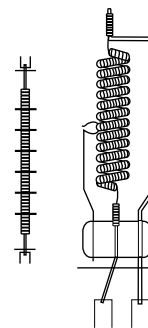
CBar8



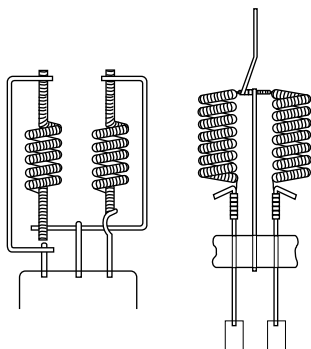
C8



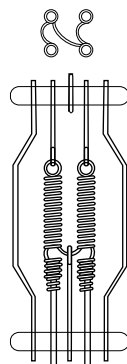
CC-8



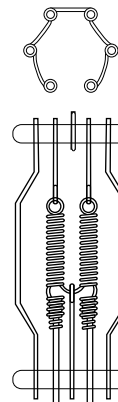
2CC-8



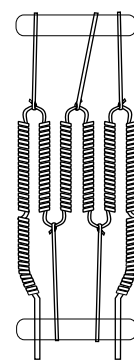
4-C8



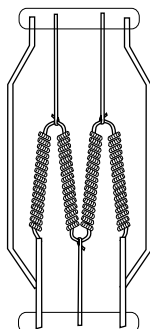
6-C8



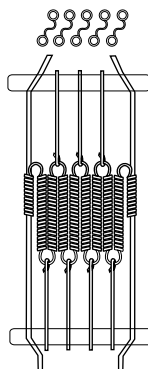
C-13



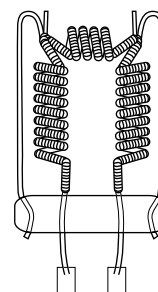
CC-13



C-13D



SPECIAL



REPLACEMENT LAMPS FOR LCD AND DLP PROJECTORS

Model #	Order Code	Model #	Order Code	Model #	Order Code	Model #	Order Code
A+K		CANON		EIKI		EIKI	
	AstroBeam 5002051		LV-5500 5000918		EIP-25 5001644		LC-SX1 (U) (UL) 5000843
ASK	X211		LV-7105 5001178		EIP-200 5001648		LC-SX2 series 5000941
			LV-7210 5002029		EIP-1000T 5001645		LC-SX3 series 5000941
	C100		LV-7215 5002029		EIP-1500T 5001650		LC-SX4 (A) (i) 5001305
	C105 5002051		LV-7320 5001040		EIP-2500 5001649		LC-SX4L 5001305
	C85 5002051		LV-7320 5001040		EIP-3500 5001654		LC-SX6 5001656
BOXLIGHT	C95 5002051		LV-7320E 5001040		EIP-4500 LAMP1 5001653		LC-UXT1 5001304
			LV-7325 5001040		Requires 2 Different Lamps		LC-UXT3 5001440
			LV-7325E 5001040		EIP-4500 LAMP2 5001652		LC-VC1 5001177
			LV-7340 5001307		Requires 2 Different Lamps		LC-W3 5001655
	20HD 5001306		LV-7345 5001307		LC-120 (PAL) (U) 5000794		LC-W4 5001442
	3600 (A) 5000791		LV-7500 5000918		LC-150 5000793		LC-X1 5000843
	3650 5000795		LV-7510 5000937		LC-1510 5000793		LC-X1000 5001306
	6000 5000795		LV-7525 5001039		LC-1610 5000777		LC-X1U 5000843
	6001 5000795		LV-7525E 5001039		LC-180 5000777		LC-X1UA 5000843
	9600 5000843		LV-7545 5001306		LC-180AR 5000777		LC-X1UL 5000843
	9601 5000843		LV-7555 5002023		LC-1810 5000777		LC-X2 series 5000941
	CD-600m 5002054		LV-7565 5001641		LC-200 5000776		LC-X3 series 5000941
	CD-750m 5002054		LV-S1 5001436		LC-300 5000773		LC-X3L 5000941
	CP-7T 5000858		LV-S3 5002033		LC-3010 5000776		LC-X4 5001305
	CP-10T 5000858		LV-X1 5002022		LC-330 5000776		LC-X4A 5001305
	CP-11T 5001040				LC-3310 5000776		LC-X4L 5001305
	CP-12T 5001307				LC-350 5000775		LC-X5 5001442
	CP-13T 5001040				LC-3510 5000775		LC-X5/L 5001442
	CP-15T 5000919				LC-360 5000778		LC-X50 5002023
	CP-16T 5001307				LC-3610 5000778		LC-X50M 5002023
	CP-18T 5001307				LC-4000 5000777		LC-X6 5001656
	CP-19T 5001307				LC-4200 (PAL) 5000777		LC-X60 5001641
	CP-33T 5001040				LC-4300 (PAL) 5000778		LC-X70 5001641
	CP-36T 5001039				LC-4300 (S) (U) 5000778		LC-X982 5001039
	CP-37T 5001039				LC-4800 5000778		LC-X983 5001039
	CP-300T 5001307				LC-5000 5000776		LC-X984 5001039
	CP-305T 5001307				LC-5200 5000776		LC-X984A 5001039
	CP-306T 5001307				LC-5200 (PAL) 5000776		LC-X985 5001306
	CP-310T 5001307				LC-5300 5000775		LC-X986 5001384
	CP-315T 5001307				LC-5300 (PAL) (U) 5000775		LC-X990 5001039
	CP-320T 5002035				LC-6000 5000779		LC-X999 5001039
	CP-775i 5001445				LC-6000UL 5000779		LC-X999A 5001039
	FP-90T 5000941				LC-6200 5000779		LC-X1100 5001384
	FP-95T 5000843				LC-6210 5000779		LC-XB10 5002035
	FP-97T 5000941				LC-7000 (U) (UE) 5000791		LC-XB15 5002029
	MP-20T 5000918				LC-NB1 (U) (UW) 5000858		LC-XB20 5002029
	MP-25T 5000937				LC-HDT10 5001651		LC-XB22 5002029
	MP-30T 5000937				LC-NB2U 5001040		LC-XB25 5002029
	MP-35T 5000937				LC-NB2UW 5001040		LC-XB26 5002031
	MP-36T 5001039				LC-NB2W 5001040		LC-XB27N 5001657
	MP-37T 5001039				LC-NB3 series 5001307		LC-XB28 5002029
	MP-38T 5001039				(E)(S)(W)		LC-XB30 5002029
	MP-39T 5001384				LC-NB3W 5001307		LC-XC1 5001177
	MP-40T 5001177				LC-NB4 series 5001307		LC-XE10 5002037
	MP-41T 5001306				LC-SB10 5002035		LC-XG100 5001445
	MP-42T 5001384				LC-SB20 5002031		LC-XG110 5002021
	MP-45T 5002023				LC-SB21 5002031		LC-XG200 5001445
	MP385T 5001306				LC-SB22 5001657		LC-XG210 5002021
	SP-5T 5001178				LC-SD10 5002033		LC-XGA860 5000795
	SP-6T 5001178				LC-SD12 5002033		LC-XGA970 5000795
	SP-9T 5001383				LC-SD15 5001658		LC-XGA970 (UE) 5000795
	XP-5T 5001178				LC-SE10 5002037		LC-XGA980U 5000918
	XP-8T 5002022				LC-SM1 5001178		LC-XGA980UE 5000937
CANON					LC-SM2 5001178		LC-XGA982U 5000937
	LV-5100 5001178				LC-SM3 5001383		LC-XM1 5001178
	LV-5110 5001178				LC-SM4 series 5001436		LC-XM2 5001383
	LV-5210 5002031				LC-SVGA860 (U) 5000795		LC-XM4 series 5002022
	LV-5220 5002031				LC-SVGA870U 5000918		LC-XNB1U 5000919
	LV-5300 5000858						
		CHRISTIE					
			Vivid White 5001304				
			Vivid Blue 5001305				
			RR L6 5001305				
			RR L8 5001304				
			LC41 VIVID 5001384				
			LS+58 5001656				
			LW25U 5001306				
			LX20 5001307				
			LX25 5002029				
			LX25A 5002031				
			LX26 VIVID 5001306				
			LX35 VIVID 5001306				
			LX32 5001445				
			LX33 VIVID 5001384				
			LX25 5001306				
			LX40 5001641				
			LX41 5001384				
			LX45-PKG 5002023				
			LX50 5001641				
			LX55 5002063				
			LX65 (RR) 5001442				
			LX66 5001656				
			LX77 5001440				
			LX100 (RR) 5001440				
		DUKANE					
			Image Pro 8945 5001305				
			Image Pro 9058 5001305				
			Image Pro 8020 5000924				
			Image Pro 8020A 5000925				
			Image Pro 8070				
			Image Pro 8767A				
			Image Pro 8775				
		EIKI					
			EIP-1 (Type:L) 5001640				
			Serial #s E03X1009-E03X1308				
			EIP-1 (Type: 03) 5001642				
			Serial #S E03X1309 and up				
			E0391001-E0891008				
			EIP-10V 5001643				

REPLACEMENT LAMPS FOR LCD AND DLP PROJECTORS

Model # Order Code			Model # Order Code			Model # Order Code			Model # Order Code		
EIKI			MEGAPOWER			MITSUBISHI			PROXIMA		
	LC-XNB2U	5001040		Ultrabeam 229	5000791		LVP-XL30U	5002049		Impression A4 Plus	5000925
	LC-XNB2UW	5001040					LVP-XL5900U			Impression A6 Plus	5000925
	LC-XNB2UWM	5001040	MITSUBISHI				LVP-XL5950			LS1	5000858
	LC-XNB3 series	5001307		LVP-AS10	5002053		LVP-XL5U	5002058		LS2	5001040
	LC-XNB3S	5001307					S250	5001046		LX	5000858
	LC-XNB3W	5001307		LVP-AX10	5002053		S290U	5001046		LX2	5001040
	LC-XNB4 series	5001307		LVP-ES100			X200	5000931		Pro AV 9300	5000843
	LC-XNB4S	5001307		LVP-HC1	5002053		X250	5001046		Pro AV 9310	5000843
	LC-XNB4MS	5001307		LVP-HC3			X300	5001046		Pro AV 9320	5000941
	LC-XNB5M	5001471		LVP-S120		NEC				Pro AV 9320L	5000941
	LC-XNB5MS	5001471		LVP-S250U	5002048		HT1000	5002052		Pro AV 9330	5000941
	LC-XT1	5001176		LVP-S290U	5002048		HT1100	5002052		Pro AV 9340	5001305
	LC-XT2	5001304		LVP-S490	5002056		LT60LP (K)	5002052		Pro AV 9350	5001176
	LC-XT3	5001440		LVP-S490U	5002056		LT60LP (K)	5002052		Pro AV 9400	5000843
	X1100	5001384		LVP-S50	5002066		LT140	5001055		Pro AV 9400+	5000941
	X986	5001384		LVP-S50U	5002066		LT220	5002052		Pro AV 9400+L	5000941
	XM4 Series	5002022		LVP-S50UX	5002062		LT240	5002052		Pro AV 9400L	5000843
				LVP-S50UX	5002062		LT240K	5002052		Pro AV 9410	5000941
EPSON				LVP-S51	5002066		LT245	5002052		Pro AV 9440	5001305
	EMP-54C			LVP-S51U	5002066		LT260	5002052		Pro AV 9500	5001305
	EMP-74C			LVP-SA51U	5002062		LT265	5002052		Pro AV 9550	5001305
	EMP-8300i			LVP-SD200U			LT280			Ultralight LS2	5001040
				LVP-SL1	5002053		LT375			Ultralight LSC	5001040
GENERAL ELECTRIC				LVP-SL1U	5002053		LT380			Ultralight LX	
	LCD-15	5000773		LVP-SL2	5002053		MT1045			Ultralight LX2	5001040
	LCD-16	5000773		LVP-SL2U	5002053		MT40LP		RUNCO		
	LCD-12	5000776		LVP-SL4SU	5002058		VT75LP			LCP-500	5000849
	LCD-10	5000793		LVP-X120E			VT470		SANYO		
				LVP-X200			VT670			PLC-100	5000793
IBM				LVP-X200E			VT675			PLC-200N	5000773
	ILV200	5002054		LVP-X250U	5002048		VT676			PLC-220N	5000776
				LVP-X290U	5002048		WT600	5002052		PLC-250N	5000775
				LVP-X300J	5002048	PHILIPS				PLC-300M	5000776
				LVP-X300U	5002048		PXG30	5001445		PLC-320M	5000776
	LP1000	5000929		LVP-X390	5002055		PXG30 Impact	5001445		PLC-350	5000775
	LP1000B	5000930		LVP-X390U	5002055	POLAROID				PLC-350M	5000775
	LP1200	5000931		LVP-X400U	5002055		Polaview 238	5002066		PLC-355M	5000775
	LP210	5000878		LVP-X490	5002056		Polaview 338			PLC-400N	5000777
	LP220	5000878		LVP-X490U	5002056		Polaview 350	5002066		PLC-500M	5000777
	LP225	5000878		LVP-X500	5002056	PROXIMA				PLC-510M	5000777
	LP-260	5001178		LVP-X500U	5002056		DP5600	5000791		PLC-5500 (N) NA)	5000791
	LP-500	5002054		LVP-X50U	5002066		DP5610	5000791		PLC-550M	5000778
	LP-510	5002054		LVP-X51	5002066		DP5900	5000795		PLC-5600N	5000795
	LP-520	5002054		LVP-X51U	5002066		DP5950	5000918		PLC-700M	5000779
	LP-530	5002054		LVP-X70	5002066		DP6105	5002051		PLC-750M	5000779
	LP-5300	5002054		LVP-X70B	5002062		DP-6105	5002051		PLC-755M	5000779
	LP-530D	5002054		LVP-X70BU	5002062		DP-6155	5002051		PLC-8800N	5000795
	LP580	5000923		LVP-X70U	5002066		DP8300	5000776		PLC-8810N	5000795
	LP-690	5002051		LVP-X70U	5002066		DP8400	5000776		PLC-9000 (N) NA)	5000843
	LP720	5000924		LVP-X70UX	5002062		DP9100	5000250		PLC-9000NL	5000843
	LP725	5000925		LVP-X80	5002062		DP9200	5000795		PLC-EF10N (NL)	5000843
	LP730	5000924		LVP-X80U	5002062		DP9210	5000795		PLC-EF10NAZ/L	5000941
	LP735	5000925		LVP-XD200U			DP9240	5001039		PLC-EF10NAZ/L	5000941
	LP740	5000927		LVP-XD300U			DP9250	5000918		PLC-EF10NZ/L	5000941
	LP740B	5000928		LVP-XD350			DP9250+	5000937		PLC-EF12N/NL	5000941
	LP750	5000926		LVP-XD350U			DP9260	5001039		PLC-EF30L	5001305
	LP770	5002048		LVP-XD450U			DP9260+	5001039		PLC-EF30N	5001305
	LS-110	5002054		LVP-XL1	5002053		DP9270	5001306		PLC-EF30NL	5001305
				LVP-XL1U	5002053		DP9280	5001177		PLC-EF31N	5001305
JVC				LVP-XL1XU	5002068		DP9290	5001306		PLC-EF31NL	5001305
	LX-D1000			LVP-XL2	5002068		DP9295	5001384		PLC-EF60	5001656
	LX-D1010	5002066		LVP-XL25	5002049		DP9300	5000843		PLC-SP10N	5000918
				LVP-XL25U	5002049						
MEGAPOWER				LVP-XL2U	5002068						
	Ultrabeam 228	5000791		LVP-XL30	5002049						

REPLACEMENT LAMPS FOR LCD AND DLP PROJECTORS

Model #	Order Code	Model #	Order Code	Model #	Order Code	Model #	Order Code
SANYO		SANYO		TOSHIBA		TOSHIBA	
PLC-SP20N	5000937	PLC-XT16	5002021	TDP-S3	5002054	TLP-570E	
PLC-SU07N	5000858	PLC-XU07N	5000919	TDP-SC25		TLP-570U	
PLC-SU10N	5000858	PLC-XU10N	5000919	TDP-SC25U		TLP-571	
PLC-SU208C	5001040	PLC-XU10NA	5000919	TDP-SW20		TLP-571E	
PLC-SU20E	5001040	PLC-XU20B	5001040	TDP-T250		TLP-571U	
PLC-SU20N	5001040	PLC-XU20N	5001040	TDP-T3	5002054	TLP-620	
PLC-SU22N	5001040	PLC-XU21N	5001040	TDP-T40, T40U		TLP-650	
PLC-SU25	5002035	PLC-XU22N	5001040	TDP-TW300		TLP-650E	
PLC-SU30	5001307	PLC-XU25	5002029	TLP-250	5002065	TLP-650J	
PLC-SU31	5001307	PLC-XU25A	5002031	TLP-250C	5002065	TLP-650U	
PLC-SU32	5001307	PLC-XU30	5001307	TLP-251	5002065	TLP-651	
PLC-SU33	5001307	PLC-XU31	5001307	TLP-251C	5002065	TLP-651E	
PLC-SU35	5001307	PLC-XU32	5001307	TLP-260	5002065	TLP-651J	
PLC-SU37	5001307	PLC-XU33	5001307	TLP-260D	5002065	TLP-651U	
PLC-SU38	5001307	PLC-XU35	5001307	TLP-260M	5002065	TLP-660	
PLC-SU50	5002031	PLC-XU36	5002035	TLP-261	5002065	TLP-660E	
PLC-SU51	5002031	PLC-XU37	5001307	TLP-261D	5002065	TLP-661	
PLC-SU60	5002037	PLC-XU38	5001307	TLP-261M	5002065	TLP-661E	
PLC-SW10	5001178	PLC-XU41	5002029	TLP-450		TLP-670E	
PLC-SW15	5001178	PLC-XU45	5001471	TLP-450E		TLP-670EF	
PLC-SW20	5001436	PLC-XU46	5001471	TLP-450J		TLP-670J	
PLC-SW20AR	5001436	PLC-XU47	5002029	TLP-450U		TLP-670U	
PLC-SW30	5002033	PLC-XU50	5002029	TLP-451		TLP-670UF	
PLC-UF10L	5001304	PLC-XU50A	5002031	TLP-451E		TLP-671E	
PLC-UF15	5001440	PLC-XU55	5002029	TLP-451J		TLP-671EF	
PLC-XF10N/NL	5000941	PLC-XU55A	5002031	TLP-451U		TLP-671J	
PLC-XF10NZ/L	5000941	PLC-XU56	5002031	TLP-470A		TLP-671U	
PLC-XF12N/L	5000941	PLC-XU58	5002029	TLP-470E		TLP-671UF	
PLC-XF20	5001176	PLC-XU60	5002037	TLP-470EF		TLP-680 (681U)	
PLC-XF30L	5001305	PLC-XW15 (N)	5001178	TLP-470J		TLP-680E	
PLC-XF30N	5001305	PLC-XW20	5002022	TLP-470K		TLP-680J	
PLC-XF30NL	5001305	PLC-XW20AR	5002022	TLP-470U		TLP-680U	
PLC-XF31N	5001305	PLV-1N	5000794	TLP-470UF		TLP-681	
PLC-XF31NL	5001305	PLV-20N	5000778	TLP-470Z		TLP-681E	
PLC-XF35N/L	5001442	PLV-60 series	5001177	TLP-471A		TLP-681J	
PLC-XF40L	5001304	PLV-70 (N)	5001306	TLP-471E		TLP-681U	
PLC-XF41	5001304	PLV-HD10	5001651	TLP-471EF		TLP-710	
PLC-XF45	5001440			TLP-471J		TLP-710E	
PLC-XF46	5002063	SHARP		TLP-471K		TLP-710H	
PLC-XF60	5001656	DT-100	5001645	TLP-471U		TLP-710J	
PLC-XP07N	5000937	DT-400	5001650	TLP-471UF		TLP-710U	
PLC-XP10N	5000918	XR-10S	5001648	TLP-471Z		TLP-711	
PLC-XP10NA	5000937	XR-20X	5001649	TLP-510		TLP-711E	
PLC-XP17E	5001039			TLP-510A		TLP-711H	
PLC-XP17N	5001039	SONY WEGA TELEVISIONS		TLP-510E		TLP-711J	
PLC-XP18N	5001039	KF42WE610	5002064	TLP-510J		TLP-711U	
PLC-XP208C	5001039	KF-50WE610	5002064	TLP-510K		TLP-770	
PLC-XP20N	5001039	KF-60WE610	5002064	TLP-510U		TLP-770E	
PLC-XP218C	5001039	KDF-42WE655	5002064	TLP-510Z		TLP-770H	
PLC-XP21N	5001039	KDF-50WE655	5002064	TLP-511		TLP-770J	
PLC-XP30	5001177	KDF-60XBR950	5002064	TLP-511A		TLP-770U	
PLC-XP40 (L)	5001306	KDF-70XBR950	5002064	TLP-511E		TLP-771	
PLC-XP41 (L)	5001384			TLP-511J		TLP-771E	
PLC-XP45 (L)	5001306	SONY		TLP-511K		TLP-771H	
PLC-XP46 (L)	5001384	VPL-X2000	5000858	TLP-511U		TLP-771J	
PLC-XP50	5002023			TLP-511Z		TLP-771U	
PLC-XP51 (L)	5001641	TOSHIBA		TLP-550	5002065	TLP-780	
PLC-XP55	5002023	TDP-D1		TLP-550C	5002065	TLP-780E	
PLC-XP56	5001641	TDP-D2		TLP-551	5002065	TLP-780J	
PLC-XR70N	5000795	TDP-S20		TLP-551C	5002065	TLP-780U	
PLC-XT10	5001445	TDP-S20B		TLP-560	5002065	TLP-781	
PLC-XT10A	5002021	TDP-S21		TLP-560D	5002065	TLP-781E	
PLC-XT11	5002021	TDP-S21B		TLP-561	5002065	TLP-781J	
PLC-XT15	5001445	TDP-S25		TLP-561D	5002065	TLP-781U	
PLC-XT15A	5002021	TDP-S25U		TLP-570		TLP-790	

REPLACEMENT LAMPS FOR LCD AND DLP PROJECTORS

Model #	Order Code	Model #	Order Code
TOSHIBA		TOSHIBA	
TLP-791		TLP-X10C	
TLP-B2		TLP-X10E	
TLP-B2C		TLP-X10J	
TLP-B2E		TLP-X10U	
TLP-B2J		TLP-X11	
TLP-B2S		TLP-X11C	
TLP-B2SE		TLP-X11E	
TLP-B2SU		TLP-X11J	
TLP-B2U		TLP-X11U	
TLP-B2ultra		TLP-X20	
TLP-B2ultraE		TLP-X20C	
TLP-B2ultraU		TLP-X20DC	
TLP-MT4		TLP-X20DE	
TLP-MT4		TLP-X20DJ	
TLP-MT7		TLP-X20DU	
TLP-MT7E		TLP-X20E	
TLP-MT7J		TLP-X20J	
TLP-MT7U		TLP-X20U	
TLP-S10	5002067	TLP-X21	
TLP-S10U	5002067	TLP-X21C	
TLP-S200		TLP-X21DC	
TLP-S201		TLP-X21DE	
TLP-S220		TLP-X21DJ	
TLP-S221		TLP-X21DU	
TLP-S30		TLP-X21E	
TLP-S30M		TLP-X21J	
TLP-S30MU		TLP-X21U	
TLP-S30U		TLP-X4100U	5001384
TLP-S40		TXP-B2	
TLP-S41		TXP-X10	
TLP-S60		TXP-X11	
TLP-S61		TY-G1U	
TLP-S70		TY-G3	
TLP-S70U		TY-G3E	
TLP-S71		TY-G3U	
TLP-S71U		TY-G5	
TLP-S80		TY-G5U	
TLP-S80U		TY-G7	
TLP-S81		TY-G7U	
TLP-S81U			
TLP-T400			
TLP-T401			
TLP-T420			
TLP-T421			
TLP-T50			
TLP-T500			
TLP-T501			
TLP-T50M			
TLP-T50MU			
TLP-T50U			
TLP-T520			
TLP-T521			
TLP-T600			
TLP-T601			
TLP-T60M			
TLP-T61M			
TLP-T620			
TLP-T621			
TLP-T700			
TLP-T701			
TLP-T70M			
TLP-T71M			
TLP-T720			
TLP-T721			
TLP-X10			



Projector Manufacturers are constantly adding new projector models and delisting existing projectors. Because of this, it is strongly recommended that you contact USHIO to confirm cross reference information, availability and price for LCD and DLP Projection Lamps. Call Ushio Customer Service to request updated Cross Reference Information. Information is subject to change without prior notification.

INCANDESCENT PROJECTION LAMPS

SLIDE, FILM AND OPTICAL PROJECTION LAMPS

- Double Contact Bayonet Base - BA15d
- Single Contact Bayonet Base BA15s
- Operate Base Down (except as noted)



Watts	Ushio Ordering Code	Ushio Lamp Code	Volts	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Burn Position	Fig No
				Dia (A)	OAL (B)	LCL (C)						
Double Contact Bayonet Base – BA15d												
30	1000060	BLC	120	35	60.3	34.9	CC-2V	400	2775	50	BD/Hor	1
35	1000260	EAJ	12	20	101.6	47.6	C-8	650	—	300	Any	2
50	1000062	BLX	120	35	60.3	34.9	CC-2V	780	2850	50	BD/Hor	1
75	1000066	BNF	120	35	60.3	34.9	CC-2V	1300	2900	50	BD/Hor	1
75	1000128	CBX/CBS	120	25	79.4	34.9	CC-13	1250	2950	50	BD	3
100	1000130	CDJ	120	25	79.4	34.9	CC-2V	2000	2975	50	BD	3
100	1000132	CEA/CEB/CDK	120	25	78.0	35.0	CC-13	1800	2970	50	BD	3
150	1000049	BEC	120	38	66.7	34.9	CC-2V	3500	3075	25	BD	2
150	1000135	CGP/CFK	120	25	92.1	34.9	CC-13	2900	3100	50	BD	3
200	1000051	BEJ	120	38	66.7	34.9	CC-2V	4600	3100	25	BD	2
300	1000138	CLX/CMB	120	27	104.8	34.9	C-13	7600	3200	25	BD	3
Single Contact Bayonet Base – BA15s												
75	1000100	BXE	10	25	75.0	40.5	C-8	1700	—	100	BD	3
100	1000104	BXT	12	25	79.4	34.9	CBar6	2800	3250	25	BD	4
100	1000065	BMV	120	35	60.3	34.9	CC-13	1860	2950	50	BD/Hor	1
100	1000129	CDD	120	25	79.4	34.9	CC-2V	2000	2975	50	BD	4
100	1000131	CDS/CDX	120	25	79.4	34.9	CC-13	1800	2900	50	BD	4
120	1000133	CEM	120	25	79.4	34.9	CC-13	1950	3000	200	BD	4
150	1000134	CEW	120	25	92.1	34.9	CC-13	2900	3100	50	BD	4
150	1000136	CHK	120	25	92.1	34.9	CC-13	2995	2850	500	BD	4
300	1000137	CLS/CLG	120	27	104.8	34.9	C-13	7700	3200	25	BD	4
300	1000139	CMV/CMT	120	27	104.8	34.9	C-13D	7300	3100	25	BD	4
300	1000151	CYC	120	29.5	81.0	34.9	C-13	7400	3150	25	BD	4

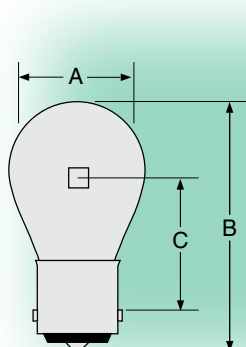


Fig.1

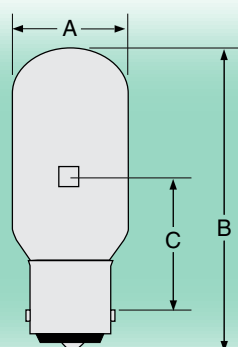


Fig.2

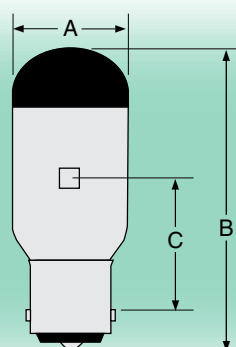


Fig.3

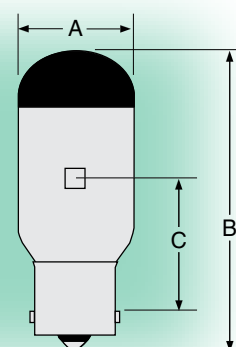


Fig.4

INCANDESCENT PROJECTION LAMPS

● Candelabra Base - E12/15

Mogul Screw Base - E39

Watts	Ushio Ordering Code	Ushio Lamp Code	Volts	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Burn Position	Fig No
				Dia (A)	OAL (B)	LCL (C)						
Mogul Screw Base – E39												
1000	1001611	DKZ	120	164.0	330	241.3	CC-8	28000	3200	750	Any	1
1000	1000213	DPT	120	64.0	230	125.0	C-13	29000	3200	50	BD	2
1000	1000219	DRW	120	64.0	230	125.0	C-13D	27400	3250	25	BD	2

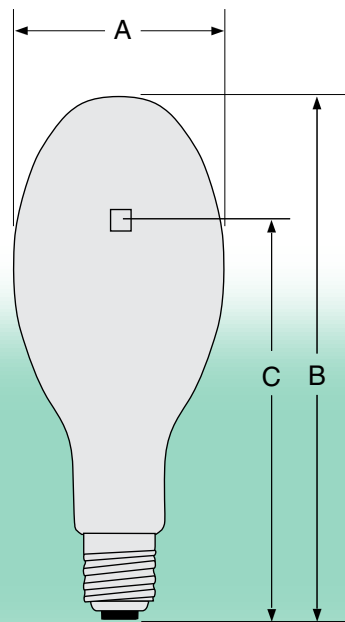


Fig.1

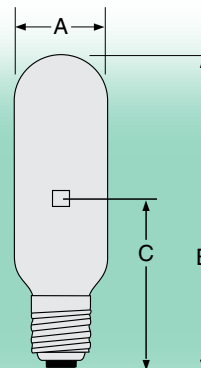


Fig.2

INCANDESCENT PROJECTION LAMPS

- 4-Pin Base - G17q-7
- 1 9/16" (39.7mm), 1 3/4" (44.5mm) Light Center Length
- Proximity and Opaque Reflector Lamps

Watts	Ushio Ordering Code	Ushio Lamp Code	Volts	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Burn Position	Fig No
				Dia (A)	OAL (B)	LCL (C)						
4-Pin Base – G17q-7 - 1 9/16" (39.7mm), 1 3/4" (44.5mm) LCL												
80	1000186	DFE	30	38.0	82.0	39.7	CC-8 ● —	3200	15	BD/Hor	1	
80	1000192	DGB/DMD	30	38.0	85.7	39.7	CC-6 ● —	3200	15	BD	1	
150	1000166	DCH/DJA/DFP	120	25.0	90.5	39.7	CC-6 ○ —	3150	—	BD	1	
150	1000188	DFN/DFC	125	38.0	81.0	39.7	CC-6 ● —	3150	15	Horiz	1	
300	1000119	CAL/CXP	120	32.0	101.6	39.7	C-13 ● —	3200	25	BD	2	
400	1000163	DAT/DAK	120	32.0	103.0	39.7	C-13D ● 10000	3200	25	BD	3	
500	1000164	DAY/DAK	120	32.0	104.0	39.7	C-13D ○ 12500	3200	25	BD	3	
500	1000156	CZA/CZB	120	32.0	101.6	39.7	C-13D ○ —	3300	25	BD	2	
500	1000161	DAH	120	38.0	93.0	44.5	C-13D ● —	3300	200	Horiz	4	
500	1000183	DEK/DFW/DHN	120	38.0	89.0	44.5	C-13D ● —	3200	25	Horiz	4	

- Opaque Reflector
- Proximity Reflector

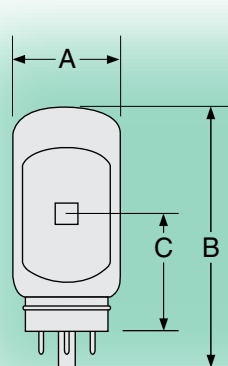


Fig.1

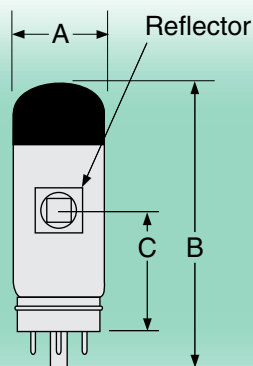


Fig.2

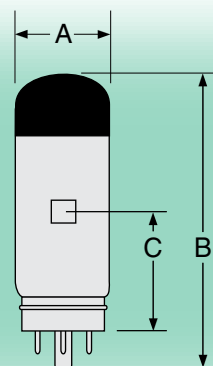


Fig.3

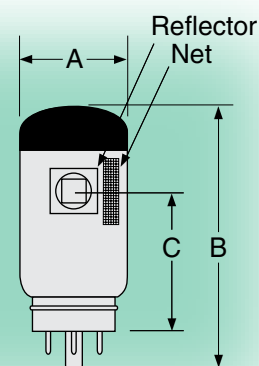


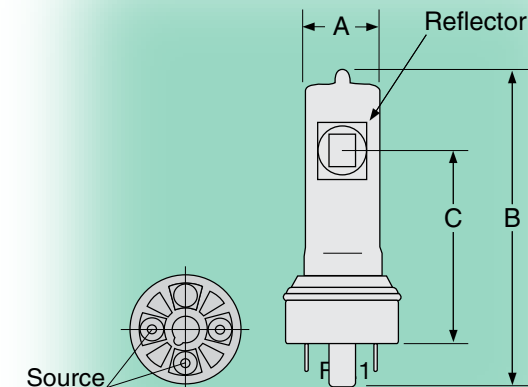
Fig.4

INCANDESCENT PROJECTION LAMPS

- 4-Pin Base - G17t-7
- 1 $\frac{5}{16}$ " (33.4mm) Light Center Length
- Proximity and Opaque Reflector Lamps

Watts	Ushio Ordering Code	Ushio Lamp Code	Volts	Dimensions mm			Filament Type	Color Temp K	Avg Life h	Burn Position	Fig No
				Dia	OAL	LCL					
				(A)	(B)	(C)					
4-Pin Base – G17t-7 - 1 9/16" (39.7mm) LCL											
500	1000047	BCK	120	19.5	88.9	38.7	C-13D 	3250	50	BD/Hor	1

○ Proximity Reflector



INCANDESCENT PROJECTION LAMPS

FILM AND OVERHEAD PROJECTION LAMPS

- Medium Prefocus Base - P28s
- 2 3/16" (55.5mm) and 3 1/2" (88.9mm) Light Center Length
- Medium Screw Base - E26
- 3" (76mm) Light Center Length

Watts	Ushio	Ushio	Volts	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Burn Position	Fig No
	Ordering Code	Lamp Code		Dia	OAL	LCL						
				(A)	(B)	(C)						
Medium Prefocus Base – P28S - 2 3/16" (55.5mm) LCL												
300	1000147	CXK	120	32.0	146	55.6	C-13	7500	3200	25	BD	1
500	1000160	CZX/DAB	120	32.0	146	55.6	C-13D	12500	3200	25	BD	1
500	1000179	DEB	120	38.0	144	88.9	C-13D	9000	2850	800	BU	2
500	1000205	DMX	120	64.0	144	55.5	C-13	13200	3200	50	BD	3
500	1000211	DNW	120	64.0	145	55.5	C-13	10000	3050	500	BD/Hor	3
750	1000053	BFK/BFL	120	64.0	146	55.5	C-13	17500	3100	200	BD	4
750	1000170	DDB/DDW	120	38.0	146	55.6	C-13D	20000	3250	25	BD	1
1000	1000189	DFT	120	38.0	144	55.5	C-13D	27400	3250	25	BD	1
1000	1000217	DRB/DRC	120	64.0	144	55.5	C-13	28000	3250	50	BD	3
1000	1000218	DRS	120	64.0	144	55.5	C-13D	27400	3250	25	BD	3
1000	1000227	DWK	230	64.0	146	55.6	C-13	25000	3100	50	BD	3
Medium Screw Base – E26 - 3" (76mm) LCL												
750	1000169	DCX	120	38.0	139.7	76.2	C-13D	19500	3200	25	BD	5

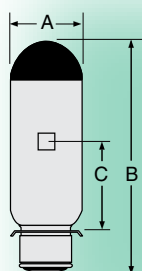


Fig.1

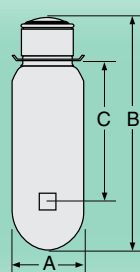


Fig.2

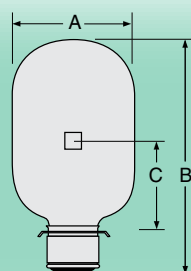


Fig.3

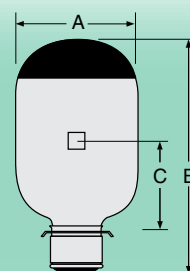


Fig.4

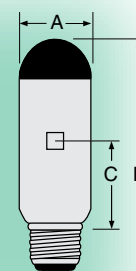


Fig.5

INCANDESCENT PROJECTION LAMPS

- Projection Sound Lamps
- Single Contact Prefocus Base - P30s
- Mogul Prefocus Base - P40s

Watts	Ushio Ordering Code	Ushio Lamp Code	Volts	Amps	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Burn Position	Fig No
					Dia (A)	OAL (B)	LCL (C)						
Single Contact Prefocus Base – P30s													
3	1000070	BRK	4	0.75	16	60	28.5	C-8	30	—	50	Any	1
50	1000148	CXL/CXR	8	—	43	96	47.0	C-6	36	3200	25	BD	2
Mogul Prefocus Base – P40s													
1500	1000221	DTJ	120	—	64	242	87.3	C-13D	42500	3200	25	BD	3

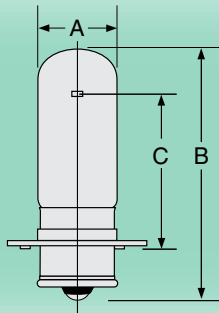


Fig.1

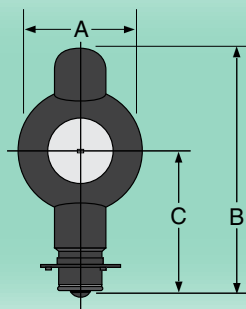


Fig.2

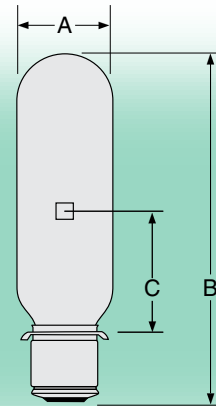
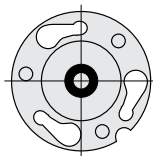


Fig.3



INCANDESCENT PHOTOGRAPHIC ENLARGER LAMPS

- **Single Contact Bayonet Base - BA15s**
- **Medium Screw Base - E26**

Watts	Ushio Ordering Code	Ushio Lamp Code	Volts	Dimensions mm		Approx Lumens lm	Color Temp K	Avg Life h	Burn Position	Fig No
				Dia (A)	OAL (B)					
Single Contact Bayonet Base – BA15s										
75	1001265	PH111A, S-11	125	34.9	60.3	1120	2900	25	BD/Hor	1
Medium Screw Base – E26										
75	1001266	PH140, S-14	120	44.45	125.4	1200	2900	50	Any	2
75	1001267	PH211, A-21	115-125	66.68	176.2	1200	3000	100	Any	3
150	1001268	PH212, A-21	115-125	66.68	176.2	2800	3050	100	Any	3
250	1001269	PH213, A-21 NO.1	115-125	66.68	176.2	7000	3400	3	Any	3

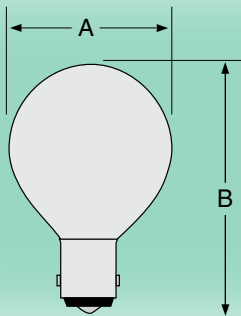


Fig.1

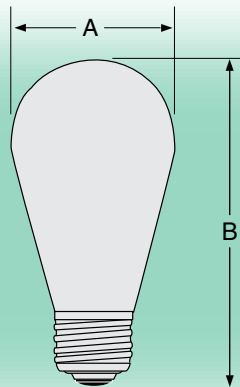


Fig.2

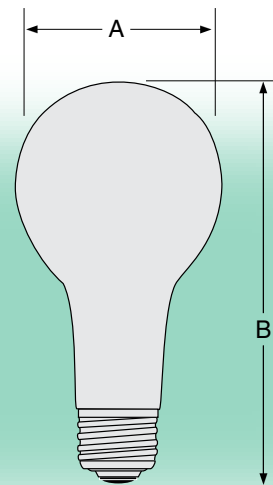


Fig.3

INCANDESCENT PHOTO FLOOD LAMPS

- Medium Screw Base - E26
- Inside Frosted and Blue Bulbs
- 115-120 Volts

Watts	Ushio Ordering Code	Ushio Lamp Code	Volts	Dimensions mm		Approx Lumens lm	Color Temp K	Avg Life h	Burn Position	Application	Fig No
				Dia (A)	OAL (B)						
Medium Screw Base – E26											
250	1000026	BBA, A-21 NO.1	115-125	66.68	125.4	8500	3400	3	Any	Photoflood	1
250	1000046	BCA, A-21 NO. B1 BLUE	115-125	66.68	125.4	5000	4800	3	Any	Photoflood	1
250	1000265	ECA, A-23	120	73.03	152.4	6500	3200	20	Any	Photoflood	1
300	1000024	BAH, INC115V-300W	115	66.68	125.4	9300	3200	20	Any	Photocopy	1
500	1000263	EBV, PS-25 NO.2	115-125	79.38	176.2	17000	3400	6	Any	Photoflood	2
500	1000264	EBW, PS-25 NO. B2/BLUE	115-125	79.38	176.2	10500	4800	6	Any	Photoflood	2
500	1000266	ECT, PS-25 3200K	120	79.38	176.2	13650	3200	60	Any	Photoflood	2

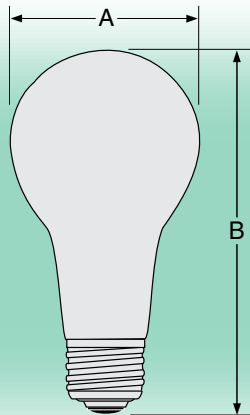


Fig.1

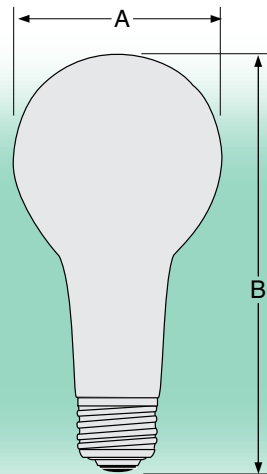


Fig.2

INCANDESCENT PHOTO FLOOD LAMPS

- Medium Screw Base - E26
- 120 Volts



Watts	Ushio Ordering Code	Ushio Lamp Code	Volts	Dimensions mm		Color Temp K	Avg Life h	Burn Position	Fig No
				Dia (A)	OAL (B)				
Medium Screw Base – E26									
500	1000231	DXB, INC120V-500W	120	127.0	168.3	3400	6	Any	1
500	1000262	EAL, INC120V-500W	120	127.0	168.3	3200	15	Any	1

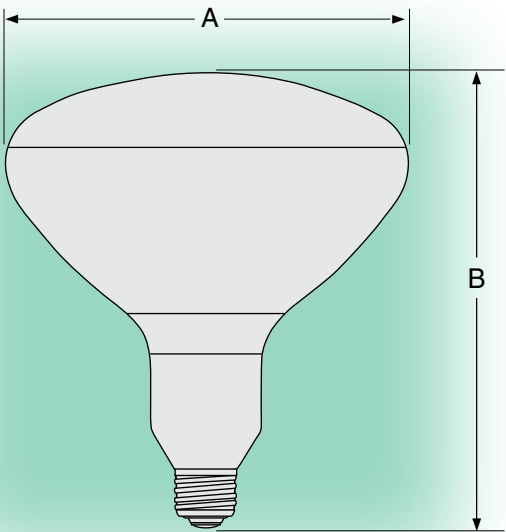


Fig.1

ENTERTAINMENT & PHOTOGRAPHIC FLASH LAMPS CROSS REFERENCE

Lamp Code	Lamp Description	Watts	Volts	Other	System Cross Reference
Entertainment Flash					
5000916	UA-AF1, 1000W, 400V	1000	400		Dataflash HO1
5000177	UA-DF1, 1000W, 400V	1000	400		Dataflash SO1
Photographic Flash					
5000153	UA-20	400	400-450	B-G53	Photogenic H4-6HD Norman 120 Lumedyne #090 (dm15) (FT400)
5000154	UA-20UV	400	400-450	B-G53UV	Photogenic H4-6Hd-UV
5000156	UA-40	400	400-450		Norman 400B
5000157	UA-40UV	400	400-450		Norman 400B-UV



UA-DF1



UA-20



UA-40

QUARTZ HALOGEN LAMPS • DOUBLE ENDED

J SERIES

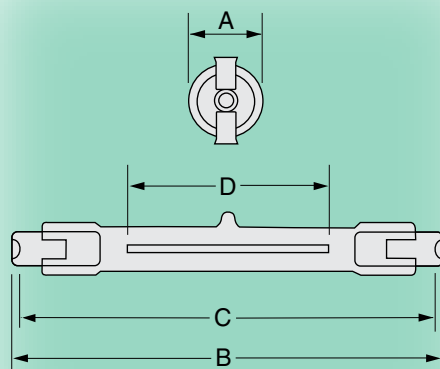
- Only for Use in Approved Enclosed Halogen Fixtures
- Recessed Single Contact
- Compact CC-8 & Linear C-8 Filaments
- Even, Linear Illumination

• T2.5 & T4



Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Avg Life h	Bulb Finish
			Dia (A)	OAL (B)	C-to-C (C)				
R7s-12 Base - OAL ≈ 3 1⁄8" (80.3mm) – T2.5, T4*									
100	1000698	J120V-100W/79MM SHORT	8.0	80.3	74.9	CC-8	1450	1500	Clear
100	1000721	J130V-100W/79MM SHORT	8.0	80.3	74.9	CC-8	1450	1500	Clear
100	1000762	J240V-100W/79MM SHORT	8.0	80.3	74.9	CC-8	1250	1500	Clear
150	1001734	J12V-150WA/80*	12.0	85.5	80.0	C-8	2700	2000	Clear
150	1000701	J120V-150W/79MM SHORT	8.0	80.3	74.9	CC-8	2400	1500	Clear
150	1000723	J130V-150W/79MM SHORT	8.0	80.3	74.9	CC-8	2400	2000	Clear
150	1000751	J230V-150W/79MM SHORT	8.0	80.3	74.9	CC-8	1950	1500	Clear
150	1000765	J240V-150W/79MM SHORT	8.0	80.3	74.9	CC-8	1950	1500	Clear
200	1000703	J120V-200W/79MM SHORT	8.0	80.3	74.9	CC-8	3460	2000	Clear
200	1000705	J120V-200WF/79MM SHORT	8.0	80.3	74.9	CC-8	3400	2000	Frosted
200	1000725	J130V-200W/79MM SHORT	8.0	80.3	74.9	CC-8	3460	2000	Clear
250	1001737	J120V-250WG/83	8.0	—	80.0	C-8	4000	2000	Clear
250	1000707	J120V-250W/79MM SHORT	8.0	80.3	74.9	CC-8	4500	2000	Clear
250	1000773	J240V-250W/79MM SHORT	8.0	80.3	74.9	CC-8	3800	2000	Clear
300	1000709	J120V-300W/79MM SHORT	8.0	80.3	74.9	CC-8	5900	2000	Clear
300	1000727	J130V-300W/79MM SHORT	8.0	80.3	74.9	CC-8	5900	2000	Clear

With greater economy through long life and high output, J series lamps are ideal for flood lighting wide areas for both indoor and outdoor lighting installations.



R7s-12

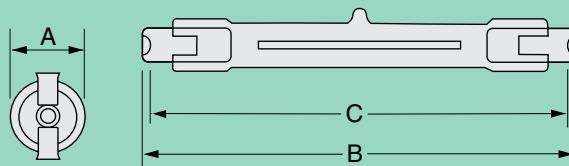
QUARTZ HALOGEN LAMPS • DOUBLE ENDED

J SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- Recessed Single Contact Base - R7s-12
- Compact CC-8 & Linear C-8 Filaments
- T2.5 & T4



Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Bulb Finish
			Dia (A)	OAL (B)	C-to-C (C)					
R7s-12 Base - OAL≈ 4 11⁄16" (119.6mm) – T 2.5										
100	1000697	J120V-100W/119MM LONG	8.0	119.6	114.2	C-8	1450	2750	1500	Clear
100	1000720	J130V-100W/119MM LONG	8.0	119.6	114.2	C-8	1450	2750	1500	Clear
100	1000761	J240V-100W/119MM LONG	8.0	119.6	114.2	C-8	1250	—	1500	Clear
150	1000719	J12V-150WG	8.0	119.6	114.2	C-8	2400	2900	1500	Clear
150	1000700	J120V-150W/119MM LONG	8.0	119.6	114.2	C-8	2400	2800	1500	Clear
150	1000722	J130V-150W/119MM LONG	8.0	119.6	114.2	C-8	2400	2850	1500	Clear
150	1000764	J240V-150W/119MM LONG	8.0	119.6	114.2	C-8	1950	2750	1500	Clear
200	1000704	J120V-200WF/119MM LONG	8.0	119.6	114.2	C-8	2790	—	2000	Frosted
200	1000702	J120V-200W/119MM LONG	8.0	119.6	114.2	C-8	2850	2900	2000	Clear
200	1000724	J130V-200W/119MM LONG	8.0	119.6	114.2	C-8	2850	2900	2000	Clear
200	1000770	J240V-200W/119MM LONG	8.0	119.6	114.2	C-8	3200	2850	1500	Clear
250	1000706	J120V-250W/119MM LONG	8.0	119.6	114.2	C-8	4500	2900	2000	Clear
300	1000777	J24V-300WG	8.0	119.6	114.2	C-8	5000	2900	1500	Clear
300	1000779	J32V-300WG	8.0	119.6	114.2	C-8	5000	2900	1500	Clear
300	1000291	EHM, J120V-300W	8.0	119.6	114.2	C-8	5900	3000	2000	Clear
300	1000296	EHZ, J120V-300WF	8.0	119.6	114.2	C-8	5770	3000	2000	Frosted
300	1000726	J130V-300W/119MM LONG	8.0	119.6	114.2	C-8	5900	—	2000	Clear
300	1000756	J230V-300W	8.0	119.6	114.2	CC-8	4800	2900	2000	Clear
OAL≈ 4 11⁄16" (119.6mm) – T 2.5										
500	1000488	FCL, J120V-500W	8.0	119.6	114.2	C-8	10000	3000	2000	Clear
500	1000497	FCZ, J120V-500WF	8.0	119.6	114.2	C-8	10700	3000	2000	Frosted
500	1000224	DVS, J130V-500WB	8.0	119.6	114.2	C-8	10500	3000	2000	Clear
500	1000736	J220V-500WE	8.0	119.6	114.2	C-8	9500	3000	2000	Clear
500	1000077	BSH, J240V-500WN	10.0	119.6	114.2	C-8	9500	2950	2000	Clear
750	1000738	J220V-750WB1	8.0	119.6	114.2	C-8	16100	3050	1500	Clear
R7s-12 Base - OAL≈ 7 1⁄2" (191.1mm) – T 2.5, T4*										
1000	1000695	J120V-1000WB*	12.0	191.1	185.7	C-8	22000	3000	2000	Clear
1000	1000739	J225V-1000WB	8.0	191.1	185.7	C-8	22000	3050	2000	Clear
1000	1000258	DZX, J240V-1000WB	8.0	191.1	185.7	C-8	22000	3050	2000	Clear



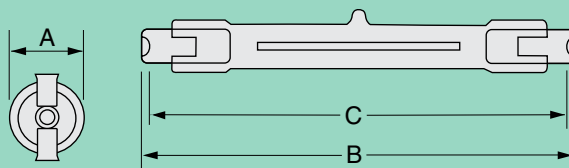
R7s-12

QUARTZ HALOGEN LAMPS • DOUBLE ENDED

J SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- Recessed Single Contact Base - R7s-12
- Operate Horizontal $\pm 4^\circ$
- T2.5

Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Bulb Finish
			Dia (A)	OAL (B)	C-to-C (C)					
OAL ≈ 10 ⁵ / ₆₄ " (256.1mm)										
1000	1000740	J225V-1000WB1	8.0	256.1	250.7	C-8	22000	3050	2000	Clear
1000	1000758	J240V-1000WB1	8.0	256.1	250.7	C-8	2100	3050	2000	Clear
1500	1000699	J120V-1500WB	8.0	256.1	250.7	C-8	35000	3050	2000	Clear
1500	1000750	J230V-1500WB	8.0	256.1	250.7	C-8	35000	3000	2000	Clear
1500	1000243	DYD, J240V-1500WB	8.0	256.1	250.7	C-8	33000	3050	2000	Clear
1500	1000778	J277V-1500WB	8.0	256.1	250.7	C-8	31500	3050	2000	Clear
OAL ≈ 13 ⁷ / ₆₄ " (332.8mm)										
2000	1000766	J240V-2000WB	8.0	332.8	327.4	C-8	44000	3050	2000	Clear
OAL ≈ 13 ⁵ / ₃₂ " (334.4mm)										
2000	1000752	J230V-2000WB	8.0	334.4	322.0	C-8	44000	—	2000	Clear



R7s-12

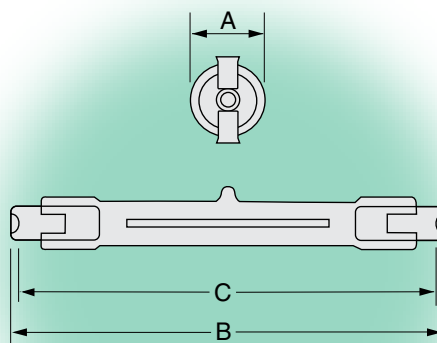
QUARTZ HALOGEN LAMPS • DOUBLE ENDED

JP SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- Recessed Single Contact Base - R7s
- Operate Horizontal $\pm 4^\circ$
- T2.5, T3 & T4



Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Bulb Finish
			Dia (A)	OAL (B)	C-to-C (C)					
OAL ≈ 4 11/16" (119.6mm)										
500	1000502	FDN, JP120V-500WCF6	12.0	119.6	114.2	C-8	12500	3200	400	Frosted
500	1000500	FDF, JP120V-500WC6	12.0	119.6	114.2	C-8	13250	3200	400	Clear
500	1001079	JP120V-500WC7	8.0	119.6	114.0	C-8	13200	3200	25	Clear
500	1001084	JP220V-500WC	12.0	119.6	114.2	C-8	12500	3200	200	Clear
550	1001089	JP225V-550WC	12.0	119.6	115.6	C-8	14000	3200	250	Clear
750	1000327	EMD, JP120V-750WCF	12.0	119.6	114.2	C-8	19500	3200	400	Frosted
750	1000299	EJG, JP120V-750WC	12.0	119.6	114.2	C-8	20600	3200	400	Clear
800	1000329	EMF, JP240V-800WCF	12.0	119.6	114.2	C-8	21400	3200	250	Frosted
800	1000328	EME, JP240V-800WC1UA	12.0	119.6	114.2	C-8	22000	3200	250	Clear
1000	1000489	FCM, JP120V-1000WC1	12.0	119.6	114.2	C-8	27000	3200	300	Clear
1000	1000298	EJD, JP185V-1000WS	12.0	119.6	114.2	C-8	33600	3350	100	Clear
1000	1000533	FHM, JP120V-1000WCF1	12.0	119.6	114.2	C-8	26000	3200	300	Frosted
OAL ≈ 4 23/32" (120.0 mm)										
800	1001096	JP240V-800W	11.0	120.0	114.2	C-8	20000	3200	250	Clear



R7s-12

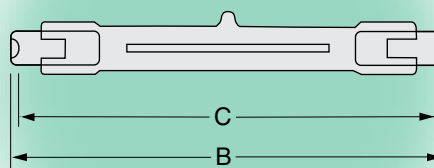
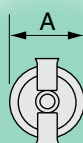
QUARTZ HALOGEN LAMPS • DOUBLE ENDED

JP SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- Recessed Single Contact Base - R7s
- Operate Horizontal $\pm 4^\circ$
- T3 & T4



Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Bulb Finish
			Dia (A)	OAL (B)	C-to-C (C)					
OAL ≈ 5" (127.1mm)										
800	1001081	JP125V-800W	10.0	127.1	121.7	C-8	26000	3400	25	Clear
1000	1001097	JP245V-1000WS	12.0	127.1	121.7	C-8	31000	3400	15	Clear
1000	1001075	JP120V-1000WS	11.0	127.0	121.7	C-8	30000	3400	30	Clear
OAL ≈ 5 5/16" (135.2mm)										
500	1000652	GDA, JP120V-500WC2	12.0	135.2	129.8	C-8	11000	3100	100	Clear
500	1000653	GDA/220V, JP220V-500WC2/UA	12.0	135.2	129.8	C-8	13000	3200	75	Clear
500	1000654	GDA/240V, JP245V-500WC	12.0	135.2	129.8	C-8	11000	3150	100	Clear
OAL ≈ 6 19/32" (167.4mm)										
1000	1000523	FFT, JP120V-1000WC2	12.0	167.4	163.3	C-8	27000	3200	300	Clear
1500	1000529	FGT, JP120V-1500WCF	13.0	167.4	162.0	C-8	40200	3200	400	Frosted
1500	1000499	FDB, JP120V-1500WC	13.0	167.4	162.0	C-8	41200	3200	400	Clear
OAL ≈ 6 21/32" (169.3mm)										
2000	1000524	FFW, JP120V-2000WC	14.0	169.3	163.9	C-8	57000	3200	125	Clear
OAL ≈ 7 9/16" (191.1mm)										
625	1001090	JP225V-625WCL	12.0	191.1	185.7	C-8	15500	3200	200	Clear
625	1001091	JP225V-625WCLF	12.0	191.1	185.7	C-8	15000	3200	200	Frosted
625	1001094	JP240V-625WCL	12.0	191.1	185.7	C-8	15500	3200	200	Clear
650	1001862	JP125V-650WS	12.0	191.1	185.7	C-8	15500	3200	200	Clear
1000	1000310	EKM, JP225V-1000WCL	12.0	191.1	140.0	C-8	25000	3200	200	Clear
1250	1001076	JP120V-1250WCF	12.0	191.1	185.7	C-8	32500	3200	200	Frosted
1250	1001086	JP225V-1250WC1	12.0	191.1	185.7	C-8	33500	3200	200	Clear



R7s-12

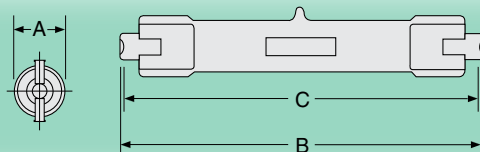
QUARTZ HALOGEN LAMPS • DOUBLE ENDED

JPD SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- Recessed Single Contact Base - R7s-18 Base
- Operate in Any Position



Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Bulb Finish
			Dia (A)	OAL (B)	C-to-C (C)					
Recessed Single Contact Base – R7s-18										
150	1001106	JPD25V-150WG1 fused	15.0	66.7	64.7	CC-8	2700	2900	3000	Clear
200	1000175	DDN, JPD20V-200W	11.0	61.0	54.7	CC-8	5000	3150	100	Clear
300	1000292	EHP, JPD120V-300WG	15.0	80.3	74.9	CC-8	5650	2900	2000	Clear
375	1000230	DWZ, JPD30V-375W	15.0	80.3	74.9	CC-8	7500	3000	1000	Clear
400	1000293	EHR, JPD120V-400WG	15.0	80.3	74.9	CC-8	7750	2900	2000	Clear
400	1000498	FDA, JPD120V-400W	15.0	80.3	74.9	CC-8	10400	3200	200	Clear
420	1000472	FAL, JPD120V-420WC	14.0	66.7	62.0	CC-8	11000	3200	75	Clear
420	1000518	FFM, JPD120V-420WC1	15.0	80.3	74.9	CC-8	11000	3200	75	Clear
600	1000486	FCB, JPD120V-600WD	15.0	95.0	89.6	CC-8	17000	3250	75	Clear
600	1000517	FFJ, JPD120V-600WCG	15.0	66.7	61.3	CC-8	17000	3200	75	Clear
600	1000508	FEA, JPD240V-600WC	15.0	95.0	89.6	CC-8	15000	3200	75	Clear
650	1000229	DWY/FAB, JPD120V-650WS	15.0	80.3	74.9	CC-8	20000	3400	25	Clear
650	1000471	FAD, JPD120V-650WC	15.0	80.3	74.9	CC-8	16500	3200	100	Clear
650	1000482	FBX, JPD120V-650WCF	15.0	80.3	74.9	CC-8	16000	3200	100	Frosted
650	1001103	JPD220V-650WC	15.0	80.3	74.9	CC-8	16300	3200	75	Clear
800	1000238	DXX/220V, JPD220V-800WC1	15.0	80.3	74.9	CC-8	20500	3200	75	Clear
800	1001613	DXV, JPD240V-800WS	15.0	80.3	74.9	CC-8	24800	3400	15	Clear
800	1000240	DXX/240V, JPD240V-800WC	15.0	80.3	74.9	CC-8	20500	3200	75	Clear
1000	1000236	DXW, JPD120V-1000WC5	18.0	95.0	89.6	CC-8	28000	3200	150	Clear
1000	1000234	DXN, JPD120V-1000WS1	18.0	95.0	89.6	CC-8	31000	3400	50	Clear
1000	1000511	FER, JPD120V-1000WC6	19.0	143.5	138.1	CC-8	27500	3200	500	Clear
1000	1000228	DWT, JPD120V-1000WB1	19.0	143.5	138.1	CC-8	23400	3000	2000	Clear
1000	1000068	BRH, JPD120V-1000WC1	18.0	95.0	89.6	CC-8	30000	3350	75	Clear
1000	1000241	DYA, JPD120V-1000WC2	18.0	109.5	104.1	CC-8	28000	3200	200	Clear
1000	1000483	FBY, JPD120V-1000WC5F	18.0	95.0	89.6	CC-8	26000	3200	150	Frosted
1000	1001102	JPD220V-1000WC	18.0	95.0	89.6	CC-8	25000	3200	120	Clear
2000	1000516	FEY, JPD120V-2000WC	29.0	143.5	138.1	CC-8	57000	3200	400	Clear



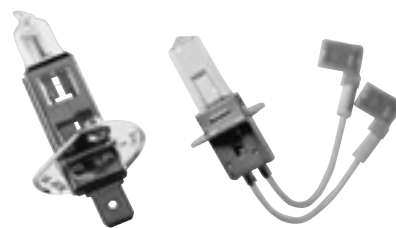
R7s-18



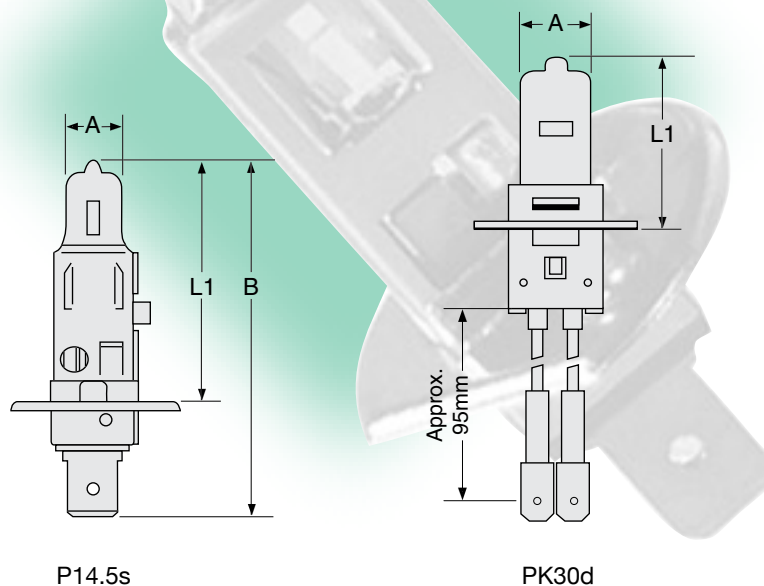
TUNGSTEN HALOGEN LAMPS • SINGLE ENDED

JA & JF SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- P14.5s & PK30d Base
- 13.2 & 28 Volts



Watts	Ushio Ordering Code	Ushio Lamp Code	Volts	Dimensions mm			Filament Type	Luminous Flux lm	Color Temp K	Avg Life h
				Dia (A)	OAL (B)	Length (L1)				
P14.5s Base										
55	1000790	JA12V-55W H1-55	13.2	8.5	67.5	25.25	C-8	1550	3000	150
70	1000800	JA24V-70W	28	8.5	49.0	—	—	1900	—	150
100	1000785	JA12V-100W H1-100	13.2	8.5	67.5	25.25	C-8	2700	3050	50
PK30d Base										
			Amperage							
100	1001062	JF6.6A-100W/PK30D	6.6	13.5	—	40.0	C-6	2400	3000	1000



P14.5s

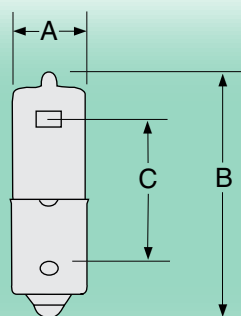
PK30d

HALOGEN LOW VOLTAGE BAYONET

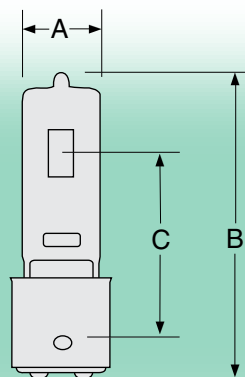
JC SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- Single Contact Bayonet Base - BA9s
Double Contact Bayonet Base - BA15d
- Operate in Any Position

Watts	Ushio	Ushio	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Bulb Finish
	Ordering	Lamp Code	Dia	OAL	LCL					
	Code	(A)	(B)	(C)						
Single Contact Bayonet Base – BA9s										
5	1000832	JC12V-5W/BA9S	9.0	28.0	15.0	C-2R	80	3000	240	Clear
10	1000810	JC12V-10W/BA9S	9.0	28.0	15.0	C-6	200	—	240	Clear
20	1000819	JC12V-20W/BA9S	8.0	30.0	13.5	C-6	340	2900	2000	Clear
Double Contact Bayonet Base – BA15d										
125	1000814	JC12V-125WB/BA15D	15.0	49.0	28.8	C-8	1900	2800	1000	Clear



BA9s



BA15d

HALOGEN LOW VOLTAGE BI-PIN

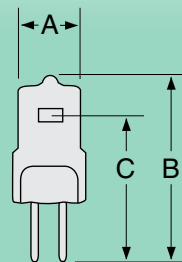
JC SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- Miniature 2-Pin Base - G4
- Operate in Any Position



Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Bulb Finish
			Dia (A)	OAL (B)	LCL (C)					
Miniature 2-Pin Base – G4										
5	1000874	JC6V-5W/G4	9.0	28.0	19.5	C-6	100	3006	50	Clear
5	1000833	JC12V-5W/G4	9.0	28.0	19.5	C-2R	60	2720	2000	Clear
6	1000876	JC6V-6W/G4	9.0	28.0	19.5	C-6	100	3085	100	Clear
6	1000884	JC9V-6W/G4	9.0	28.0	19.5	C-6	100	2998	50	Clear
8	1000878	JC6V-8W/G4	9.0	28.0	19.5	C-6	163	3168	50	Clear
10	1000856	JC6V-10W/G4	9.0	30.0	19.5	C-6	130	2850	2000	Clear
10	1000857	JC6V-10WH3 (64223)	8.0	31.0	19.5	C-6	150	2900	300	Clear
10	1000531	FHD/ESA, JC6V-10W	9.0	30.0	19.5	C-6	200	3200	100	Clear
10	1003030	JC12V-10W/G4	9.0	30.0	19.5	C-6	120	2800	2000	Clear
10	1000811	JC12V-10W/G4	9.0	28.0	19.5	C-2R	140	2900	2000	Clear
10	1000813	JC12V-10WF/G4	9.0	30.0	19.5	C-6	115	2800	2000	Frosted
10	1000812	JC12V-10W/G4	9.0	28.0	19.5	C-2R	175	2916	300	Clear
15	1000861	JC6V-15W/G4	9.0	28.0	19.5	C-6	300	3138	100	Clear
20	1000532	FHE/ESB, JC6V-20W	9.0	30.0	19.5	C-6	450	3200	100	Clear
20	1000866	JC6V-20W/G4	9.0	30.0	19.5	C-6	280	2850	2000	Clear
20	1000821	JC12V-20W/G4	9.0	30.0	19.5	C-6	350	2850	2000	Clear
20	1000804	JC12V-20W/G4	9.0	30.0	19.5	C-8	350	2850	2000	Clear
20	1000820	JC12V-20WF/G4	9.0	30.0	19.5	C-6	330	2900	2000	Frosted
20	1000844	JC24V-20W/G4	9.0	30.0	19.5	C-6	280	2850	2000	Clear
30	1000867	JC6V-30W/G4	9.0	30.0	19.25	C-6	800	3300	50	Clear
35	1000825	JC12V-35WB/G4	9.0	30.0	19.5	C-6	650	2900	2000	Clear

Originally developed as light sources for optical instruments, JC lamps feature an overall compact design with precise LCL placement. The exceptional brightness of this compact lamp make this series an ideal choice for task light applications.



G4

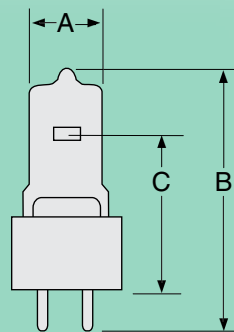
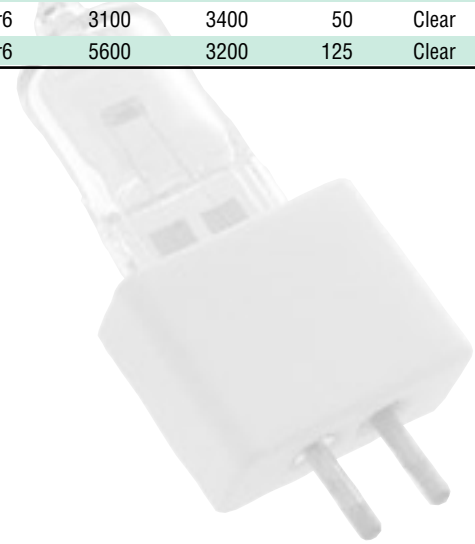
HALOGEN LOW VOLTAGE BI-PIN

JC SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- Miniature 2-Pin Base - G5.3



Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Bulb Finish
			Dia (A)	OAL (B)	LCL (C)					
Miniature 2-Pin Base – G5.3										
30	1000254	DZA, JC10.8V-30W	11.5	51.0	27.0	C-6	600	3100	400	Clear
50	1000837	JC14.5V-50WC	11.5	55.0	32.0	CBar6	1250	3200	100	Clear
100	1000649	GCC, JC12V-100WC5	11.5	57.0	32.0	CBar6	2900	3300	200	Clear
100	1000255	DZB, JC12V-100W	11.5	51.0	27.0	CBar6	3100	3400	50	Clear
175	1000330	EML, JC24V-175W	13.5	57.2	27.0	CBar6	5600	3200	125	Clear



G5.3

HALOGEN LOW VOLTAGE BI-PIN

JC SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- Glass 2-Pin Base - G6.35
- 2-Pin Base - G6.35/15X19

Watts	Ushio	Ushio	Dimensions mm			Filament	Approx	Color	Avg	Burn	Bulb	Fig
	Ordering Code	Lamp Code	Dia (A)	OAL (B)	LCL (C)	Type	Lumens lm	Temp K	Life h	Position	Finish	No
Glass 2-Pin Base – G6.35												
20	1000822	JC12V-20W	11.0	44.0	30.0	C-6	280	2850	2000	Any	Clear	1
30	1000868	JC6V-30WT1	11.5	44.0	28.0	C-6	600	3200	100	Any	Clear	1
35	1000823	JC12V-35W	11.0	44.0	30.0	C-6	650	2900	2000	Any	Clear	1
50	1000071	BRL, JC12V-50W	11.5	44.0	30.0	CBar6	1600	3400	50	BD/Hor	Clear	1
50	1000830	JC12V-50WG1.0	11.0	44.0	30.0	C-6	900	2900	2000	Any	Clear	1
50	1000829	JC12V-50WF	10.5	44.0	30.0	C-6	840	3000	2000	Any	Frosted	1
50	1000848	JC24V-50W	10.5	44.0	30.0	C-6	750	2950	2000	Any	Clear	1
75	1000834	JC12V-75W	11.0	44.0	30.0	C-6	2200	3300	2000	Any	Clear	1
75	1000849	JC24V-75W	10.5	44.0	—	CC-8	—	—	—	Any	Clear	2
100	1000839	JC24V-100W	11.0	44.0	30.0	CC-6	1800	3000	2000	Any	Clear	1
150	1000492	FCS, JC24V-150WUI	13.5	50.0	32.0	CBar6	5000	—	50	BD/Hor	Clear	1
150	1000505	FDV, JC24V-150W	13.5	50.0	30.0	CBar6	4300	3300	100	BD/Hor	Clear	1
150	1000537	FHY, JC24V-150W	13.5	50.0	30.0	CBar6	3700	3100	1000	BD/Hor	Clear	1
250	1000290	EHJ, JC24V-250W	13.5	55.0	33.0	CBar6	8500	3400	50	BD/Hor	Clear	1
250	1000382	EVC/FGX, JC24V-250W	13.0	64.0	35.0	CBar6	8400	3400	300	Any	Clear	1
275	1000588	FNT, JC24V-275W	13.5	55.0	33.0	CBar6	10000	3400	75	BD/Hor	Clear	1
400	1000383	EVD, JC36V-400WS1	16.0	60.0	36.0	CBar6	14500	3450	50	BD/Hor	Clear	1
400	1002141	EVD/L, JC36V-400H1	17.0	60.0	36.0	CBar6	14500	3400	100	BD/Hor	Clear	1
2-Pin Base – G6.35/15X19												
150	1000843	JC24V-150WL-H	13.5	61.0	37.0	CBar6	4800	3400	50	BD/Hor	Clear	3

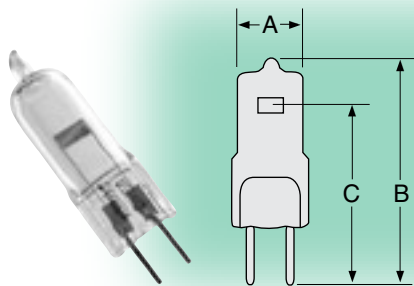


Fig.1

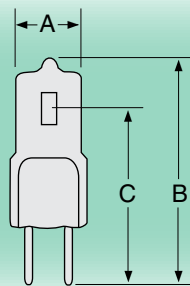


Fig.2

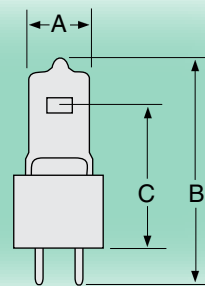


Fig.3



HALOGEN LOW VOLTAGE BI-PIN & BAYONET

JC SERIES

- Only for Use in Approved Enclosed Halogen Fixtures

- Glass 2-Pin Base - GY6.35

2-Pin Prefocus Base - GY9.5



Watts	Ushio	Ushio	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Burn Position	Bulb Finish	Fig No
	Ordering Code	Lamp Code	Dia (A)	OAL (B)	LCL (C)							
Glass 2-Pin Base – GY6.35												
35	1000824	JC12V-35W	11.0	44.0	30.0	C-8	650	2900	2000	BD/Hor	Clear	1
50	1000827	JC12V-50W	11.0	44.0	30.0	C-6	1000	3000	2000	Any	Clear	2
50	1000828	JC12V-50W	11.0	44.0	30.0	C-8	1000	3000	2000	Any	Clear	2
75	1000835	JC12V-75W	11.0	44.0	30.0	C-6	1600	3000	2000	Any	Clear	2
100	1000806	JC12V-100W	11.0	44.0	30.0	C-6	2300	3000	2000	Any	Clear	2
100	1000807	JC12V-100WG	11.0	44.0	30.0	C-8	2300	3000	2000	Any	Clear	1
100	1000381	EVA, JC12V-100H20	11.5	44.0	30.0	CBar6	2400	3000	2000	BD/Hor	Clear	2
100	1000490	FCR, JC12V-100W	11.0	44.0	30.0	CBar6	3400	3300	50	BD/Hor	Clear	2
100	1000507	FDX, JC12V-100WCG2	11.5	44.0	30.0	CBar6	3500	3300	50	Any	Clear	3
300	1000545	FLW, JC24V-300WA-H	13.5	55.0	33.0	CBar6	10450	3500	50	Any	Clear	3
300	1000846	JC24V-300WB	17.5	55.0	23.0	CBar6	6680	6600	1000	Any	Clear	2
2-Pin Prefocus Base – GY9.5												
20	1003049	JC12V-20W	11.0	55.0	30.3	C-6	300	3000	2000	BD/Hor	Clear	4
80	1000171	DDJ/DZZ, JC10V-80W	11.5	51.0	27.0	CBar6	1700	3150	1000	BD/Hor	Clear	4
100	1000459	EYL, JC12V-100WC4	11.5	62.0	36.5	CBar6	2900	3300	50	BD/Hor	Clear	4
100	1000504	FDT, JC12V-100W	11.5	57.0	27.0	CBar6	2900	3300	50	BD/Hor	Clear	4
132	1000176	DDP, JC22V-132W	13.5	57.0	33.4	CBar6	3900	3250	125	BD/Hor	Clear	4
150	1000503	FDS/DZE, JC24V-150W	14.0	57.2	33.4	CBar6	5000	3400	50	BD/Hor	Clear	4

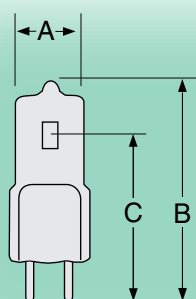


Fig.1

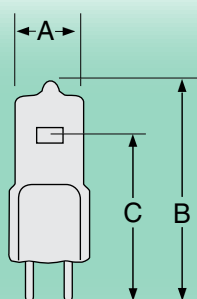


Fig.2

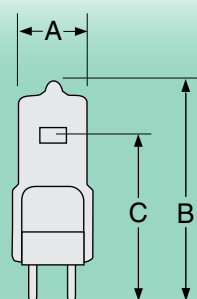


Fig.3

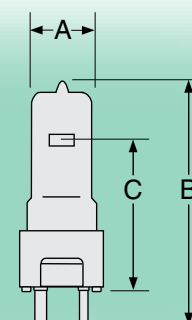


Fig.4

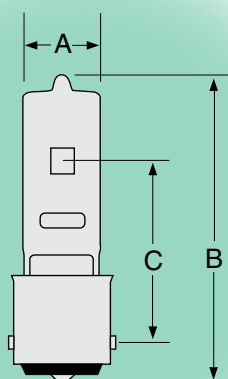
HALOGEN LOW VOLTAGE BI-PIN & BAYONET

JCD SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- Double Contact Bayonet Base - BA15d



Watts	Ushio	Ushio	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Burn Position	Bulb Finish
	Ordering	Lamp Code	Dia	OAL	LCL						
	Code		(A)	(B)	(C)						
Double Contact Bayonet Base – BA15d											
60	1000915	JCD24V-60W	12.5	60.5	35.0	CC-6	1260	—	500	BD/Hor	Clear
75	1000916	JCD24V-75W	11.0	55.0	34.9	CC-6	1600	3100	500	BD/Hor	Clear
75	1000917	JCD28V-75W/WGB	13.5	63.5	35.0	CC-6	1400	2950	2000	BD/Hor	Clear



BA15d

HALOGEN BI-PIN SSTV & AV

JCD SERIES

- Only for Use in Approved Enclosed Halogen Fixtures

Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Burn Position	Bulb Finish	Fig No
			Dia (A)	OAL (B)	LCL (C)							
Miniature 2-Pin Base – G5.3												
200	1000648	GCB, JCD30V-200WC1	11.5	57.0	32.0	CC-6	5300	3200	200	BD/Hor	Clear	1
250	1000453	EYH/FKT, JCD120V-250WB	22.0	63.5	36.5	CC-6	6050	3050	150	BD/Hor	Clear	2
360	1000442	EYB, JCD82V-360W	11.5	57.0	31.8	CC-8	10000	3300	75	BD/Hor	Clear	1
360	1000443	EYB-5, JCD86V-360WS	11.5	57.0	31.8	CC-8	10000	3300	75	BD/Hor	Clear	1
500	1000476	FBG/FBD, JCD120V-500WCP	22.0	76.0	44.5	CC-6	13200	3200	50	BD/Hor	Clear	2
600	1000246	DYH, JCD120V-600WCP	22.0	63.0	36.5	CC-6	17000	3200	75	BD/Hor	Clear	2
650	1000225	DVY, JCD120V-650WSP	22.0	63.0	36.5	CC-6	20000	3400	25	BD/Hor	Clear	2
Glass 2-Pin Base – G6.35												
100	1000892	JCD120V-100W/A	13.5	50.0	30.0	CC-6	2000	3000	150	BD/Hor	Clear	3
150	1000371	ESY, JCD100V-150WB	13.5	50.0	33.0	CC-6	3300	3075	200	BD/Hor	Clear	4
150	1000893	JCD120V-150WB	14.0	50.0	30.0	CC-6	3200	3075	100	BD/Hor	Clear	4
300	1000216	DRA, JCD120V-300W	16.0	50.0	33.0	CC-6	6900	3100	300	BD/Hor	Clear	3
300	1002253	JCD220V-300W	22.0	65.0	37.0	2CC-8	7200	3150	50	BD/Hor	Clear	4
2-Pin Base – G6.35/15x19												
300	1000900	JCD120V-300WL	22.0	63.0	37.0	CC-6	7500	3200	150	BD/Hor	Clear	6
500	1000904	JCD120V-500WL	22.0	63.5	36.5	CC-6	13000	3200	100	BD/Hor	Clear	6
650	1000890	JCD100V-650WL	22.0	63.0	37.0	CC-6	17750	3200	150	BD/Hor	Clear	6
650	1000907	JCD120V-650WL	22.0	63.0	37.0	CC-6	17750	3200	150	BD/Hor	Clear	6
2-Pin Base – GX6.35												
300	1001762	JCD120V-300W (ref. 64514)	19.5	57.5	37.0	Special	7700	3200	75	BD/Hor	Clear	4

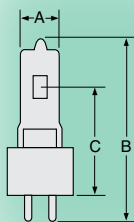


Fig.1

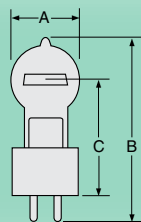


Fig.2

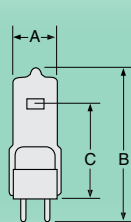


Fig.3

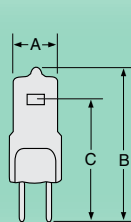


Fig.4

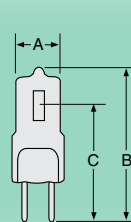


Fig.5

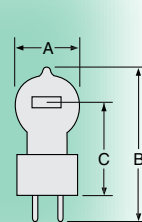


Fig.6

HALOGEN BI-PIN SSTV & AV

JCD SERIES

• Only for Use in Approved Enclosed Halogen Fixtures

• Clear Bulb Finish

• 2-Pin Base - GY6.35

2 Button Base - G9.5

Medium Prefocus 2-Pin Base - GY9.5

Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Burn Position	Fig No
			Dia (A)	OAL (B)	LCL (C)						
2-Pin Base – GY6.35											
35	1000902	JCD120V-35W	11.0	55.0	38.0	CC-2V	500	2800	1500	BD/Hor	1
50	1000905	JCD120V-50W	11.0	55.0	38.0	CC-2V	700	2800	1500	BD/Hor	1
75	1000908	JCD120V-75W	11.5	55.0	38.0	CC-8	1100	2850	1500	BD/Hor	2
2 Button Base – G9.5											
600	1000248	DYP, JCD120V-600WM	22.0	60.0	21.9	CC-6	17000	3200	75	BD/Hor	3
Medium Prefocus 2-Pin Base – GY9.5											
150	1000309	EKL, JCD21V-150W	11.5	51.0	27.0	CC-6	4650	3350	40	BD/Hor	4
250	1000245	DYG, JCD30V-250WS	19.9	63.5	36.5	CC-6	8000	3400	15	BD/Hor	4
300	1000886	JCD100V-300WC	22.0	63.0	36.5	CC-6	7500	3200	150	BD/Hor	5
420	1000304	EKB, JCD120V-420WC	22.0	63.0	36.5	CC-6	11000	3200	75	BD/Hor	5
500	1000629	FTK, JCD120V-500WCT	22.0	65.3	36.5	CC-6	13500	3100	200	BD/Hor	4
500	1000914	JCD240V-500WC	24.0	62.0	36.5	2CC-8	12500	3200	50	BD/Hor	6
600	1000251	DYS/DYV/BHC, JCD120V-600WC	22.0	63.0	36.5	CC-6	17000	3200	75	BD/Hor	5
600	1000252	DYS-5, JCD125V-600WC	22.0	63.0	36.5	CC-6	13750	3200	75	BD/Hor	5
650	1000305	EKD, JCD120V-650WS	19.9	66.0	36.5	CC-6	20000	3400	25	BD/Hor	5
650	1000249	DYR/220V, JCD220V-650WC1	24.0	63.0	36.5	2CC-8	16500	3200	50	BD/Hor	6
650	1000250	DYR/240V, JCD240V-650WC2	24.0	63.0	36.5	2CC-8	16500	3200	50	BD/Hor	6
800	1000909	JCD120V-800WC	24.0	62.0	36.5	CC-6	19500	3200	75	BD/Hor	5

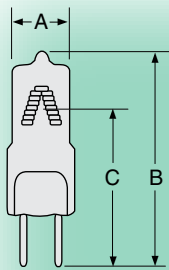


Fig.1

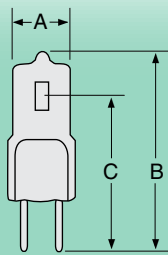


Fig.2

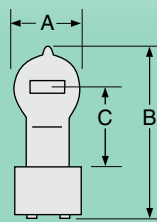


Fig.3

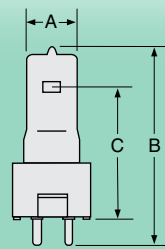


Fig.4

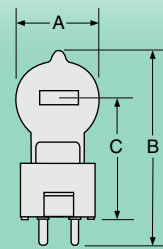


Fig.5

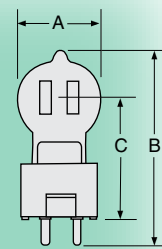


Fig.6

JCD - JCP SERIES

- Only for Use in Approved Enclosed Halogen Fixtures

- Medium Prefocus 2-Pin Base - GY9.5/15x19

GY9.5/16X21, GY9.5/16X24 & G22 Base

Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Burn Position	Fig No
			Dia (A)	OAL (B)	LCL (C)						
Medium Prefocus 2-Pin Base – GY9.5/15x19											
300	1000896	JCD120V-300WC	22.0	63.5	36.5	CC-6	7500	3200	100	BD/Hor	1
Medium Prefocus 2-Pin Base – GY9.5/16x21											
300	1000912	JCD230V-300WC	24.0	63.5	36.5	2CC-8	7050	3150	75	BD/Hor	2
500	1000903	JCD120V-500WC	22.0	62.0	36.5	CC-6	13000	3200	100	BD/Hor	1
650	1000889	JCD100V-650WC	22.0	63.0	36.5	CC-6	17750	3200	150	BD/Hor	1
650	1000906	JCD120V-650WC	22.0	63.0	36.5	CC-6	17750	3200	75	BD/Hor	1
GY9.5/16X24 Base											
650	1002110	JCP100V-650WCC	19.5	76.0	36.5	C-13D	18750	3300	75	BD/Hor	3
G22 Base											
2000	1000910	JCD220V-2000WC	40.0	165	100	2CC-8	50000	3200	200	BD/Hor	4

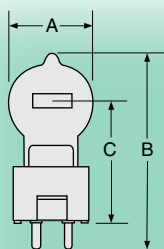


Fig.1

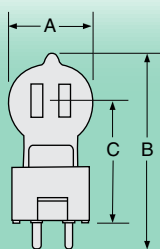


Fig.2

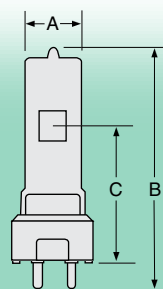


Fig.3

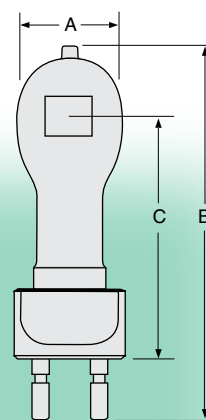


Fig.4

JCS SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- 4-Pin Base
- Standard Voltage (120 volts)
- Monoplane Filament

Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Burn Position	Fig No
			Dia (A)	OAL (B)	LCL (C)						
4-Pin Base – G17T-7											
1200	1000072	BRN, JCS120V-1200W	23.0	95.0	38.7	C-13D 	—	3350	20	BD/Hor	1
1200	1000082	BTG, JCS120V-1200W	23.0	95.0	39.7	C-13D 	38200	3350	20	BD	1

 Proximity Reflector

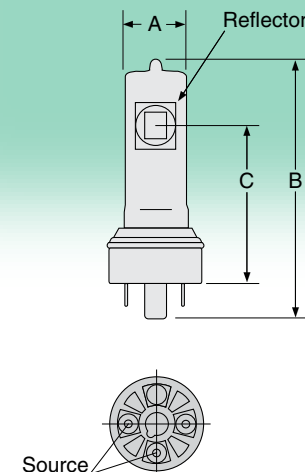


Fig.1

JCS SERIES

• Only for Use in Approved Enclosed Halogen Fixtures

Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Burn Position	Fig No
			Dia (A)	OAL (B)	LCL (C)						
Medium 2-Pin Base – G9.5											
575	1003229	GLA/HP-601, JCS115V-575WX	20.0	101.6	60.0	C-13D	12500	3100	1500	Any	1
600	1000665	GLC/HP-600, JCS115V-600WCM	20.0	101.6	60.0	C-13D	15600	3200	300	Any	1
Medium Prefocus 2-Pin Base – GX9.5											
1000	1000948	JCS120V-1000WCGXW (CP24)	36.0	110.0	55.0	C-13D	26000	3200	200	Any	2
Medium Prefocus 2-Pin Base – GY9.5											
300	1000540	FKW, JCS120V-300WC/UA	23.0	90.4	46.5	C-13	7800	3200	200	Any	3
500	1000285	EHA, JCS120V-500W	19.5	76.0	36.5	C-13D	—	3200	75	BD/Hor	4
500	1000603	FRG, JCS120V-500WC1	23.0	90.4	46.5	C-13D ○	13000	3200	150	Any	3
575	1003326	JCS120V-575WC	25.0	90.0	46.5	8-C-13D	15500	3200	300	BD	3
575	1003327	JCS120V-575WX	25.0	90.0	46.5	8-C-13D	12000	3200	1500	BD	3
625	1000089	BVE, JCS120V-625W	19.5	89.0	44.5	C-13D	—	3350	75	BD/Hor	4
650	1000604	FRK, JCS120V-650WC/UA	22.5	90.4	46.5	C-13D ○	17500	3200	200	Any	3
900	1000088	BVA, JCS120V-900W	23.0	95.0	44.5	C-13D	—	3300	75	BD/Hor	3
Medium Prefocus 2-Pin Base – GY9.5 / 16x24											
650	1000947	JCS100V-650WCC	19.0	72.0	36.5	C-13D ○	17000	3200	100	BD/Hor	5

○ Proximity Reflector

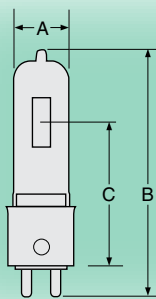


Fig.1

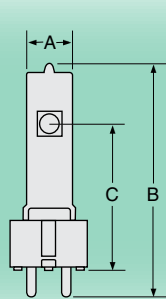


Fig.2

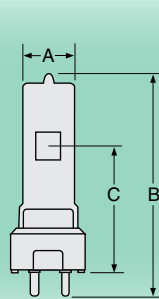


Fig.3

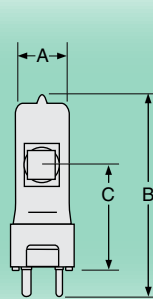


Fig.4

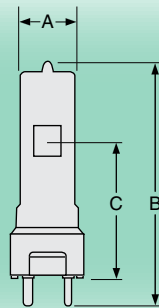


Fig.5

HALOGEN PREFOCUS BAYONET • SSTV

JCS SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- Medium Prefocus Base - P28s
- Mogul Prefocus Base - P40s
- 120 Volts



Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Burn Position	Fig No
			Dia (A)	OAL (B)	LCL (C)						
Medium Prefocus Base – P28s											
500	1000083	BTL, JCS120V-500WBP28	19.5	127.0	55.5	C-13D	11000	3050	500	BD/Hor	1
500	1000084	BTM, JCS120V-500WCP28	19.5	127.0	55.5	C-13D	13000	3200	100	BD/Hor	1
500	1000208	FMC/DNS, JCS120V-500WB2P28	19.5	156.0	88.9	C-13D	11000	3050	500	Any	2
750	1000085	BTN, JCS120V-750WBP28	23.0	127.0	55.5	C-13D	17000	3050	500	BD/Hor	1
750	1000086	BTP, JCS120V-750WCP28	23.0	127.0	55.5	C-13D	20000	3200	200	BD/Hor	1
750	1000209	FMD/DNT, JCS120V-750WB2P28	23.0	156.0	88.9	C-13D	17000	3050	500	Any	2
1000	1000087	BTR, JCS120V-1000WCP28	23.0	127.0	55.5	C-13D	28500	3200	250	BD/Hor	1
1000	1000210	FME/DNV, JCS120V-1000WC2P28	23.0	156.0	88.9	C-13D	27500	3200	200	Any	2
Mogul Prefocus Base – P40s											
1000	1000091	BVT, JCS120V-1000WBP40	23.0	178.0	100.0	C-13D	23000	3050	500	Any	3
1000	1000092	BVV, JCS120V-1000WCP40	23.0	178.0	100.0	C-13D	27500	3200	200	Any	3
1000	1000214	DPW, JCS120V-1000W	64.0	241.3	87.3	C-13	2800	3200	50	BD	6
1500	1000145	CWZ, JCS120V-1500W	35.0	190.0	100.0	C-13D	38500	3200	325	Any	4
1500	1000220	DTA, JCS120V-1500WCP40	25.0	203.0	87.3	C-13D	39000	3200	100	BD	5
2000	1000093	BVW, JCS120V-2000WCP40	35.0	203.2	100.0	C-13	57500	3200	300	Any	5

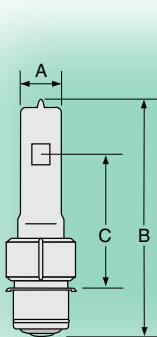


Fig.1

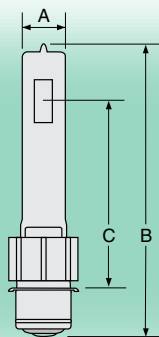


Fig.2

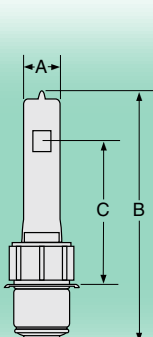


Fig.3

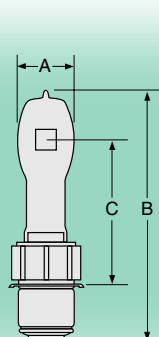


Fig.4

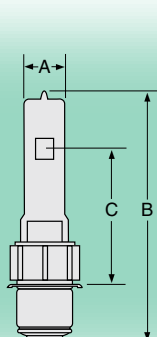


Fig.5

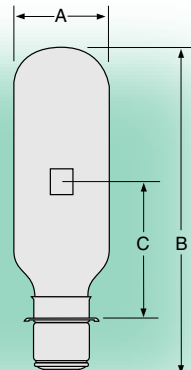


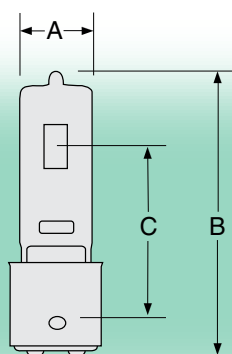
Fig.6

TUNGSTEN HALOGEN LAMPS • SINGLE ENDED BAYONET

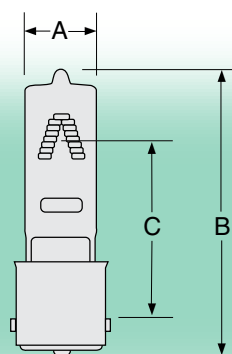
JCV SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- Double Contact Bayonet Base - BA15d
- Operate in any position
- 120 Volts (except as noted)

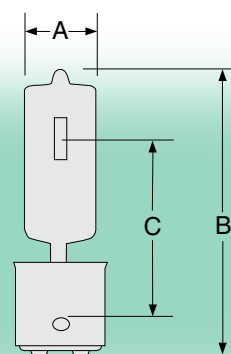
Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Bulb Finish
			Dia (A)	OAL (B)	LCL (C)					
Double Contact Bayonet Base – BA15d										
75	1000986	JCV120V-75WGB	12.0	59.0	35.0	CC-8	1200	2800	1000	Clear
75	1000987	JCV120V-75WGBF	14.0	72.0	35.0	CC-8	1125	2850	1000	Frosted
100	1000968	JCV120V-100WGB	13.0	62.0	35.0	CC-8	1600	2800	2000	Clear
100	1000969	JCV120V-100WGBF	13.0	62.0	35.0	CC-8	1550	2800	2000	Frosted
100	1000364	ESR, JCV120V-100WGB2	13.0	62.0	35.0	CC-2V	1800	2850	750	Clear
100	1000374	ETD, JCV120V-100WGB2F	13.0	62.0	35.0	CC-2V	1750	2850	750	Frosted
150	1000373	ETC, JCV120V-150WGB	13.0	62.0	35.0	CC-8	2800	2900	2000	Clear
150	1000362	ESP, JCV120V-150WGB2	13.0	62.0	35.0	CC-2V	2800	2900	1000	Clear
150	1000376	ETF, JCV120V-150WGBF	13.0	62.0	35.0	CC-8	2700	2900	2000	Frosted
200	1000512	FEV, JCV120V-200WCB2	13.0	62.0	35.0	CC-2V	5500	3200	50	Clear
200	1001803	JCV230V-200WGB	15.0	63.0	35.1	CC-8	5000	2800	2000	Clear
250	1000365	ESS, JCV120V-250WGB	13.0	76.0	41.0	CC-8	5000	3000	2000	Clear
250	1000372	ETB, JCV120V-250WGBF	13.0	76.0	41.0	CC-8	4800	3000	2000	Frosted
250	1000990	JCV130V-250WGBF	13.0	76.0	41.0	CC-8	4800	3000	2000	Frosted
500	1000979	JCV120V-500WGB	13.0	87.0	54.0	CC-8	10450	2950	2000	Clear
500	1000980	JCV120V-500WGBF	13.0	87.0	54.0	CC-8	10100	2950	2000	Frosted



BA15d



BA15d



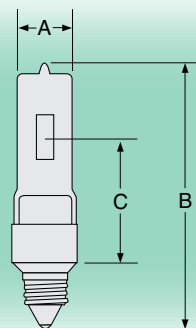
Side View

TUNGSTEN HALOGEN LAMPS • SINGLE ENDED SCREW BASE

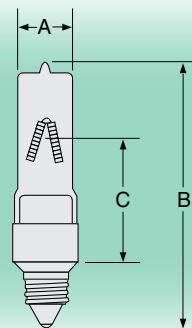
JCV SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- Minican Screw Base - E11
- Operate in any position
- 120 Volts (except as noted)

Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Bulb Finish
			Dia (A)	OAL (B)	LCL (C)					
Mini Candelabra Base – E11										
75	1000989	JCV120V-75WGSNF	12.0	65.0	32.0	CC-8	1170	2850	1000	Frosted
75	1000988	JCV120V-75WGSN	12.0	69.0	32.0	CC-8	1125	2800	1000	Clear
100	1000970	JCV120V-100WGSN	14.0	69.0	32.0	CC-8	1600	2850	1000	Clear
100	1000971	JCV120V-100WGSNF	14.0	69.0	32.0	CC-8	1550	2800	2000	Frosted
100	1000361	ESN, JCV120V-100WGSN2	13.0	71.0	35.0	CC-2V	1800	2850	750	Clear
100	1000375	ETE, JCV120V-100WGSN2F	13.0	71.0	35.0	CC-2V	1750	2850	750	Frosted
150	1000377	ETG, JCV120V-150WGSN	13.0	71.0	35.0	CC-8	2800	2900	2000	Clear
150	1000378	ETH, JCV120V-150WGSNF	13.0	71.0	35.0	CC-8	2700	2900	2000	Frosted
150	1000359	ESL, JCV120V-150WGSN2	13.0	71.0	35.0	CC-2V	2800	2900	1000	Clear
250	1000294	EHT, JCV120V-250WGSN	13.5	80.0	41.3	CC-8	5000	3000	2000	Clear
250	1000360	ESM, JCV120V-250WGSNF	13.0	80.0	41.0	CC-8	4800	3000	2000	Frosted
250	1000991	JCV130V-250WGSN	13.0	80.0	41.0	CC-8	5000	3000	2000	Clear
250	1001809	JCV130V-250WGSNF	13.0	80.0	41.0	CC-8	4850	3000	2000	Frosted
300	1000961	JCV100V-300WGS	15.0	78.0	42.0	CC-8	4650	2850	3000	Clear
300	1001813	JCV120V-300WGS	15.0	78.0	42.0	CC-8	4650	2950	1500	Clear



E11



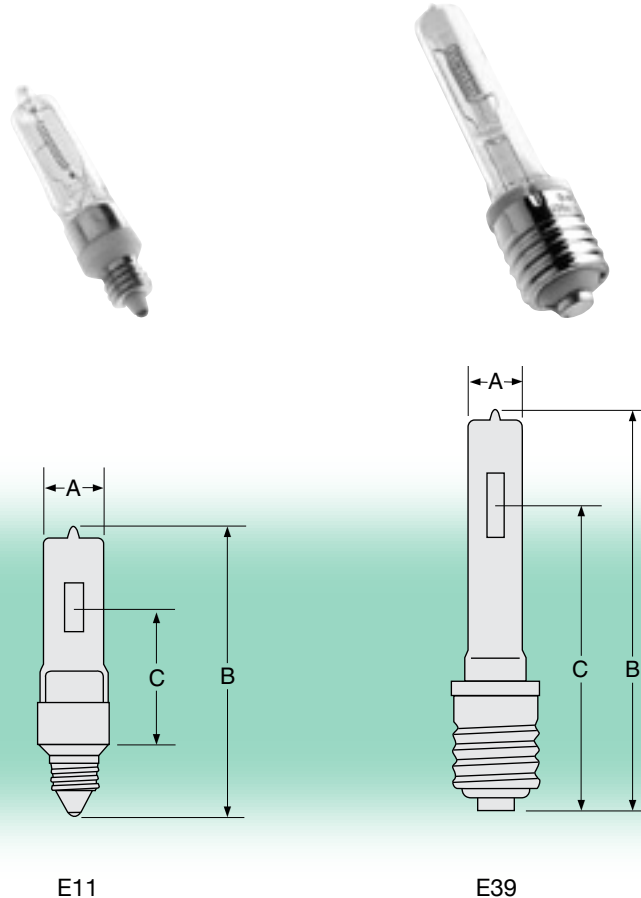
E11

TUNGSTEN HALOGEN LAMPS • SINGLE ENDED SCREW BASE

JCV SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- Minican Screw Base - E11
Mogul Screw Base - E39
- 120 Volts (except as noted)

Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Bulb Finish	
			Dia (A)	OAL (B)	LCL (C)						
Mini Candelabra Base – E11											
325	1000295	EHV, JCV120V-325WBS	13.0	80.0	41.0	CC-8	7800	3100	500	Clear	
400	1000976	JCV120V-400WGSN	13.0	92.0	51.0	CC-8	8250	2950	2000	Clear	
400	1000977	JCV120V-400WGSNF	13.0	92.0	51.0	CC-8	7850	2950	2000	Frosted	
500	1000384	EVR, JCV120V-500WGS	13.0	92.0	51.0	CC-8	10450	2950	2000	Clear	
500	1000466	EYX, JCV120V-500WGSF	13.0	92.0	51.0	CC-8	9500	3000	2000	Frosted	
500	1000465	EYW, JCV130V-500WGS	13.0	92.0	51.0	CC-8	10000	3000	2000	Clear	
500	1000464	EYV, JCV130V-500WGSF	13.0	92.0	51.0	CC-8	9500	3000	2000	Frosted	
500	1000995	JCV230V-500WGS	13.0	92.0	50.8	CC-8	9000	2950	2000	Clear	
750	1000463	EYT, JCV120V-750WB1	13.0	95.0	51.0	CC-8	18500	3050	500	Clear	
1000	1000967	JCV120V-1000WC3	13.5	100.0	51.0	CC-8	26000	3200	300	Clear	
Mogul Screw Base – E39											
2000	1000095	BWF, JCV120V-2000W	25.0	190.5	133.4	CC-8	59000	3200	500	Clear	
2000	1000096	BWG, JCV120V-2000W	25.0	190.5	133.4	CC-8	57200	3200	500	Frosted	



TUNGSTEN HALOGEN LAMPS • SINGLE ENDED

JCV SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- Miniature 2-Pin Base - G5.3
Glass 2-Pin Base - G6.35, GX6.35

Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Burn Position	Fig No
			Dia (A)	OAL (B)	LCL (C)						
Miniature 2-Pin Base – G5.3											
125	1000605	FSH, JCV120V-125WB	11.5	57.0	32.0	CC-8	2500	3000	200	BD/Hor	1
250	1000647	GCA, JCV120V-250WC	11.5	57.0	32.0	CC-8	5880	3200	200	BD/Hor	1
Glass 2-Pin Base – G6.35											
250	1000343	EPL, JCV30V-250WS1	10.0	50.0	24.5	CC-8	7500	3400	6	Any	2
Glass 2-Pin Base – GX6.35											
300	1000974	(FNS) JCV120V-300WC (64512)	16.0	57.5	30.0	CC-8	8100	3200	30	BD/Hor	3
650	1000983	JCV120V-650WC	24.0	57.5	30.0	2CC-8	1700	3200	100	BD/Hor	4
1000	1001822	JCV120V-1000WC4	23.0	67.5	38.0	2CC-8	27000	3200	100	BD/Hor	4

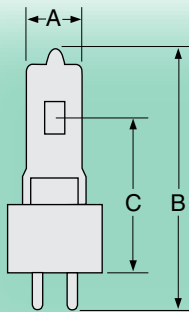


Fig.1

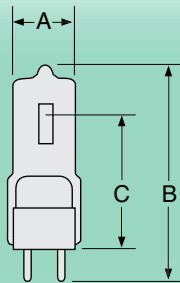


Fig.2

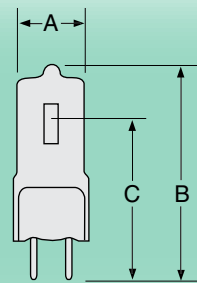


Fig.3

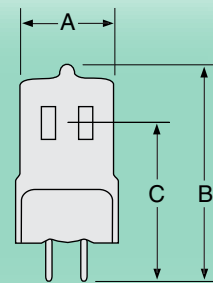


Fig.4

TUNGSTEN HALOGEN LAMPS • SINGLE ENDED

JCV SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- Medium 2-Pin Base - G9.5
Medium Prefocus 2-Pin Base - GY9.5, GZ9.5

Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Burn Position	Fig No
			Dia (A)	OAL (B)	LCL (C)						
Medium 2-Pin Base – G9.5											
400	1003023	HX-401, JCV115V-400WBM	19.0	104.0	60.3	CC-8	8500	3050	1500	Any	1
400	1003022	HX-400, JCV115V-400WCM	19.0	104.0	60.3	CC-8	10000	3200	300	Any	1
500	1000286	EHC/EHB, JCV120V-500WCM	13.5	101.0	60.3	CC-8	12700	3200	300	Any	2
500	1000287	EHD, JCV120V-500WBH	13.5	101.0	60.3	CC-8	10000	3000	2000	Any	2
500	1001814	JCV220V-500WBM	15.0	102.0	60.3	CC-8	10500	3000	400	Any	2
500	1000997	JCV240V-500WBM	15.0	102.0	60.3	CC-8	10500	3000	400	Any	2
575	1000543	FLK, HX-600, JCV115V-575WCM	18.0	104.0	60.5	CC-8	16500	3200	300	Any	1
575	1002196	HX-601, JCV115V-575WBM	19.0	104.0	60.3	CC-8	12800	3050	1500	Any	1
700	1000998	JCV240V-700WCH	19.5	102.0	60.3	CC-8	18000	3200	350	Any	2
750	1000288	EHF, JCV120V-750WCH	15.0	104.0	60.3	CC-8	20400	3200	300	Any	2
750	1000289	EHG, JCV120V-750WBH	19.0	104.0	60.3	CC-8	15400	3000	2000	Any	2
1000	1000494	FCV, JCV120V-1000WCF	19.0	104.0	60.3	CC-8	26500	3200	300	Any	2
1000	1000509	FEL, JCV120V-1000WCH	19.0	104.0	60.3	CC-8	27500	3200	375	Any	2
1000	1000510	FEP, JCV240V-1000WCH	19.0	104.0	60.3	CC-8	25500	3200	300	Any	2
1200	1000972	JCV120V-1200WCH	22.0	104.0	60.3	CC-8	33000	3250	200	Any	2
Medium Prefocus 2-Pin Base – GY9.5											
600	1000547	FMR, JCV120V-600WGY	17.0	88.9	50.8	CC-8	12500	3000	2000	BD/Hor	3
Medium Prefocus 2-Pin Base – GZ9.5											
300	1000578	FNA, JCV120V-300WGY	16.0	88.9	50.8	CC-8	5800	3000	2000	BD/Hor	4

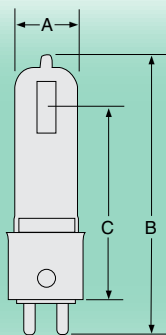
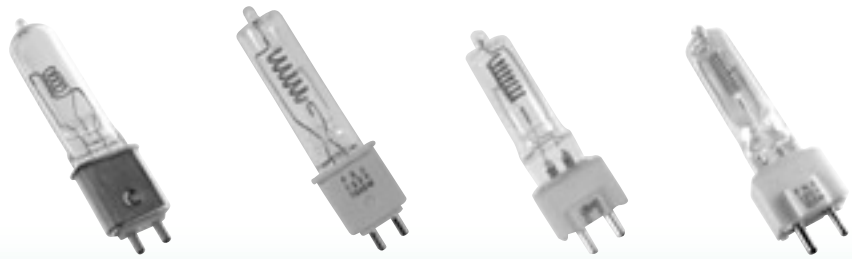


Fig.1

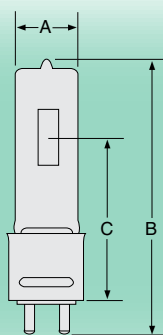


Fig.2

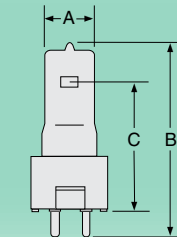


Fig.3

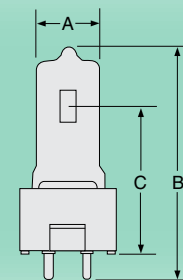


Fig.4

TUNGSTEN HALOGEN LAMPS • SINGLE ENDED

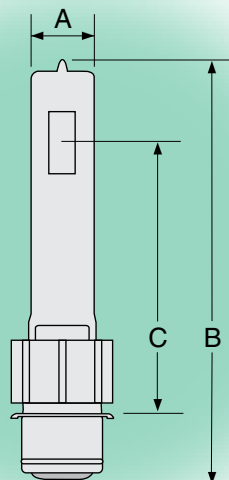
JCV SERIES

- Only for Use in Approved Enclosed Halogen Fixtures



Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Burn Position
			Dia (A)	OAL (B)	LCL (C)					
Medium Prefocus Base – P28s										
500	1000273	EGC/EGD, JCV120V-500WC	14.0	152	88.9	CC-8	12700	3150	500	Any
500	1000274	EGE, JCV120V-500WB	14.0	152	88.9	CC-8	10450	3000	2000	Any
750	1000275	EGF, JCV120V-750WC	19.0	152	88.9	CC-8	20400	3200	500	Any
750	1000276	EGG, JCV120V-750WB	19.0	152	88.9	CC-8	15750	3000	2000	Any
1000	1000278	EGJ, JCV120V-1000WC	19.0	152	88.9	CC-8	27500	3200	500	Any
1000	1000279	EGK, JCV120V-1000WCF	19.0	152	88.9	CC-8	26500	3200	500	Any
1000	1000280	* EGM, JCV120V-1000WB	19.0	152	88.9	CC-8	21500	3000	2000	Any

* Frosted Envelope



TUNGSTEN HALOGEN LAMPS • SINGLE ENDED

JS SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- 2-Pin Base - GY16
- Bipost Base - G22



Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Burn Position	Fig No
			Dia (A)	OAL (B)	LCL (C)						
GY16 Base											
2000	1000631	FTM, JS220V-2000WCGY	42.0	145.0	70.0	C-13	54000	3200	400	Any	1
Medium Bipost Base – G22											
500	1000281	EGN, JS120V-500WC	23.0	117.0	63.5	C-13D	13000	3200	100	BD/Hor	2
750	1000282	EGR, JS120V-750WC (CP39)	23.0	127.0	63.5	C-13D	21000	3200	200	BD/Hor	2
1000	1000283	EGT, JS120V-1000WC (CP40)	23.0	127.0	63.5	C-13D	28500	3200	200	BD/Hor	2

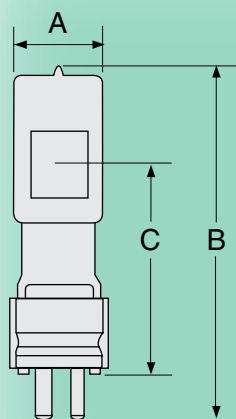


Fig.1

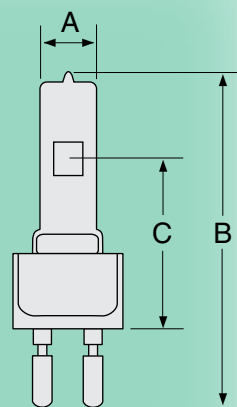


Fig.2

TUNGSTEN HALOGEN LAMPS • SINGLE ENDED

JS SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- Mogul Bipost Base - G38
P40s Base



Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Burn Position	Fig No
			Dia (A)	OAL (B)	LCL (C)						
Mogul Bipost Base – G38											
1000	1000154	CYV, JS120V-1000WC2	23.0	200.0	127.0	C-13	28500	3200	200	BD/Hor	1
1500	1000150	CXZ, JS120V-1500W	40.0	210.0	127.0	C-13	44500	3200	400	BD	2
2000	1000094	BWA, JS120V-2000W/G38	25.0	203.2	127.0	CC-8	54000	3200	500	Any	3
2000	1000155	CYX, JS120V-2000WC	40.0	210.0	127.0	C-13	59000	3200	300	BD/45	2
5000	1000215	DPY, JS120V-5000WC	60.0	268.0	165.0	C-13	145000	3200	500	BD/45	4
10000	1000222	DTY, JS120V-10000WC	80.0	391.0	254.0	C-13	285000	3200	500	BD/45	5
20000	1002288	BCM (208V) JS208V-20000W/C	100.0	550.0	354.0	C-13	580000	3200	400	BD/45	6
20000	1002165	BCM, JS225V-20000W	100.0	550.0	354.0	C-13	580000	3200	400	BD/45	6

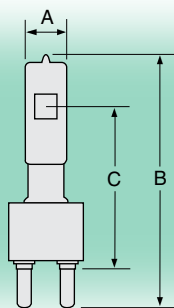


Fig.1

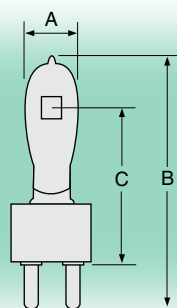


Fig.2

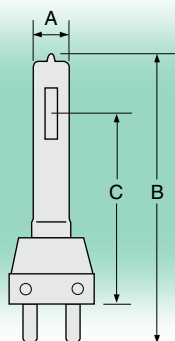


Fig.3

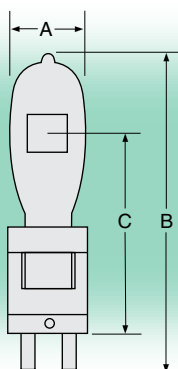


Fig.4

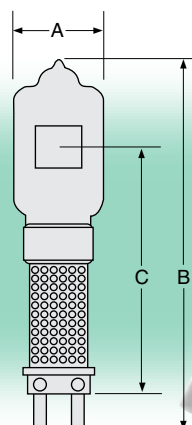


Fig.5

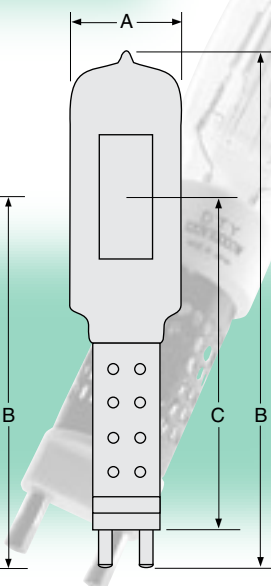


Fig.6

TUNGSTEN HALOGEN LAMPS • SINGLE ENDED

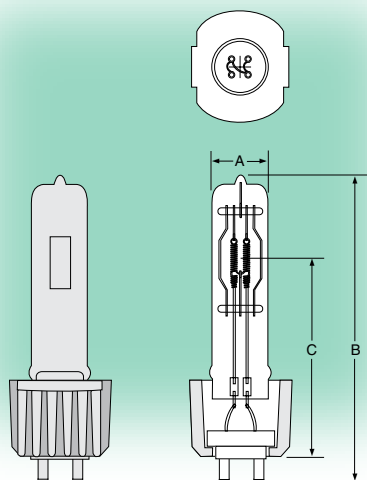
for ETC Source Four™, Source Four JR™ & Source Four PAR™

HPL SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- More Fixture Light Output Using Less Electrical Energy
- Integral Heat Sink Base
- Low Seal Temperature

Watts	Ushio Ordering Code	Ushio Lamp Code	Description	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h
				Dia (A)	OAL (B)	LCL (C)				
Heat Sink Base – 77 Volt										
550	1000668	HPL-550/77V+	JS77V-550WC	18.35	104	60.3	4-C8	16170	3250	300
550	1000669	HPL-550/77X+	JS77V-550WX	18.35	104	60.3	4-C8	12160	3050	2000
750	1000676	HPL-750/77V	JS77V-750WC	18.35	104	60.3	4-C8	22950	3250	300
115 Volt										
375	1000666	HPL-375/115V+	JS115V-375WC	18.35	104	60.3	4-C8	10540	3250	300
375	1000667	HPL-375/115X+	JS115V-375WX	18.35	104	60.3	4-C8	8000	3050	1000
575	1000670	HPL-575/115V+	JS115V-575WC	18.35	104	60.3	4-C8	16520	3250	300
575	1000671	HPL-575/115X+	JS115V-575WX	18.35	104	60.3	4-C8	12360	3000	2000
750	1000675	HPL-750/115V+	JS115V-750WC	18.35	104	60.3	4-C8	21900	3250	300
750	1003153	HPL-750/115X+	JS115V-750WX	18.35	104	60.3	4-C8	16400	3050	1500
120 Volt										
575	1000672	HPL-575/120V+	JS120V-575WC	18.35	104	60.3	4-C8	16520	3250	300
575	1002283	HPL-575/120X+	JS120V575WX	18.35	104	60.3	4-C8	12360	3050	2000
750	1003144	HPL-750/120V+	JS120V-750WC	18.35	104	60.3	4-C8	21900	3250	300
750	1003178	HPL-750/120X+	JS120V-750WX	18.35	104	60.3	4-C8	16400	3050	1500
230 Volt										
375	1003182	HPL-375/230X+	JS230V-375WXN	18.35	104	60.3	6-C8	7250	3000	1000
575	1000673	HPL-575/230V+	JS230V-575WCN	18.35	104	60.3	6-C8	14900	3200	400
575	1002233	HPL-575/230X+	JS230V-575WXN	18.35	104	60.3	6-C8	11780	3050	1500
750	1002289	HPL-750/230V+	JS230V-750WCN	18.35	104	60.3	6-C8	19750	3200	300
750	1003179	HPL-750/230X+	JS230V-750WXN	18.35	104	60.3	6-C8	15600	3050	1500
240 Volt										
375	1003183	HPL-375/240X+	JS240V-375WXN	18.35	104	60.3	6-C8	7250	3000	1000
575	1000674	HPL-575/240V+	JS240V-575WCN	18.35	104	60.3	6-C8	14900	3050	400
575	1002234	HPL-575/240X+	JS240V-575WXN	18.35	104	60.3	6-C8	11780	3050	1500
750	1003184	HPL-750/240V+	JS240V-750WCN	18.35	104	60.3	6-C8	19750	3200	300
750	1003180	HPL-750/240X+	JS240V-750WXN	18.35	104	60.3	6-C8	15600	3050	1500

Top View



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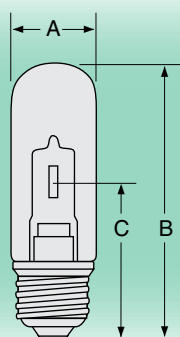
TUNGSTEN HALOGEN LAMPS • SINGLE ENDED

JT SERIES

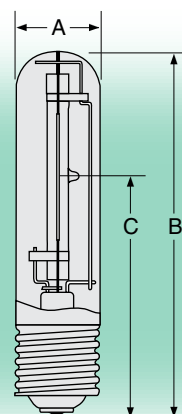
- Only for Use in Approved Enclosed Halogen Fixtures
- Medium & Mogul Screw Base
- Double Envelope
- 120 Volt
- Operate in Any Position

Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm			Filament Type	Approx Lumens lm	Color Temp K	Avg Life h	Bulb Finish
			Dia (A)	OAL (B)	LCL (C)					
Medium Screw Base – E26 Compact Version										
100	1001137	JT120V-100WG	31.0	85.0	51.0	CC-8	1600	2800	1500	Clear
100	1001140	JT120V-100WGF	31.0	85.0	54.0	CC-8	1552	2800	1500	Frosted
150	1001883	JT120V-150WG	31.0	85.0	54.0	CC-8	2800	2800	2000	Clear
250	1001141	JT120V-250WG	31.0	105.0	58.0	CC-8	5000	2950	2000	Clear
250	1001142	JT120V-250WGF	31.0	105.0	58.0	CC-8	4850	2950	2000	Frosted
Mogul Screw Base – E39										
500	1001143	JT120V-500WB	40.0	193.0	123.0	C-8	11000	3200	2000	Clear
1000	1001134	JT120V-1000WB	42.0	260.0	157.0	C-8	22000	3050	2000	Clear
Mogul Screw Base – E40										
500	1003361	JT120V-1000WC/E40	42.0	195.0	123.0	C-8	25000	3200	150	Clear
500	1001173	JT240V-500WB	42.0	193.0	123.0	C-8	9500	3200	2000	Clear
1000	1001889	JT240V-1000WB	42.0	260.0	175.0	C-8	21500	3400	2000	Clear

JT type Halogen lamps are double enveloped lamps in which a Halogen lamp serves as an inner tube.



E26- Clear or Frosted
Compact Version



E39 and E40

TUNGSTEN HALOGEN LAMPS • MR-8 REFLECTOR

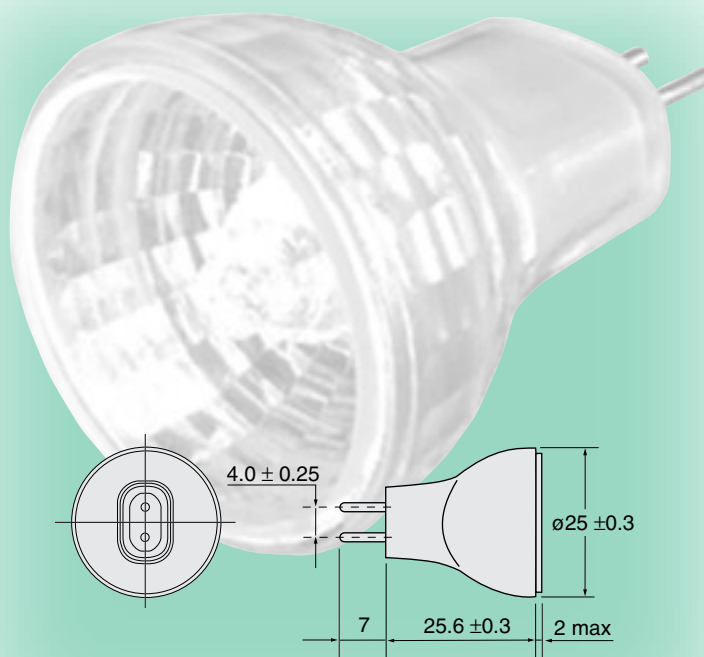
MR-8 SERIES

- Only for Use in Approved Halogen Fixtures
- 25mm, Dichroic Coating, Faceted Mirror Reflector
- Miniature 2-Pin
- Low Voltage - 12 Volt

- Operate in Any Position



Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions	Color Temp K	Beam			Ave Life h
			OAL mm		Angle	Spread	Max CP cd	
Miniature 2-Pin Base – GZ4 with Front Glass Cover								
20	1003116	MR-8 12V-20W/NSP10/FG	34.6	3050	10°	Narrow Spot	1700	2000
20	1003117	MR-8 12V-20W/NFL23/FG	34.6	3050	23°	Narrow Flood	800	2000
35	1003118	MR-8 12V-35W/SP13/FG	34.6	3050	13°	Spot	2300	2000
35	1003119	MR-8 12V-35W/NFL26/FG	34.6	3050	26°	Narrow Flood	1400	2000



GZ4

TUNGSTEN HALOGEN LAMPS • MR-11 REFLECTOR

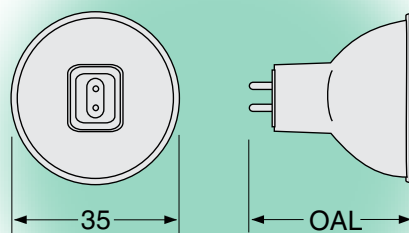
MR-11 SERIES

- Only for Use in Approved Halogen Fixtures
- 35mm, Dichroic Coating, Faceted Mirror Reflector
- Miniature 2-Pin Base
- 12 & 24 Volt

- Operate in Any Position
- Available with Front Glass Cover (FG)



Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions	Color Temp K	Angle	Beam	Max CP cd	Ave Life h
			OAL mm			Spread		
Miniature 2-Pin Base – GZ4								
12	1000615	FTA, JDR/M12V-12W/G/NSP9.5	35.0	2925	9.5°	Narrow Spot	2300	2000
12	1000616	FTA/FG, JDR/M12V-12W/G/NSP9.5/FG	35.0	2925	9.5°	Narrow Spot	2300	2000
20	1000617	FTB, JDR/M12V-20W/G/SP10	35.0	2925	10°	Spot	3000	2000
20	1000618	FTB/FG, JDR/M12V-20W/G/SP10/FG	35.0	2925	10°	Spot	3000	2000
20	1000619	FTC, JDR/M12V-20W/G/SP17	35.0	2925	17°	Spot	1400	2000
20	1000620	FTC/FG, JDR/M12V-20W/G/SP17/FG	35.0	2925	17°	Spot	1400	2000
20	1001843	JDR/M12V-20W/G/SP16/FG	35.0	3450	16°	Spot	2000	250
20	1000621	FTD, JDR/M12V-20W/G/FL30	35.0	2925	30°	Flood	600	2000
20	1000622	FTD/FG, JDR/M12V-20W/G/FL30/FG	35.0	2925	30°	Flood	600	2000
35	1000623	FTE, JDR/M12V-35W/G/SP12	35.0	2950	12°	Spot	4800	2000
35	1000624	FTE/FG, JDR/M12V-35W/G/SP12/FG	35.0	2950	12°	Spot	4800	2000
35	1000625	FTF, JDR/M12V-35W/G/SP20	35.0	2950	20°	Spot	2400	2000
35	1000626	FTF/FG, JDR/M12V-35W/G/SP20/FG	35.0	2950	20°	Spot	2400	2000
35	1000627	FTH, JDR/M12V-35W/G/FL30	35.0	2950	30°	Flood	1300	2000
35	1000628	FTH/FG, JDR/M12V-35W/G/FL30/FG	35.0	2950	30°	Flood	1300	2000
24 Volt, Miniature 2-Pin Base – GZ4								
20	1001001	JDR/M24V-20W/SP12	35.0	2925	12°	Spot	2200	2000
20	1001002	JDR/M24V-20W/SP12/FG	35.0	2925	12°	Spot	2200	2000
20	1000999	JDR/M24V-20W/SP19	35.0	2925	19°	Spot	1150	2000
20	1001000	JDR/M24V-20W/SP19/FG	35.0	2925	19°	Spot	1150	2000
20	1001003	JDR/M24V-20W/FL30	35.0	2925	30°	Flood	500	2000
20	1001004	JDR/M24V-20W/FL30/FG	35.0	2925	30°	Flood	500	2000
35	1001007	JDR/M24V-35W/SP13	35.0	2925	13°	Spot	2100	2000
35	1001008	JDR/M24V-35W/SP13/FG	35.0	2925	13°	Spot	2100	2000
35	1001005	JDR/M24-35W/SP19	35.0	2925	19°	Spot	1700	2000
35	1001010	JDR/M24V-35W/FL30/FG	35.0	2925	30°	Flood	1700	2000



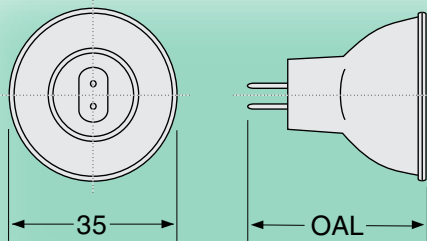
GZ4

TUNGSTEN HALOGEN LAMPS • MR-11 REFLECTOR

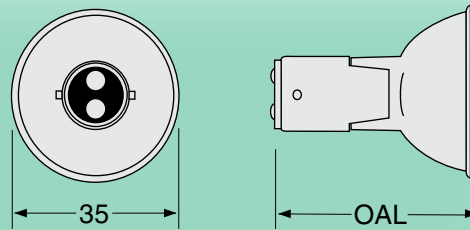
MR-11 SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- Miniature 2-Pin & DC Bayonet Base
- Low Voltage - 12 Volt
- Operate in Any Position
- Faceted (except as noted)

Watts	Ushio Ordering Code	Ushio Lamp Code	Reflector Type	Dimensions	Filament Type	Color Temp K	Beam			Ave Life h
				OAL mm			Angle	Spread	Max CP cd	
Miniature 2-Pin Base – GZ4										
10	1000931	JCR/M6V-10WN/FG	Specular	40.8	C-6	3050	8.5°	Narrow Spot	3000	200
25	1000544	FLT, JCR/M13.8V-25W		35.0	CC-6	3100	—	—	50	500
20	1000934	JCR/M6V-20W		33.3	C-6	3200	20°	Spot	1800	50
35	1000930	JCR/M14V-35W		36.0	C-6	—	—	—	—	50
50	1000926	JCR/M12V-50W	Specular	35.0	C-8	—	—	—	—	50
75	1000929	JCR/M12V-75W/HO		35.0	C-8	—	—	—	—	50
100	1000921	JCR/M12V-100W		37.0	C-8	3400	—	—	—	25
Double Contact Bayonet Base – BA15d										
20	1000607	FSS, JDR/M12V-20W/BA/NSP10		42.0	C-6	2900	10°	Narrow Spot	4000	2000
20	1000608	FSS/FG, JDR/M12V-20W/BA/NSP10/FG		46.5	C-6	2900	10°	Narrow Spot	4000	2000
20	1000609	FST, JDR/M12V-20W/BA/SP17		42.0	C-6	2900	17°	Spot	1400	2000
20	1000610	FST/FG, JDR/M12V-20W/BA/SP17/FG		46.5	C-6	2900	17°	Spot	1400	2000
20	1000611	FSV, JDR/M12V-20W/BA/FL30		42.0	C-6	2900	30°	Flood	600	2000
20	1000612	FSV/FG, JDR/M12V-20W/BA/FL30/FG		46.5	C-6	2900	30°	Flood	600	2000
35	1000655	GDX, JDR/M12V-35W/BA/SP10		42.0	C-6	2900	10°	Narrow Spot	4500	2000
35	1000656	GDX/FG, JDR/M12V-35W/BA/SP10/FG		46.5	C-6	2900	10°	Narrow Spot	4500	2000
35	1000657	GDY, JDR/M12V-35W/BA/SP20		42.0	C-6	3000	20°	Spot	2100	2000
35	1000658	GDY/FG, JDR/M12V-35W/BA/SP20/FG		46.5	C-6	3000	20°	Spot	2100	2000
35	1000659	GDZ, JDR/M12V-35W/BA/FL30		42.0	C-6	2950	30°	Flood	1600	2000
35	1000660	GDZ/FG, JDR/M12V-35W/BA/FL30/FG		46.5	C-6	2950	30°	Flood	1600	2000



GZ4



BA15d
with front glass cover

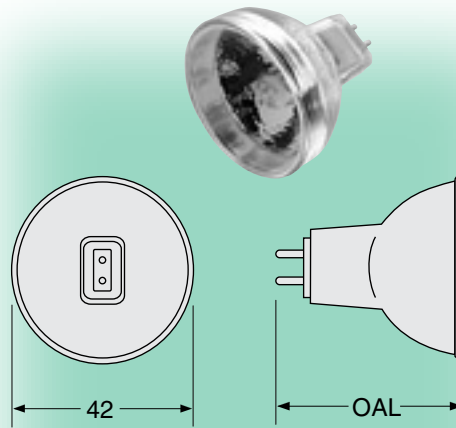
TUNGSTEN HALOGEN LAMPS • MR-13 REFLECTOR

JCR SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- 2-Pin Base
- 42mm Dichroic Coated Reflector
- Operate Base Down to Horizontal
- Focused Beam for Optical Applications

Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions OAL mm	Reflector Type	Filament Type	Working Distance mm	Center Screen Illuminance lx	Color Temp K	Avg Life h	Burn Position
2-Pin Base – GX5.3 MR-13 Reflector										
250	1000423	EXY, JCR82V-250W	44.5	Stippled	CC-8	152.4	610	3250	250	BD/Hor
300	1000414	EXR, JCR82V-300W	44.5	Stippled	CC-8	152.4	1100	3350	35	BD/Hor
300	1000421	EXW, JCR82V-300W	44.5	Stippled	CC-8	152.4	1200	3400	15	BD/Hor
300	1000535	FHS, JCR82V-300W	44.5	Stippled	CC-8	152.4	1000	3300	70	BD/Hor

Center Screen Illuminance - Approximate value for reference only



GX5.3

TUNGSTEN HALOGEN LAMPS • MR-16 REFLECTOR

JCR SERIES

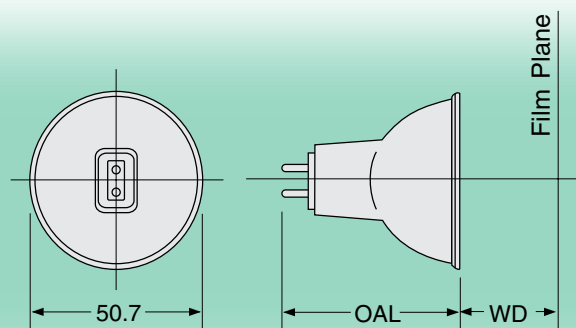
- Focused Beam for Optical Applications
- Only for Use in Approved Enclosed Halogen Fixtures
- 2-Pin Base
- 50mm Dichroic Coated Reflector

- Operate Base Down to Horizontal



Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions	Reflector Type	Filament Type	Working Distance mm	Luminous Intensity cd	Center Screen Illuminance lx	Color Temp K	Avg Life h	Burn Position
			OAL mm								
2-Pin Base – GX5.3 Base											
30	1000315	EKZ, JCR10.8V-30W	44.5	Specular	CC-6	38.1	—	400	3100	200	BD/Hor
35	1000344	EPN, JCR12V-35W	44.5	Specular	C-6	9.0	—	350	3300	50	BD/Hor
42	1000346	EPT, JCR10.8V-42W	44.5	Faceted	CC-6	38.1		250	2900	8000	BD/Hor
50	1000335	ENL, JCR12V-50W	44.5	Faceted	C-6	38.1	2000	—	3000	4000	Any
50	1000546	FML, JCR13.8V-50W	44.5	Faceted	CC-6	214.3	—	230	3150	1000	Any
50	1000197	DJT, JCR13.8V-50W	44.5	Faceted	CC-6	152.0	—	538	3150	1000	BD/Hor
50	1000339	ENZ, JCR30V-50W	44.5	Specular	CC-6	29.0	—	650	3400	25	BD/Hor
80	1000303	EJY, JCR19V-80W	44.5	Specular	CC-6	38.1	—	—	3400	25	BD/Hor
80	1000307	EKG, JCR19V-80W	44.5	Specular	CC-6	44.5	—	700	3400	25	BD/Hor
80	1000336	ENW/ENC, JCR19V-80W	44.5	Specular	CC-6	44.5	—	600	3200	400	BD/Hor
80	1000174	DDM, JCR19V-80W	44.5	Faceted	CC-6	152.4	—	680	3350	50	BD/Hor
80	1000177	DDS, JCR21V-80W	44.5	Faceted	CC-6	165.0	—	646	3125	500	BD/Hor
80	1000312	EKP, JCR30V-80W	44.5	Faceted	CC-6	44.5	—	750	3400	25	BD/Hor
80	1000317	ELB, JCR30V-80W	44.5	Specular	CC-6	29.0	—	900	3400	15	BD/Hor
85	1000180	DED, JCR13.8V-85W	44.5	Specular	C-8	165.0	—	1000	3150	1000	BD/Hor
90	1000347	EPV, JCR14.5V-90W	44.5	Stippled	CC-6	155.2	—	1345	3150	500	BD/Hor
90	1000349	EPX, JCR14.5V-90W	44.5	Stippled	CC-6	165.1	—	538	3150	500	BD/Hor
100	1000326	EMC, JCR12V-100W	44.5	Faceted	CC-6	26.5	—	—	3200	200	BD/Hor
100	1001630	EMC/14, JCR13.8V-100W	44.5	Faceted	CC-6	142.0	19000	—	3200	200	BD/Hor
100	1000420	EXV, JCR12V-100W	44.5	Faceted	C-6	—	4500	—	3350	50	BD/Hor
120	1000311	EKN, JCR17.7V-120W	44.5	Specular	CC-6	38.1	—	1000	3200	120	BD/Hor

Center Screen Illuminance - Approximate value for reference only



GX5.3

TUNGSTEN HALOGEN LAMPS • MR-16 REFLECTOR

JCR SERIES

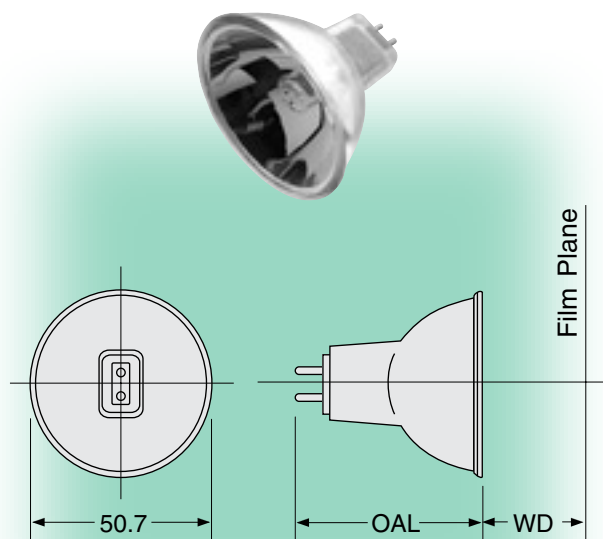
- Focused Beam for Optical Applications
- Only for Use in Approved Enclosed Halogen Fixtures
- 2-Pin Base
- 50mm Dichroic Coated Reflector

- Operate Base Down to Horizontal



Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions OAL mm	Reflector Type	Filament Type	Working Distance mm	Luminous Intensity cd	Center Screen Illuminance lx	Color Temp K	Avg Life h	Burn Position
2-Pin Base – GX5.3 MR-16 Reflector											
150	1000173	DDL, JCR20V-150W	44.5	Faceted	CC-6	194.5	—	400	3150	500	BD/Hor
150	1000297	EJA, JCR21V-150W	44.5	Specular	CC-6	28.0	—	—	3400	40	BD/Hor
150	1000301	EJM, JCR21V-150W	44.5	Specular	CC-6	38.1	—	—	3400	40	BD/Hor
150	1000302	EJV, JCR21V-150W	44.5	Specular	CC-6	44.5	—	1500	3400	40	BD/Hor
150	1000306	EKE, JCR21V-150W	44.5	Specular	CC-6	44.5	—	900	3250	200	BD/Hor
150	1000319	ELD/EJN, JCR21V-150W	44.5	Stippled	CC-6	50.8	—	320	3400	40	BD/Hor
150	1002247	ELD/K, JCR21V-150W	44.5	Stippled	CC-6	165.0	—	—	3400	40	BD/Hor
200	1000300	EJL, JCR24V-200W	44.5	Specular	CC-6	31.7	—	1100	3400	50	BD/Hor
200	1000314	EKX, JCR24V-200W	44.5	Stippled	CC-6	139.7	—	—	3400	25	BD/Hor
225	1003034	EZF/K, JCR69V-225W	44.5	Faceted	CC-8	152.4	—	500	—	500	BD/Hor
250	1000318	ELC, JCR24V-250W	44.5	Specular	CC-6	31.7	—	1500	3400	50	BD/Hor
250	1003106	ELC-3, JCR24V-250W	44.5	Specular	CC-6	31.8	—	960	3400	300	BD/Hor
250	1003264	ELC-5, JCR24V-250W	44.5	Specular	CC-6	31.8	—	960	3400	500	BD/Hor
250	1001037	ELC/C, JER24V-250W	44.5	Specular	CC-6	31.8	—	800	3400	50	BD/Hor
340	1000353	ERV, JCR36V-340W	44.5	Faceted	CC-8	298.5	—	—	3300	75	BD/Hor

Center Screen Illuminance - Approximate value for reference only



GX5.3

TUNGSTEN HALOGEN LAMPS • MR-16 REFLECTOR

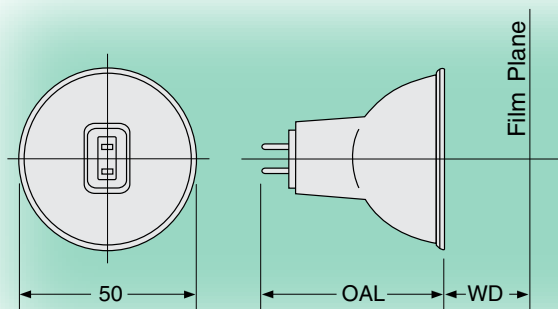
JCR SERIES

- Focused Beam for Optical Applications
- Only for Use in Approved Enclosed Halogen Fixtures
- Oval 2-Pin Base - GY5.3, 2-Pin Base - GZ6.35
- 50mm Dichroic Coated Reflector

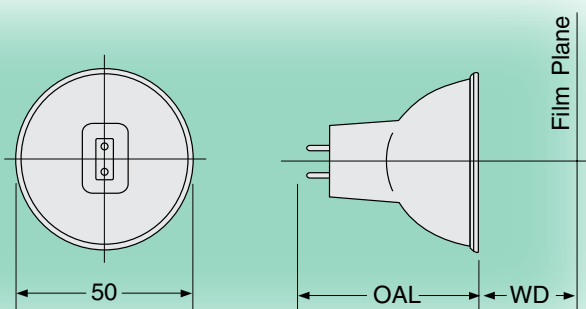
- Operate Base Down to Horizontal



Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions		Reflector Type	Filament Type	Working Distance mm	Color Temp K	Avg Life h	Burn Position
			Dia mm	OAL mm						
Oval 2-Pin Base – GY5.3										
85	1000357	ESH, JCR82V-85W	50.67	44.5	Stippled	CC-8	152.0	2950	250	BD/Hor
85	1000358	ESJ, JER82V-85W	50.67	44.5	Specular	CC-8	32.0	3350	40	BD/Hor
150	1000356	ESD, JCR120V-150W	50.67	44.5	Stippled	CC-8	44.5	3350	12	BD/Hor
150	1000940	JCR120V-150W/B	50.67	44.5	Stippled	CC-8	—	3050	100	BD/Hor
200	1000441	EYA, JCR82V-200W	50.67	44.5	Faceted	CC-8	38.1	3300	50	BD/Hor
250	1000386	EVW, JCR82V-250W	50.67	44.5	Faceted	CC-8	298.5	3300	50	BD/Hor
250	1000333	ENH, JCR120V-250W	50.67	44.5	Faceted	CC-8	152.4	3250	175	BD/Hor
250	1000379	ETJ, JCR120V-250W	50.67	44.5	Specular	CC-8	36.5	3250	175	BD/Hor
250	1000422	EXX, JCR120V-250W	50.67	44.5	Stippled	CC-8	298.5	3300	75	BD/Hor
300	1000332	ENG, JCR120V-300W	50.67	44.5	Stippled	CC-8	152.4	3450	15	BD/Hor
300	1000458	EYK, JCR120V-300W	50.67	44.5	Specular	CC-8	31.7	3300	60	BD/Hor
300	1000321	ELH, JCR120V-300W	50.67	44.5	Stippled	CC-8	154.3	3350	35	BD/Hor
360	1000542	FLE, JCR82V-360W U/D	50.00	44.5	Faceted	CC-8	209.6	3300	75	BD/Hor
360	1000337	ENX, JCR82V-360W	50.67	44.5	Faceted	CC-8	298.5	3300	75	BD/Hor
360	1000338	ENX-5, JCR86V-360W	50.67	44.5	Faceted	CC-8	298.5	3300	75	BD/Hor
350	1000348	EPW, JCR100V-360W	50.67	44.5	Stippled	CC-8	298.5	3300	75	BD/Hor
410	1000636	FXL, JCR82V-410W	50.67	44.5	Faceted	CC-8	298.5	3300	75	BD/Hor
2-Pin Base – GZ6.35										
75	1000270	EFN, JCR12V-75W	50.0	42.0	Specular	C-6	32.0	3400	50	BD/Hor
100	1003003	JCR12V-100W/H10	50.0	42.0	Specular	C-8	36.0	3100	1000	BD/Hor
100	1000941	JCR12V-100WB/XX	50.0	44.5	Specular	C-6	32.0	3100	1000	BD/Hor
100	1000271	EFP, JCR12V-100W	50.0	42.0	Specular	C-6	32.0	3400	50	BD/Hor
150	1000272	EFR, JCR15V-150W	50.0	42.0	Specular	C-8	32.0	3400	50	BD/Hor



GY5.3



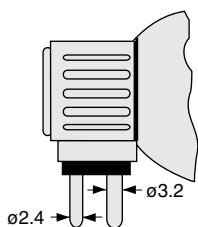
GZ6.35

TUNGSTEN HALOGEN LAMPS • MR-14 AND MR-18 REFLECTOR

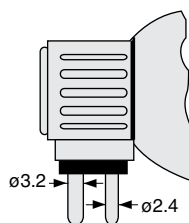
JCR SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- 2-Pin Vented Base - G7.9
- 2-Pin Vented Base - GX7.9
- 45mm and 57mm Dichroic Coated Reflector
- Operate in Horizontal Position

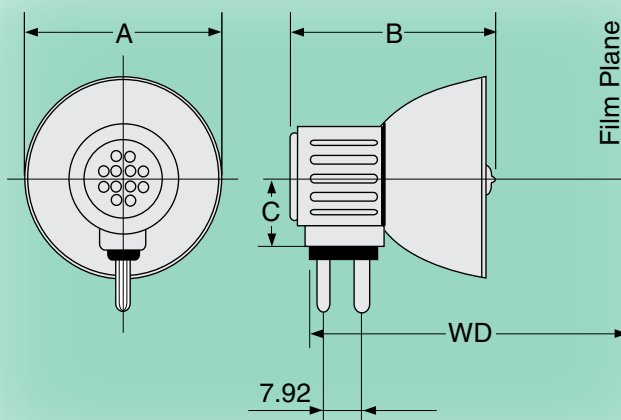
Watts	Ushio	Ushio	Dimensions mm			Reflector Type	Filament Type	Working Distance mm	Color Temp K	Avg Life h	Burn Position
	Ordering Code	Lamp Code	Dia	OAL	Ref.						
			(A)	(B)	(C)						
MR-14 & MR-18, 2-Pin Vented Base – G7.9 Line Voltage											
150	1000206	DNE, JCR120V-150W	57.2	49.9	15.9	Specular	CC-8	69.1	3350	12	Horiz
250	1000057	BHB, JCR120V-250W	44.5	47.5	15.9	Specular	CC-8	65.8	3400	50	Horiz
MR-14 & MR-18, 2-Pin Vented Base – GX7.9 Low Voltage											
150	1000207	DNF, JCR21V-150W	57.2	45.1	15.9	Specular	CC-6	69.1	3400	25	Horiz
150	1000325	ELZ, JCR21V-150W	57.2	45.1	15.9	Specular	CC-6	69.1	3350	60	Horiz



G7.9



GX7.9



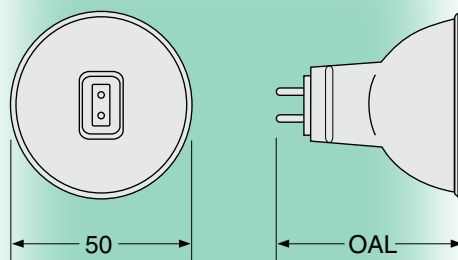
TUNGSTEN HALOGEN LAMPS • MR-16 REFLECTOR

JR 12V SERIES - EUROSTAR™

- Only for Use in Approved Halogen Fixtures
- Titanium Oxide Coated Reflector
- Axial Filament
- Low Voltage - 12 Volts
- Consistent Color
- Integrated UV Protection
- Precisely Focused Light Cone
- Cool Beam Effect
- Available with Front Glass Cover (/FG)



Watts	Ushio Ordering Code	Ushio Lamp Code	Dimension	Filament Type	Beam		Color Temp K	Avg Life h	Burn Position
			OAL mm		Angle	Max CP cd			
2-Pin Base – GU5.3									
10	1001107	JR12V-10W/NFL21	44.9	C-8	21°	600	2800	1500	Any
10	1001108	JR12V-10W/NFL21/FG	44.9	C-8	21°	600	2800	1500	Any
10	1003154	JR12V-10W/FL32	45.2	C-8	32°	400	2800	1500	Any
20	1000366	ESX, JR12V-20W/SP12	44.9	C-8	12°	3500	2950	5000	Any
20	1000370	ESX/FG, JR12V-20W/SP12/FG	45.2	C-8	12°	3500	2950	5000	Any
20	1000028	BBF, JR12V-20W/NFL24	44.9	C-8	24°	1200	2950	5000	Any
20	1000037	BBF/FG, JR12V-20W/NFL24/FG	45.2	C-8	24°	1200	2950	5000	Any
20	1000000	BAB, JR12V-20W/FL36	44.9	C-8	36°	600	2950	5000	Any
20	1000014	BAB/FG, JR12V-20W/FL36/FG	45.2	C-8	36°	600	2950	5000	Any
20	1000001	BAB/60, JR12V-20W/WFL60	44.9	C-8	60°	270	2950	5000	Any
20	1000004	BAB/60/FG, JR12V-20W/WFL60/FG	45.2	C-8	60°	2700	2950	5000	Any
35	1000548	FMT/FRB, JR12V-35W/SP12	44.9	C-8	12°	6000	2950	5000	Any
35	1000551	FMT/FG, JR12V-35W/SP12/FG	45.2	C-8	12°	6000	2950	5000	Any
35	1000552	FMV/FRA, JR12V-35W/NFL24	44.9	C-8	24°	2300	2950	5000	Any
35	1000559	FMV/FG, JR12V-35W/NFL24/FG	45.2	C-8	24°	2300	2950	5000	Any
35	1000564	FMW, JR12V-35W/FL36	44.9	C-8	36°	1300	2950	5000	Any
35	1000573	FMW/FG, JR12V-35W/FL36/FG	45.2	C-8	36°	1300	2950	5000	Any
35	1000565	FMW/60, JR12V-35W/WFL60	44.9	C-8	60°	510	2950	5000	Any
35	1000566	FMW/60/FG, JR12V-35W/WFL60/FG	45.2	C-8	60°	510	2950	5000	Any
50	1000416	EXT, JR12V-50W/SP12	44.9	C-8	12°	11000	3000	5000	Any
50	1000419	EXT/FG, JR12V-50W/SP12/FG	45.2	C-8	12°	11000	3000	5000	Any
50	1000424	EXZ, JR12V-50W/NFL24	44.9	C-8	24°	3600	3000	5000	Any
50	1000430	EXZ/FG, JR12V-50W/NFL24/FG	45.2	C-8	24°	3600	3000	5000	Any
50	1000398	EXN, JR12V-50W/FL36	44.9	C-8	36°	2000	3000	5000	Any
50	1000405	EXN/FG, JR12V-50W/FL36/FG	45.2	C-8	36°	2000	3000	5000	Any
50	1000589	FNV, JR12V-50W/WFL60	44.9	C-8	60°	850	3000	5000	Any
50	1000592	FNV/FG, JR12V-50W/WFL60/FG	45.2	C-8	60°	850	3000	5000	Any



GU5.3

TUNGSTEN HALOGEN LAMPS • MR-16 REFLECTOR

JR 12V & 24V SERIES - EUROSTAR™

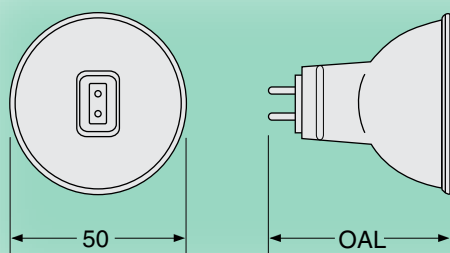
- Only for Use in Approved Halogen Fixtures
- 50mm Diameter Dichroic Coated Reflector
- 2-Pin Base
- 12 & 24 Volt

- Available with Front Glass Cover (FG)
- Consistent Color

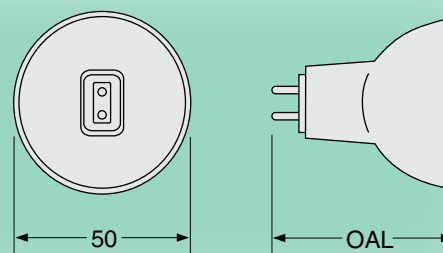


Watts	Ushio	Ushio	Dimension	Filament	Beam		Color	Avg	Burn
	Ordering	Lamp Code	OAL	Type	Angle	Max CP			
	Code		mm			cd	K	h	
2-Pin Base – GU5.3									
75	1000451	EYF, JR12V-75W/SP12	44.9	C-8	12°	13000	3000	5000	Any
75	1000452	EYF/FG, JR12V-75W/SP12/FG	45.2	C-8	12°	13000	3000	5000	Any
75	1000454	EYJ/EZZ, JR12V-75W/NFL24	44.9	C-8	24°	4800	5000	5000	Any
75	1000455	EYJ/EZZ/FG, JR12V-75W/NFL24/FG	45.2	C-8	24°	4800	3000	5000	Any
75	1000444	EYC, JR12V-75W/FL36	44.9	C-8	36°	2700	3000	5000	Any
75	1000447	EYC/FG, JR12V-75W/FL36/FG	45.2	C-8	36°	2700	5000	5000	Any
75	1000445	EYC/60, JR12V-75W/WFL60	44.9	C-8	60°	1220	5000	5000	Any
75	1000446	EYC/60/FG, JR12V-75W/WFL60/FG	45.2	C-8	60°	1220	3000	5000	Any
24V, 2-Pin Base – GU5.3									
20	1001112	JR24V-20W/SP12	44.9	C-6	12°	3500	2900	2500	Any
20	1001113	JR24V-20W/SP12/FG	45.2	C-6	12°	3500	2900	2500	Any
20	1001114	JR24V-20W/FL36*	44.9	C-6	36°	600	2900	2500	Any
35	1003110	JR24V-35W/SP12*	44.9	C-6	12°	4600	2900	3500	Any
35	1003111	JR24V-35W/NFL24*	44.9	C-6	24°	1600	2900	3500	Any
35	1003112	JR24V-35W/FL36*	44.9	C-6	36°	900	2900	3500	Any
50	1003113	JR24V-50W/SP12*	44.9	C-6	12°	7000	2950	4000	Any
50	1003114	JR24V-50W/NFL24*	44.9	C-6	24°	2900	2950	4000	Any
50	1003115	JR24V-50W/FL36*	44.9	C-6	36°	1600	2950	4000	Any
2-Pin Base – GX5.3									
35	1000600	FRB, JR12V-35W/NSP, GX5.3	46.0	C-6	12°	7800	3000	3000	Any
42	1000461	EYR, JR12V-42W/SP12	46.0	CC-6	12°	9000	3000	4000	Any
42	1000462	EYS, JR12V-42W/NFL23	46.0	CC-6	23°	2800	3000	4000	Any
42	1000460	EYP, JR12V-42W/FL38	46.0	CC-6	38°	1400	3000	4000	Any
65	1000595	FPA, JR12V-65W/SP13	46.0	CC-6	13°	11500	3050	4000	Any
65	1000596	FPB, JR12V-65W/FL/FL38	46.0	CC-6	38°	2000	3050	4000	Any

* Front glass versions available



GU5.3



GX5.3

TUNGSTEN HALOGEN LAMPS • MR-16 EUROSTAR REFLEKTO™

EUROSTAR REFLEKTO™

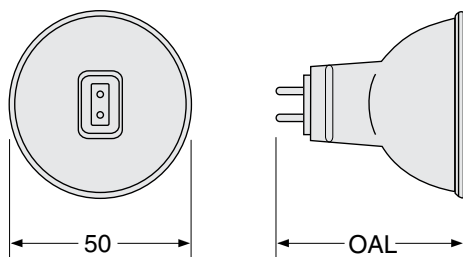
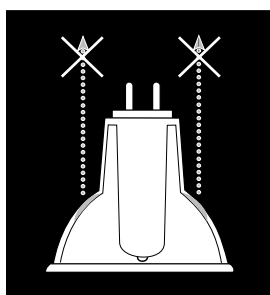
- Only for Use in Approved Halogen Fixtures
- Axial Filament
- Universal Burn Position
- Aluminized Multimirror Reflector
- Consistent Color
- Available with Front Glass Cover (/FG)
- Low Voltage - 12 Volt
- Integrated UV Protection
- Less heat to back of the lamp
- Precisely Focused Light Cone



Watts	Ushio Ordering Code	Ushio Lamp Code	Dimension	Color Temp K	Beam			Avg Life h	
			OAL mm		Angle	Spread	Max CP cd		
2-Pin Base – GU5.3 - Multimirror Reflector									
10	1002143	JR12V-10W/NFL24/A, EUROSTAR-REFLEKTO	44.9	2800	24°	Narrow Flood	400	1200	
20	1000368	ESX/C/A, EUROSTAR-REFLEKTO	44.9	2950	12°	Spot	3500	3500	
20	1000369	ESX/C/A/FG, EUROSTAR-REFLEKTO	44.9	2950	12°	Spot	3500	3500	
20	1000033	BBF/C/A/FG, EUROSTAR-REFLEKTO	44.9	2950	24°	Narrow Flood	1200	3500	
20	1000009	BAB/C/A, EUROSTAR-REFLEKTO	44.9	2950	36°	Flood	600	3500	
20	1000010	BAB/C/A/FG, EUROSTAR-REFLEKTO	44.9	2950	36°	Flood	600	3500	
35	1000549	FMT/C/A, EUROSTAR-REFLEKTO	44.9	2950	12°	Spot	6000	3500	
35	1000550	FMT/C/A/FG, EUROSTAR-REFLEKTO	44.9	2950	12°	Spot	6000	3500	
35	1000556	FMV/C/A, EUROSTAR-REFLEKTO	44.9	2950	24°	Narrow Flood	2300	3500	
35	1000557	FMV/C/A/FG, EUROSTAR-REFLEKTO	44.9	2950	24°	Narrow Flood	2300	3500	
35	1000570	FMW/C/A, EUROSTAR-REFLEKTO	44.9	2950	36°	Flood	1300	3500	
35	1000571	FMW/C/A/FG, EUROSTAR-REFLEKTO	44.9	2950	36°	Flood	1300	3500	
35	1001682	FMW/60/C/A, EUROSTAR-REFLEKTO	44.9	2950	60°	Wide Flood	510	3500	
35	1001683	FMW/60/C/A/FG, EUROSTAR-REFLEKTO	44.9	2950	60°	Wide Flood	510	3500	
50	1000417	EXT/C/A, EUROSTAR-REFLEKTO	44.9	3000	12°	Spot	11000	3500	
50	1000418	EXT/C/A/FG, EUROSTAR-REFLEKTO	44.9	3000	12°	Spot	11000	3500	
50	1000427	EXZ/C/A, EUROSTAR-REFLEKTO	44.9	3000	24°	Narrow Flood	3600	3500	
50	1000428	EXZ/C/A/FG, EUROSTAR-REFLEKTO	44.9	3000	24°	Narrow Flood	3600	3500	
50	1000402	EXN/C/A, EUROSTAR-REFLEKTO	44.9	3000	36°	Flood	2000	3500	
50	1000403	EXN/C/A/FG, EUROSTAR-REFLEKTO	44.9	3000	36°	Flood	2000	3500	
50	1000590	FNV/C/A, EUROSTAR-REFLEKTO	44.9	3000	60°	Wide Flood	850	3500	
50	1000591	FNV/C/A/FG, EUROSTAR-REFLEKTO	44.9	3000	60°	Wide Flood	850	3500	

Reflektol™ lamps are made with an aluminum dichroic deposition process for an 80% reduction in heat emission through the back of the lamp.

With no light diffusion from back-spill, all visible light is projected through the front of the lamp. Excellent for high light output requirements.



GU5.3



60° Beam Spread

TUNGSTEN HALOGEN LAMPS • MR-16 SUPERLINE™ & SUPERLINE REFLEKTO™

MR-16 SUPERLINE™ & SUPERLINE REFLEKTO™

- Only for Use in Approved Halogen Fixtures
- 50mm Diameter Multilense Reflector
- Excellent Center-to-Edge Beam Uniformity
- Consistent Color

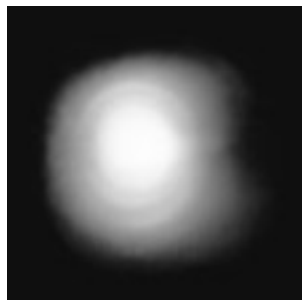
- Low Voltage - 12 Volt
- Integrated UV Protection
- Universal Burn Position
- Available with Front Glass Cover (FG)

Decorative Aluminum
Coating in matte colors
black, silver & bronze



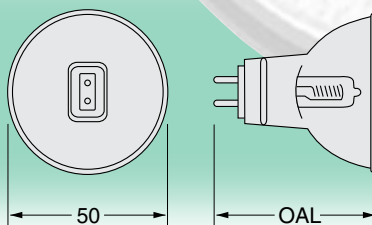
Watts	Ushio Ordering Code	Ushio Lamp Code	Dimension	Color Temp K	Angle	Beam		Avg Life h
			OAL mm			Spread	Max CP cd	
SUPERLINE™, Superior Beam Spread – GU5.3 Base								
20	1000043	BBF/SL, SUPERLINE	45	2950	24°	Narrow Flood	870	5000
20	1000015	BAB/FG/SL, SUPERLINE	45	2950	36°	Flood	510	5000
20	1000020	BAB/SL, SUPERLINE	45	2950	36°	Flood	510	5000
35	1000563	FMV/SL, SUPERLINE	45	2950	24°	Narrow Flood	2000	5000
35	1000560	FMV/FG/SL, SUPERLINE	45	2950	24°	Narrow Flood	2000	5000
35	1000577	FMW/SL, SUPERLINE	45	2950	36°	Flood	1200	5000
35	1000574	FMW/FG/SL, SUPERLINE	45	2950	36°	Flood	1200	5000
50	1000440	EXZ/SL, SUPERLINE	45	3050	24°	Narrow Flood	3000	5000
50	1000431	EXZ/FG/SL, SUPERLINE	45	3050	24°	Narrow Flood	3000	5000
50	1000406	EXN/FG/SL, SUPERLINE	45	3050	36°	Flood	1580	5000
50	1000409	EXN/SL, SUPERLINE	45	3050	36°	Flood	1580	5000
SUPERLINE-REFLEKTO™, Aluminized Colored Back – GU5.3 Base								
20	1000005	BAB/B, REFLEKTO BLACK	45	2900	36°	Flood	510	3500
20	1000007	BAB/B/FG, REFLEKTO BLACK	45	2900	36°	Flood	510	3500
20	1000018	BAB/S, REFLEKTO SILVER	45	2900	36°	Flood	510	3500
20	1000019	BAB/S/FG, REFLEKTO SILVER	45	2900	36°	Flood	510	3500
35	1000567	FMW/B, REFLEKTO BLACK	45	2950	36°	Flood	1200	3500
35	1000568	FMW/B/FG, REFLEKTO BLACK	45	2950	36°	Flood	1200	3500
35	1003543	FMW/BZ/FG, REFLEKTO BRONZE	45	2950	36°	Flood	1200	3500
35	1000575	FMW/S, REFLEKTO SILVER	45	2950	36°	Flood	1200	3500
35	1000576	FMW/S/FG, REFLEKTO SILVER	45	2950	36°	Flood	1200	3500
50	1001652	EXZ/B, REFLEKTO BLACK	45	3000	24°	Narrow Flood	3000	3500
50	1003542	EXZ/BZ/FG, REFLEKTO BRONZE	45	3000	24°	Narrow Flood	3000	3500
50	1000425	EXZ/B/FG, REFLEKTO BLACK	45	3000	24°	Narrow Flood	3000	3500
50	1001653	EXZ/S, REFLEKTO SILVER	45	3000	24°	Narrow Flood	3000	3500
50	1000439	EXZ/S/FG, REFLEKTO SILVER	45	3000	24°	Narrow Flood	3000	3500
50	1000399	EXN/B, REFLEKTO BLACK	45	3000	36°	Flood	1580	3500
50	1000400	EXN/B/FG, REFLEKTO BLACK	45	3000	36°	Flood	1580	3500
50	1003541	EXN/BZ/FG, REFLEKTO BRONZE	45	3000	36°	Flood	1580	3500
50	1000407	EXN/S, REFLEKTO SILVER	45	3000	36°	Flood	1580	3500
50	1000408	EXN/S/FG, REFLEKTO SILVER	45	3000	36°	Flood	1580	3500

Standard Multimirror Reflector Lamps



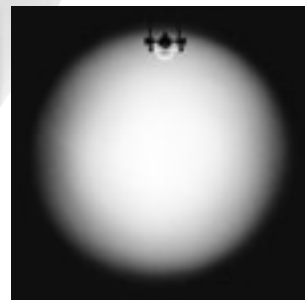
All Photos: 20 Watt, flood distribution,
taken 1 meter from screen

The geometry of the Multilense Reflector together with an axial filament design, guarantees an absolute uniform appearance across the beam without unsightly, dark spots or rings.



GU5.3

Superline™- Multilense Reflector



TUNGSTEN HALOGEN LAMPS MR-16 SPECIALTY DICHROIC COATINGS

SPECIALTY LAMPS

- Only for Use in Approved Halogen Fixtures
- 50mm Diameter Multilense Reflector
- UV-Cut Halogen Capsule
- Low Voltage - 12 Volt
- 2-Pin Base
- Universal Burn Position
- Integrated Front Glass Cover (/FG)

Watts	Ushio Ordering Code	Ushio Lamp Code	Dimension	Color	Beam			Avg Life h
			OAL	Temp	Angle	Spread	Max CP cd	
			mm	K				
WHITESTAR™ High Color Temperature 2-Pin Base – GU5.3								
35	1003340	FMW/FG/WS/4200, WHITESTAR	45.2	4200	36°	Flood	600	4000
35	1003341	FMW/FG/WS/5300, WHITESTAR	45.2	5300	36°	Flood	500	4000
50	1002286	EXZ/FG/WS/4200, WHITESTAR	45.2	4200	24°	Narrow Flood	2000	4000
50	1002249	EXN/FG/WS/4200, WHITESTAR	45.2	4200	36°	Flood	1200	4000
50	1002287	EXT/FG/WS/4700, WHITESTAR	45.2	4700	12°	Spot	5000	4000
50	1003225	EXN/FG/WS/5300, WHITESTAR	45.2	5300	36°	Flood	600	4000
50	1003224	EXZ/FG/WS/5300, WHITESTAR	45.2	5300	24°	Narrow Flood	1100	4000
50	1003226	EXT/FG/WS/6500, WHITESTAR	45.2	6500	12°	Spot	3300	4000
POPSTAR™ Colored Dichroic Lens 2-Pin Base – GU5.3				Color				
50	1000580	FNC/FG, JR12V-50W/FG	45.2	Yellow	12°	Spot	9000	4000
50	1000582	FND/FG, JR12V-50W/FG	45.2	Red	12°	Spot	2000	4000
50	1000584	FNE/FG, JR12V-50W/FG	45.2	Green	12°	Spot	4400	4000
50	1000586	FNF/FG, JR12V-50W/FG	45.2	Blue	12°	Spot	2200	4000
50	1003132	EXT/OR/FG, JR12V-50W/FG	45.2	Orange	12°	Spot	5000	4000
50	1003200	EXT/MG/FG, JR12V-50W/FG	45.2	Magenta	12°	Spot	4400	4000
NEODYMIUM 2-Pin Base – GX5.3								
50	1000435	EXZ/N NEODYMIUM COATED	47.0	—	24°	Narrow Flood	2000	2000



WHITESTAR™

Whitestar™ 4200K lamp was designed to provide a full spectrum MR-16 for display and task lighting. This high color temperature lamp projects a high luminous intensity with low ultraviolet and infrared emissions to protect artwork and valuable merchandise.

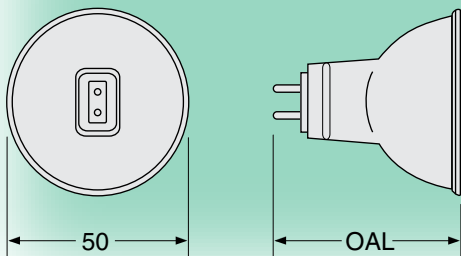


POPSTAR™

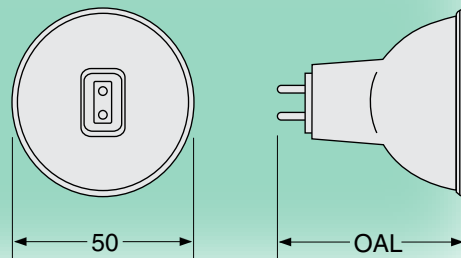
The **EXZ/N** neodymium coated EXZ reduces yellow content, enhancing reds, blues, and purples.



NEODYMIUM



GU5.3



GX5.3

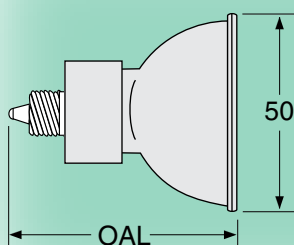
TUNGSTEN HALOGEN LAMPS • MR-16 REFLECTOR

JDR SERIES

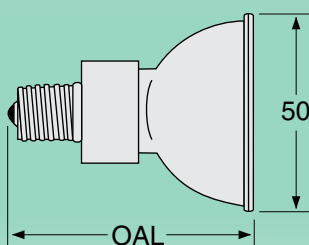
- Only for Use in Approved Enclosed Halogen Fixtures
- 50mm Dichroic Coated Reflector
- Line Voltage - 120 Volt
- Operate Base Up
- Mini Candelabra Screw Base
- Intermediate Screw Base
- Medium Screw Base

Watts	Ushio Ordering Code	Ushio Lamp Code	ANSI Code	Dimensions	Angle	Beam	Max CP cd	Color Temp K	Avg Life h
				OAL mm		Spread			
Minican Screw Base - E11									
100	1002223	JDR120V-100W/FL36		50	36°	Wide	3000	3000	2000
Intermediate Screw Base - E17									
75	1001032	JDR120V-75WL/SP14	FSA	75	14°	Narrow	5000	3000	2000
75	1001030	JDR120V-75WL/NFL24	FSB	75	24°	Medium	1800	3000	2000
75	1001033	JDR120V-75WL/FL38	FSD	75	38°	Wide	1300	3000	2000
100	1001013	JDR120V-100WL/SP12	FSC	75	14°	Narrow	7100	3000	2000
100	1001011	JDR120V-100WL/NFL24	FSE	75	24°	Medium	4200	3000	2000
100	1001016	JDR120V-100WL/FL38	FSF	75	38°	Wide	2800	3000	2000
Medium Screw Base - E26									
75	1001834	JDR120V-75WL/SP14		75	14°	Narrow	5000	3000	2000
75	1001022	JDR120V-75W/NFL20/FG *		75	20°	Medium	2800	3000	2000
75	1001031	JDR120V-75WL/NFL24		75	24°	Medium	2800	3000	2000
75	1001836	JDR120V-75WL/FL30		75	30°	Wide	2100	3000	2000
75	1001029	JDR120V-75W/FL30/FG *		75	30°	Wide	2100	3000	2000
100	1001014	JDR120V-100WL/SP10		75	10°	Narrow	6300	3000	2000
100	1001012	JDR120V-100WL/NFL20		75	20°	Medium	4200	3000	2000
100	1001017	JDR120V-100WL/FL30		75	30°	Wide	2500	3000	2000

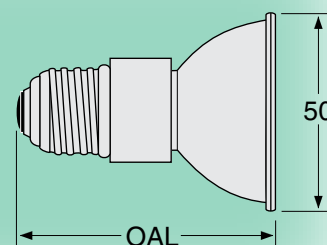
* Front glass versions available



E11



E17

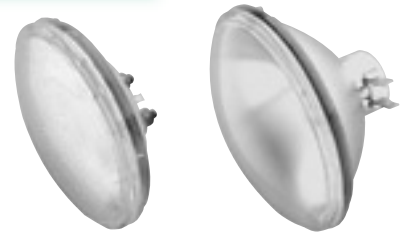


E26

TUNGSTEN INCANDESCENT & HALOGEN LAMPS PARABOLIC ALUMINIZED REFLECTOR

PAR SERIES

- Only for Use in Approved Enclosed Halogen Fixtures
- PAR46 - 5 3/4" Diameter; PAR56 - 7" Diameter; PAR64 - 8" Diameter
- Operate in Any Position

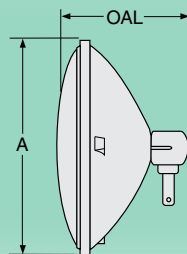


Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm		Approx Field Angle Degrees¹	Approx Field Beam Degrees²	Approx Field Lumens lm³	Beam Spread	Color Temp K	Ave Life h
			Dia (A)	OAL (B)						
PAR46 w/Medium Side Prongs - Incandescent										
200	1001441	200PAR46/3NSP	143.1	101.6	—	—	—	Narrow Spot	2750	2000
200	1001439	200PAR46/3MFL	142.3	101.6	—	—	—	Medium Flood	2750	2000
PAR56 – Mogul End Prong (GX16d) Base										
300	1001453	300PAR56/MFL	178.6	127.0	34x19	23x11	2100	Medium Flood	2750	2000
300	1001457	300PAR56/WFL	178.6	127.0	57x27	37x18	2200	Wide Flood	2750	2000
500	1001282	Q500PAR56/NSP	178.6	127.0	32x15	13x8	4000	Narrow Spot	2950	4000
500	1001281	Q500PAR56/MFL	178.6	127.0	42x20	26x10	4800	Medium Flood	2950	4000
500	1001284	Q500PAR56/WFL	178.6	127.0	66x34	44x20	6400	Wide Flood	2950	4000
PAR64 – Extended Mogul End Prong (GX16d) Base										
500	1001495	500PAR64/NSP	205.7	152.4	—	—	6500	Narrow Spot	2850	2000
500	1001493	500PAR64/MFL	205.7	152.4	—	—	6500	Medium Flood	3000	2000
500	1001497	500PAR64/WFL	205.7	152.4	—	—	6500	Wide Flood	2850	2000
1000	1000519	FFN, PAR64/VNSP	205.7	152.4	24x10	12x6	11000	Very Narrow Spot	3150	800
1000	1000520	FFP, PAR64/NSP	205.7	152.4	26x14	14x7	12000	Narrow Spot	3150	800
1000	1000521	FFR, PAR64/MFL	205.7	152.4	44x21	28x12	14000	Medium Flood	3150	800
1000	1000522	FFS, PAR64/WFL	205.7	152.4	71x45	48x24	19000	Wide Flood	3150	800

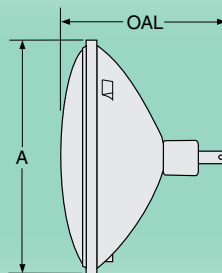
¹ Beam Spread at 10% peak candle power

² Beam Spread at 50% peak candle power

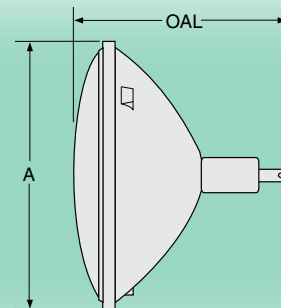
³ Measured within field angle



Medium
Side Prongs



Mogul End Prong
GX16d



Extended Mogul End Prong
GX16d

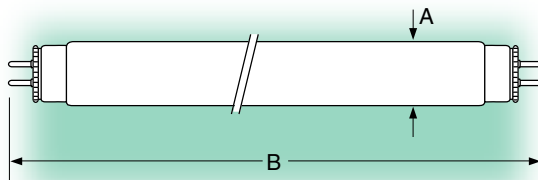
FLUORESCENT BLACKLIGHT BLUE

BLACKLIGHT BLUE FLUORESCENT LAMPS

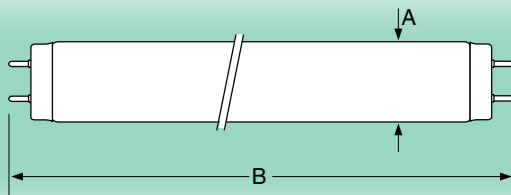
- Linear Fluorescent Lamps
- High CRI

Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions mm		Current A	Volts V	Spectral Peak (nm)	UV Output (W)	Avg Life h	Base
			Dia (A)	OAL (B)						
BLACKLIGHT BLUE T-5 DIAMETER										
4.5	3000106	F4T5BLB	15.5	134.5	0.170	29	306	0.5	3000	G5
6	3000111	F6T5BLB	15.5	210.5	0.160	42	368	1.0	3000	G5
7.2	3000116	F8T5BLB	15.5	287.0	0.145	57	368	1.2	3000	G5
BLACKLIGHT BLUE T-8 DIAMETER										
9.5	3000305	F10T8BLB	25.5	330.0	0.230	46	368	1.5	4000	G13
15.0	3000078	F15T8BLB	25.5	436.0	0.305	55	368	2.6	4000	G13
18.0	3000307	F18T8BLB	25.5	588.5	0.370	57	368	3.7	4000	G13
30.5	3000148	F30T8BLB	25.5	893.0	0.355	99	368	6.3	4000	G13
36.0	3000308	F36T8BLB*	25.5	1198.0	0.430	103	368	8.1	8000	G13
BLACKLIGHT BLUE T-10 DIAMETER										
19	3000306	F20T10/BLB*	32.5	588.5	0.360	58	368	3.7	4000	G13
39.5	3000138	F40T10/BLB/R (RAPID START)	32.5	1198.0	0.420	106	368	8.1	5000	G13
BLACKLIGHT BLUE, COMPACT										
7.0	3000330	FPX7BLB	28.0	115.0	0.180	45	368	1.0	4000	G23
9.0	3000325	FPX9BLB	28.0	145.0	0.180	59	368	1.4	4000	G23
18.0	3000327	FPX18KBLB	40.0	225.0	0.375	58	368	3.3	4000	2G11

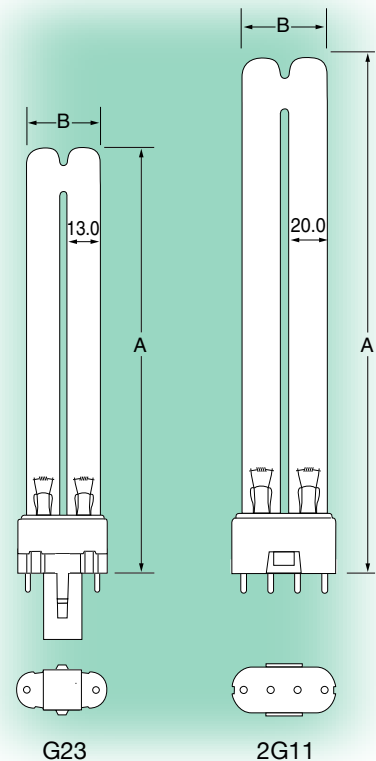
* Preheat



T5 Miniature Bi Pin G5 Base



T8 & T10 Medium Bi Pin G13 Base



Hg - LAMP CONTAINS MERCURY
 Manage in Accord with Disposal Laws
 See: www.lamprecycle.org

COLORED METAL HALIDE LAMPS • SINGLE & DOUBLE ENDED

COLORLITE™ SERIES

- Consistent Color
- High Color Saturation
- No Color Filter or Gels Required for Fixture
- 6,000 Hours Useful Life

Please see Safety and
Handling Instructions
on page 84.



Watts	Ushio	Ushio	Volts	Lamp	Dimensions mm			Luminous			ANSI	Burn	Case
	Ordering Code	Lamp Code		Current A	Dia (A)	MOL (B)	LCL (C)	Flux lm	Wavelength nm	Saturation %			
Single Ended – E39 Mogul Screw Base													
250	5001484	UHI-S250/E39/BLUE	—	3.00	46	225	150	5400	465	66	M80/E*	Univ	12
250	5001485	UHI-S250/E39/GREEN	—	3.00	46	225	150	21000	530	50	M80/E*	Univ	12
250	5001486	UHI-S250/E39/MAGENTA	—	3.00	46	225	150	11000	-560	29	M80/E*	Univ	12
250	5001487	UHI-S250/E39/ORANGE	—	3.00	46	225	150	17000	595	54	M80/E*	Univ	12
400	5000947	UHI-S400BL, BLUE	—	3.25	46	275	175	8000	465	66	M59/E	Univ	12
400	5000946	UHI-S400GR, GREEN	—	3.25	46	275	175	35000	535	63	M59/E	Univ	12
400	5000948	UHI-S400MG, MAGENTA	—	3.25	46	275	175	21000	-500	25	M59/E	Univ	12
1000	5001189	UHI-S1000BL, BLUE	—	4.10	76	340	220	22000	455	61	M47/E	H±60°	6
1000	5001188	UHI-S1000GR, GREEN	—	4.10	76	340	220	92000	535	60	M47/E	H±60°	6
Single Ended – E26 Medium Screw Base													
150	5001453	UHI-S150/E26/BLUE	—	1.80	54	138	86	3900	470	70	M102/E	Univ	12
150	5001452	UHI-S150/E26/GREEN	—	1.80	54	138	86	12500	530	46	M102/E	Univ	12
150	5001498	UHI-S150/E26/MAGENTA	—	1.80	54	138	86	7500	-530	43	M102/E	Univ	12
150	5001499	UHI-S150/E26/ORANGE	—	1.80	54	138	86	11200	600	54	M102/E	Univ	12
175	5001455	UHI-S175/E26/BLUE	—	1.50	54	138	86	3900	470	70	M57/E	Univ	12
175	5001454	UHI-S175/E26/GREEN	—	1.50	54	138	86	12500	530	46	M57/E	Univ	12
175	5001500	UHI-S175/E26/MAGENTA	—	1.50	54	138	86	7500	-530	43	M57/E	Univ	12
175	5001501	UHI-S175/E26/ORANGE	—	1.50	54	138	86	11200	600	54	M57/E	Univ	12
Double Ended – RX7s Base													
150	5000821	UHI-150BL, BLUE	95	1.80	23	132	66	3000	465	56	M81/E	H±45°	10
150	5000822	UHI-150GR, GREEN	95	1.80	23	132	66	9500	535	50	M81/E	H±45°	10
150	5000823	UHI-150MG, MAGENTA	95	1.80	23	132	66	8000	-515	33	M81/E	H±45°	10
150	5000824	UHI-150OR, ORANGE	95	1.80	23	132	66	10000	595	60	M81/E	H±45°	10

Recommended Ignition Voltage: 4kV

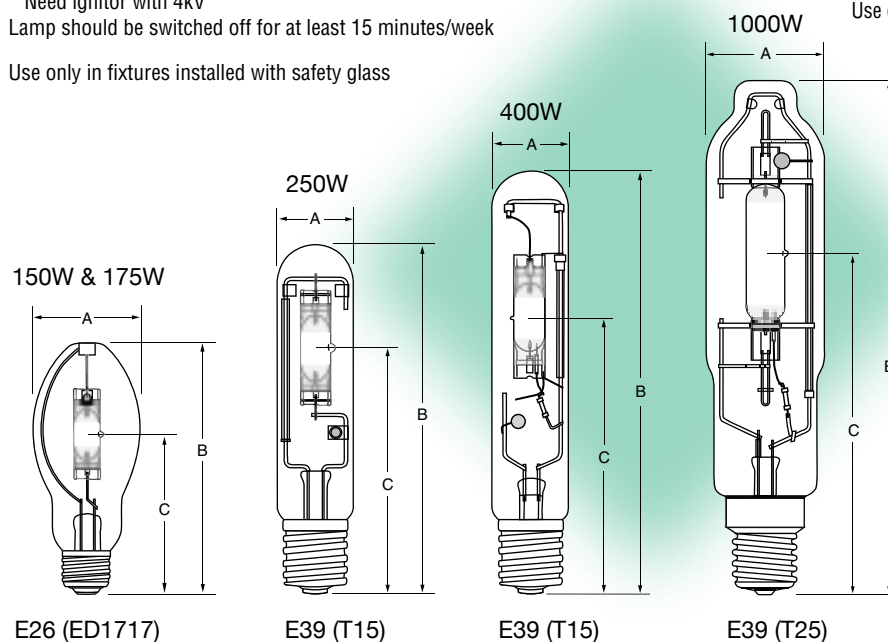
* Need ignitor with 4kV

Lamp should be switched off for at least 15 minutes/week

Use only in fixtures installed with safety glass

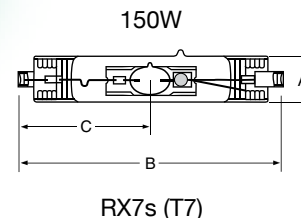
/E = Enclosed Fixture Required

Use only in fixtures installed with tempered safety glass.



Average Life:

RX7s– 150W	= 6000 hours
ED17– 150W, 175W	= 6000 hours
T15– 250W, 400W	= 8000 hours
T25– 1000W	= 6000 hours



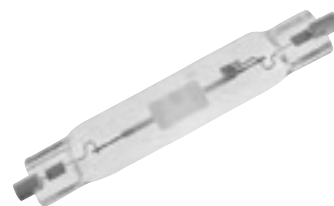
LAMP CONTAINS MERCURY
Manage in Accord with Disposal Laws
See: www.lamprecycle.org

CERAMIC METAL HALIDE LAMPS • SINGLE & DOUBLE ENDED

CERAMIQUE™ SERIES

- High Color Rendering - 80 CRI
- Ceramique Arc Tube
- Consistent Color
- Long Life

Please see Safety and
Handling Instructions
on page 84.



Watts	Ushio	Ushio	Lamp Current A	Dimensions mm			Color Temp K	Luminous Flux lm	Avg Life h	ANSI Ballast/Fixture
	Ordering Code	Lamp Code		Dia (A)	MOL (B)	LCL (C)				
Single Ended – G12 Base										
39	5001320	CMS-39/T4.5/830/G12	0.50	14.5	100	56	3000	3400	10000	M130/E
70	5001321	CMS-70/T6/830/G12	0.98	19.0	100	56	3000	6200	12000	M85/E, M98/E, M139/E
70	5001322	CMS-70/T6/942/G12	0.98	19.0	100	56	4200	6400	12000	M85/E, M98/E, M139/E
150	5001323	CMS-150/T6/830/G12	1.85	19.0	110	56	3000	14000	12000	M81/E, M102/E, M142/E
150	5001324	CMS-150/T6/942/G12	1.85	19.0	110	56	4200	13000	12000	M81/E, M102/E, M142/E
Double Ended – RX7s Base				C-to-C						
70	5001410	CMD-70/TD/828/RX7S	0.90	20.0	114.2	—	2800	6500	8000	M85/E, M98/E, M139/E
70	5001316	CMD-70/TD/830/RX7S	0.90	20.0	114.2	—	3000	7000	15000	M85/E, M98/E, M139/E
70	5001317	CMD-70/TD/942/RX7S	0.90	20.0	114.2	—	4200	7000	15000	M85/E, M98/E, M139/E
150	5001318	CMD-150/TD/830/RX7S	1.80	23.0	132.0	—	3000	14500	15000	M81/E, M102/E, M142/E
150	5001319	CMD-150/TD/942/RX7S	1.80	23.0	132.0	—	4200	12500	15000	M81/E, M102/E, M142/E

Burn Position:

G12 Base: Universal 360°

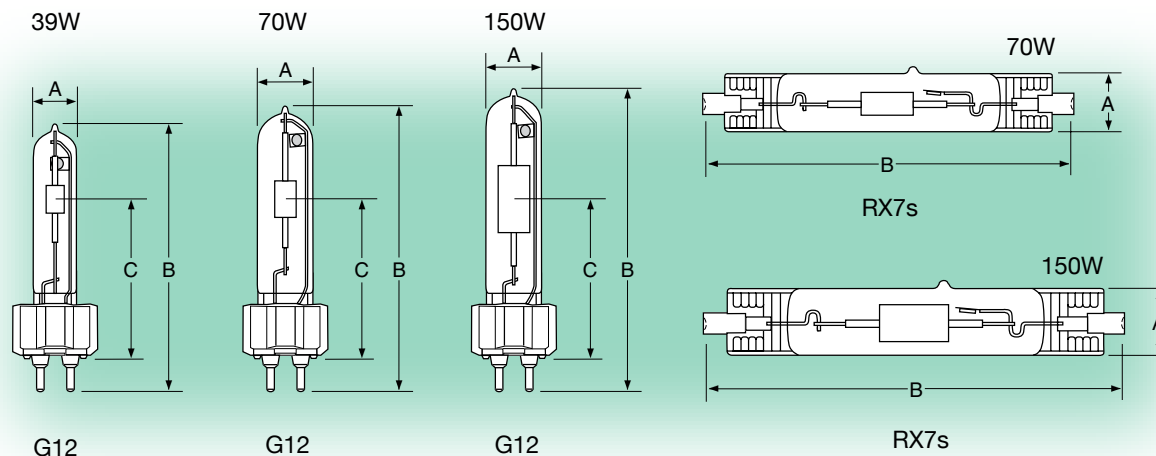
RX7s Base: Horizontal ±45°

Recommended Ignition Voltage: 4kV

Lamp should be switched off for at least 15 minutes/week

Use only in fixtures installed with safety glass

/E = Enclosed Fixture Required



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Manage in Accord with Disposal Laws
See: www.lamprecycle.org

UV METAL HALIDE • DOUBLE ENDED

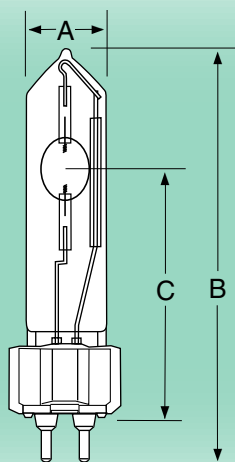
MHL SERIES

- Recessed Single Contact Base - R7s
- For Blacklight Special Effects
- Only Use in UV Protective Housing!

Please see Safety and
Handling Instructions
on page 84.

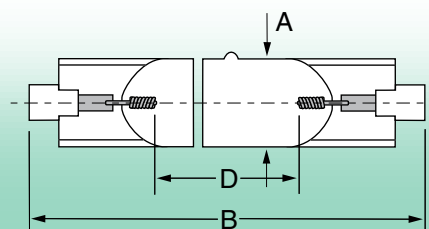
Watts	Ushio Ordering Code	Ushio Lamp Code	Volts	Spectral Range	Dimensions mm			Arc Length (D)	Base	Contact	Avg Life h
					Dia (A)	OAL (B)	LCL (C)				
Single Ended Metal Halide											
70	5001468	MHL-70	95	300-450NM	23.0	102	56	—	G12	—	500
150	5001381	MHL-150	95	300-450nm	23.0	102	56	—	G12	—	500
Double Ended Metal Halide											
250	5000089	MHL-250	125	300-450nm	15.5	68	—	15.5	RSC	R7s	500
450	5000114	MHL-450	140	300-450nm	16.3	105	—	31.0	RSC	R7s	500
1200	5000062	MHL-1000/1	135	350-370nm	23.0	147	—	68.0	RSC	R7s	500

70W & 150W

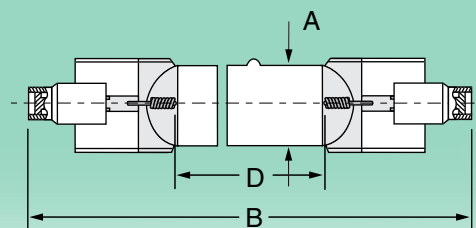


G12

250W



450W, 600W & 1200W



R7s

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Manage in Accord with Disposal Laws
See: www.lamprecycle.org

METAL HALIDE LAMPS • DOUBLE ENDED

UMI & SMH SERIES

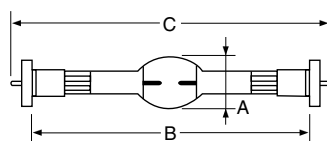
- High Brightness
- 5600K Daylight Color Temperature

Please see Safety and
Handling Instructions
on page 84.

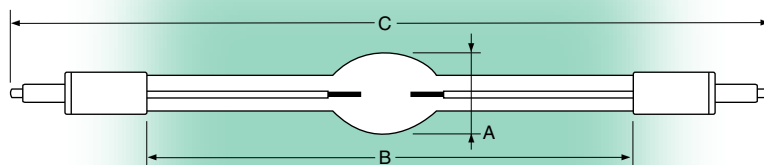


Watts	Ushio	Ushio	Volts	Amps	Arc Gap	Dimensions mm			Luminous Flux lm	Color Temp K	Avg Life h	Base Type	Burn Position
	Ordering Code	Lamp Code				Dia (A)	LCL (B)	OAL (C)					
UMI Series – Double Ended Metal Halide													
575	5000250	• UMI-575/GS	95	7.0	7	21	115	145	49000	5600	750	SFc10-4 M4	Any
1200	5000235	UMI-1200/HB	100	13.8	7	21	115	145	110000	5600	750	SFc 10-4 M4	Any
1200	5000234	• UMI-1200/GS	100	13.8	10	27	180	220	110000	5600	750	SFc 15.5-6 0.5	Any
2500	5000241	• UMI-2500/GS	115	25.6	14	30	290	355	240000	5600	500	SFa 21-12	H±15°
4000	5000245	UMI-4000	200	24.0	34	38	340	405	410000	5600	500	SFa 21-12 ••	H±15°
6000	5000251	UMI-6000	125	55.0	20	52	—	450	650000	5600	300	25.4x50.8	H±15°
SMH Series – Double Ended Metal Halide													
300	5000962	SMH-300/A1 (HTI300W/DX)	95	3.6	5.5	17	—	92	22000	5600	1000	SFc10-4	H±15°

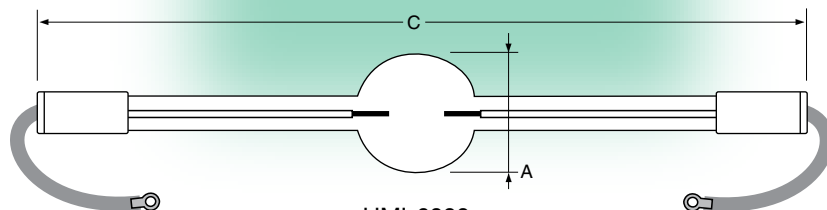
- Gap Short Version
- 165mm (x2) lead wire with 8mm diameter ring terminal



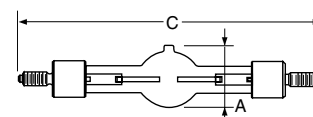
UMI-575/GS UMI-1200/GS, HB



UMI-2500/GS UMI-4000



UMI-6000



SMH-300/A1

(Hg) - LAMP CONTAINS MERCURY
Manage in Accord with Disposal Laws
See: www.lamprecycle.org

COMPACT METAL HALIDE LAMPS • SINGLE ENDED

EUROSPOT™ UHI SERIES

- Color Stable
- High Efficacy - 80 Lm/W
- Long Life - 10,000 Hours Average
- Compact Design

- 80 Color Rendering Index
- UV Protection

Please see Safety and Handling Instructions on page 84.



Watts	Ushio Ordering Code	Ushio Lamp Code	Volts	Amps	Dimensions mm				Color Temp K	Luminous Flux lm	Avg Life h*	Ballast
					Dia (A)	OAL (B)	LCL (C)	Arc Gap				
G12 Axial - Arc 99mm, Long length												
75	5000439	UHI-S75DW/UVF	95	0.9	23	99	56	8.5	3000	6000	10000	M98/E
150	5000950	UHI-S150DW/A/UVF	95	1.8	23	99	56	6.5	3000	13000	10000	M102/E
150	5000875	UHI-S150DM/A/UVF	95	1.8	23	99	56	6.5	4200	13000	10000	M102/E

Burn Position: Universal 360°

Recommended Ignition Voltage: 4kV

Lamp should be switched off for at least 15 minutes/week

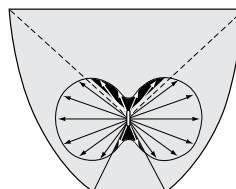
Use only in fixtures installed with safety glass

/E = Enclosed Fixture Required

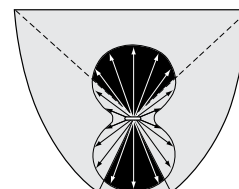
Lamp Code Suffix Designation

- DWS = Warm White, Shorter version
 DW = Warm White
 DMS = Cool White, Shorter version
 DM = Cool White

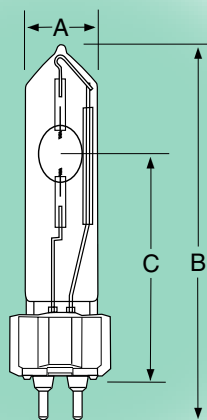
USHIO has incorporated an axial arc-tube which not only increases raw lumen output, but allows light to be more efficiently collected within a reflector



Axial, low stray light portion: approximately 30% higher luminous efficiency can be attained by axial arrangement



Transverse, high stray light portion; stray light leads to dazzle or loss



G12

Hg - LAMP CONTAINS MERCURY
 Manage in Accord with Disposal Laws
 See: www.lamprecycle.org

METAL HALIDE LAMPS • SINGLE ENDED

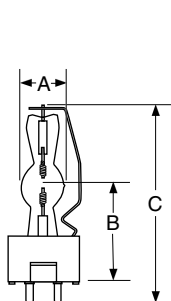
USR SERIES

- Compact Design
- High Brightness
- Daylight Color Temperature
- Universal Burn Position

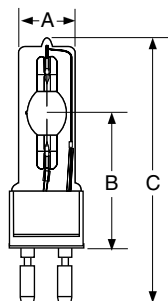
Please see Safety and
Handling Instructions
on page 84.



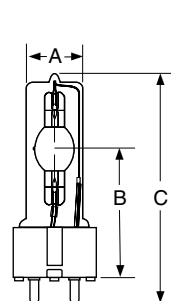
Watts	Ushio Ordering Code	Ushio Lamp Code	Volts	Arc Gap	Nominal Dimensions mm			Luminous Flux lm	Color Temp K	Avg Life h	Base Type
					Dia (A)	LCL (B)	OAL (C)				
Single Ended Metal Halide											
575	5000283	USR-575/BE	95	7	30	70	145	49000	5600	750	G22
575	5002008	USR-575/2	95	7	28	63	121	49000	7200	1000	GX9.5
700	5002009	USR-700/2	72	8	28	73	149	55000	7200	1000	G22/28X42
700	5002010	USR-700/SA	72	4	18	37	79.5	54000	5600	500	GY9.5
1200	5000278	USR-1200 HR	100	11	42	107	200	110000	5600	750	G38
1200	5002012	USR-1200/SA	100	7	28	59	131	96000	5600	750	GY22
1200	5002013	USR-1200/2	90	10	38.5	112	169	105000	7200	800	G22/30X53
2500	5000280	USR-2500 HR	115	14	60	127	240	240000	5600	500	G38
4000	5002014	USR-4000 HR	200	20	75	127	250	380000	6000	500	G38



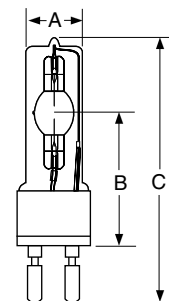
USR-400/SA
USR-700/SA



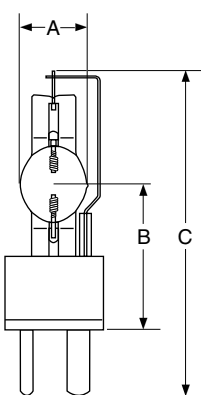
USR-575BE



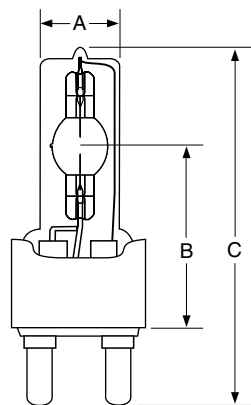
USR-575/2



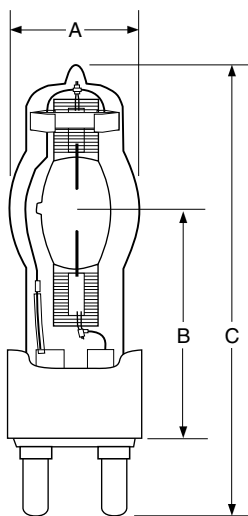
USR-700/2
USR-1200/2



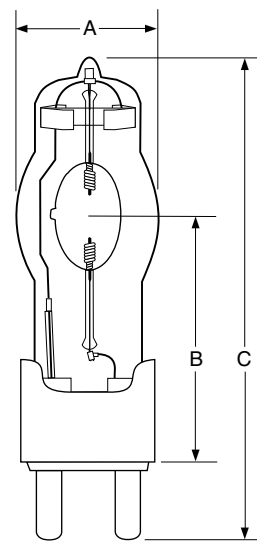
USR-1200/SA



USR-1200 HR



USR-2500 HR



USR-4000 HR

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Manage in Accord with Disposal Laws
See: www.lamprecycle.org

METAL HALIDE LAMPS • SINGLE ENDED

USD SERIES

- Compact Design
- High Luminous Efficacy
- Excellent Color
- Universal Burn Position

Please see Safety and
Handling Instructions
on page 84.

Watts	Ushio	Ushio	Volts	Amps	Dimensions mm		Arc Gap	Initial Lumens	Color Temp	Avg Life	Base Type	Fig No
	Ordering Code	Lamp Code			Dia	OAL						
					(A)	(B)						
Single Ended Metal Halide												
200	5002002	USD-200	68	2.95	23	108	5.0	13500	6000	2000	GY9.5	1
250	5002003	USD-250/2	90	3.6	23	108	5.0	17000	8500	2000	GY9.5	1
575	5002004	USD-575	95	6.1	30	125	8.0	45000	6000	3000	GX9.5	1
700	5002005	USD-700	72	11	40	175	10.0	55000	6000	3000	G22	2
1200	5002006	USD-1200	115	25.6	41	183	14.0	92000	6000	2000	G22	2

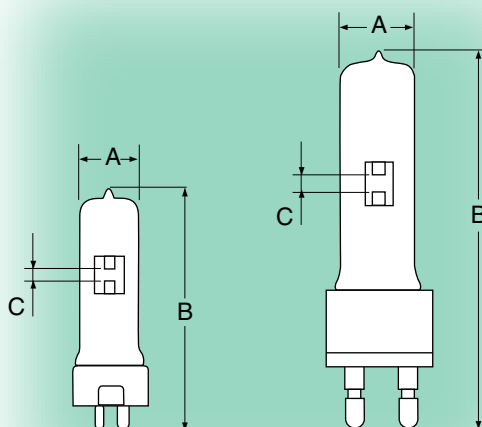


Fig. 1

Fig. 2

(Hg) - LAMP CONTAINS MERCURY
Manage in Accord with Disposal Laws
See: www.lamprecycle.org

METAL HALIDE LAMPS • WITH REFLECTOR

MHR SERIES

- Cold Mirror Reflector
- Compact Design
- Standard AMP Connector

Please see Safety and Handling Instructions on page 84.

Watts	Ushio	Ushio	Volts	Ignition	Lamp	Luminous Flux through Aperature			Color	CRI	Avg	ANSI
	Ordering Code	Lamp Code		Voltage kV	Current A	ø13mm	ø10mm	ø25mm	Temp K		Life h	Ballast/ Fixture
						distance 42mm lm*	distance 44mm lm*	distance 33mm lm**				
AMP Connector												
100	5000789	MHR-100D/L	95	4	1.2	1600	1800	4600	5200	72	6000	M90/E
150	5000834	MHR-150N	95	4	1.8	2000	2200	5300	4200	75	6000	M81/E
250	5001377	MHR-250N	100	4	3.0	3500	—	—	4200	72	4000	M80/E

/E = Enclosed Fixture Required

Optimal distance from reflector to fiber
(with ø13mm fiber bundle):
100W & 150W: 42mm
250W: 53mm

Length of Base Lead Wire: Approx. 75mm

Base Type: AMP Universal Mate-N-Lok

MHR-100D/L: 3 channel plug

MHR-100D/HR: 5 channel plug

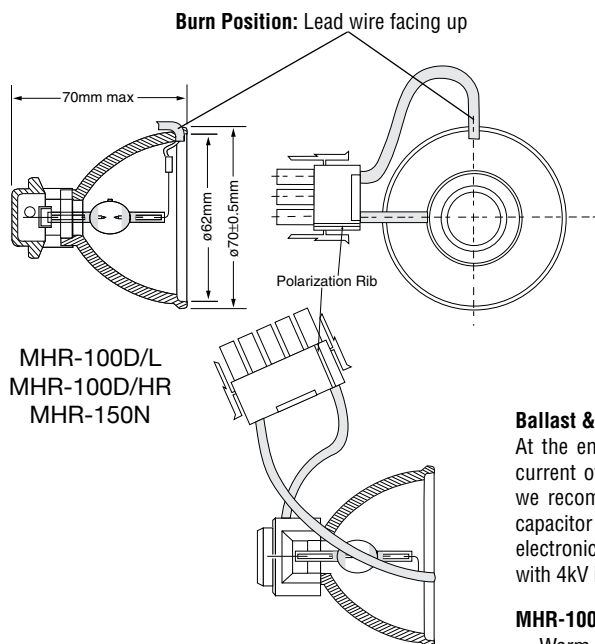
MHR-150N: 5 channel plug

MHR-250N: 5 channel plug

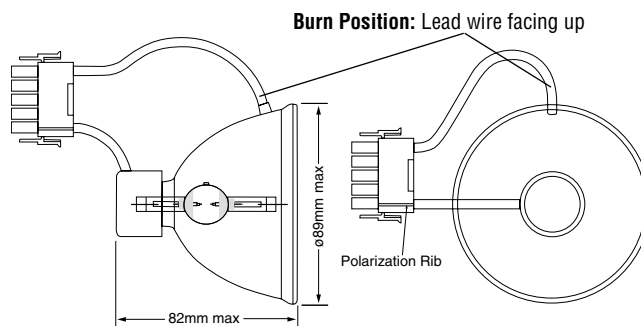


* Measurement taken with optical sphere

** Measurement taken through fiber bundle
▲ (ø13mm; distance 53mm)



MHR-100D/L
MHR-100D/HR
MHR-150N



MHR-250N

Ballast & Ignitor Information

At the end of their lifetime, metal halide lamps may show rectifier effects causing a rise in current of up to 3 times of the rated value thereby possibly damaging the ballast. Therefore we recommend to use only ballasts with integrated thermoswitch. For line compensation, a capacitor should be used. It is recommended to use ignitors with a timer switch. The use of electronic ballasts is possible if the operating frequency is below 250Hz. All lamps must be used with 4kV ignitor.

MHR-100D/L

Warm-up Time to 95% luminous flux: 2.5 minutes with standard ballast

Reignition Time: Approximately 1 minute

MHR-100D/HR

Warm-up Time to 95% luminous flux: 2.5 minutes with standard ballast

Hot re-strike version

MHR-150N

Warm-up Time: 3 minutes

Reignition Time: Approximately 2 minutes

MHR-250N

Warm-up Time: 10 minutes

Warning!

The lamp emits UV radiation which can cause serious eye and skin damage. Therefore, the lamp must be used only in closed lamp houses.

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Manage in Accord with Disposal Laws
See: www.lamprecycle.org

XENON SHORT ARC LAMPS

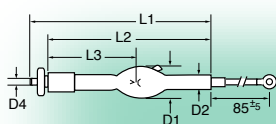
UXL/CXL SERIES

- 350- 2000 Watts
- Searchlight
- Followspot
- Projection

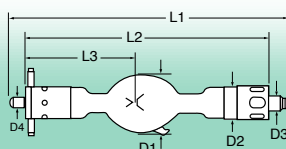
Please see Safety and
Handling Instructions
on page 85.



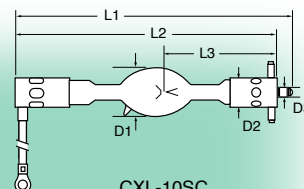
Watts	Ushio Ordering Code	Ushio Lamp Code	Rated Amps	Current Control Range A	Rated Voltage V	Forced Air Cooling m/sec	Arc Gap	Diameter mm				Length mm			Avg Life h
								(D1) max	(D2)	(D3)	(D4)	(L1)	(L2)	(L3)	
Xenon Short Arc															
350	5000350	UXL-351E-0	16	15-17	22	3-6	2.9	22	13	—	M8	133	120	66.5	1000
500	5000360	UXL-500D-0	25	17-25	20	4-6	4.0	29	20	M8P1.25	M8P1.25	234	204	95	1500(V) / 1200(H)
500	5000362	UXL-502HS-0	31	21-31	14	7-8	0.9	30	15	4	—	148	135	65	1200
550	5000368	UXL-553	25	17-25	22	7-8	3.1	30	15	M6P1.0	—	161	135	65	1500
1000	5000009	CXL-10SC	50	30-55	20	4-6	4.2	40	25	5/16-18 UNC	—	236	222	96.5	1500
1000	5001075	UXL-10SB	50	30-55	20	4-6	4.2	40	25	11	5/16-18 UNC	245	214	98.5	1500
1000	5000316	UXL-1000D-0	45	32-47	22	—	5.0	40	25	M10 P1.25	M8 P1.25	315	275	125	1500
1430	5001076	UXL-16SB	65	45-70	22	4-6	4.0	46.5	25	11	5/16-18 UNC	245	214	98.5	1500
1450	5001435	UXL-16SCB	65	45-70	22	4-6	4.0	46.5	25	with lead wire(L:270)	5/16-18 UNC	233	220	98.5	1500
1750	5000337	UXL-2000PR	70	56-70	25	6-9	6.0	45	25.4	—	10	365	320	145	2000
2000	5000012	CXL-20	80	60-85	25	7-10	6.0	55	27	M14x1.5	14	375	320	145	2400
2000	5001062	UXL-20FS	80	50-85	25	10-13	6.0	60	27	7.8	9.4	342	302	147	2000
2000	5000013	CXL-20R	70	50-85	29	10-13	6.0	60	27	12	10	370	320	145.0	2000



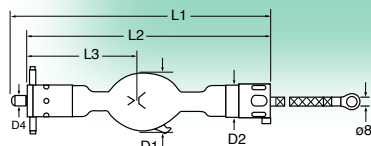
UXL-351E-0
Burn Position: Horizontal $\pm 15^\circ$



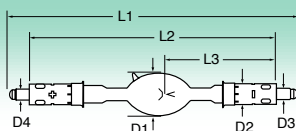
UXL-10SB / UXL-16SB
Burn Position: Horizontal $\pm 15^\circ$ Vertical $\pm 15^\circ$



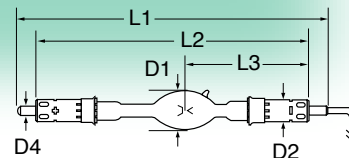
CXL-10SC
Burn Position: Horizontal $\pm 15^\circ$



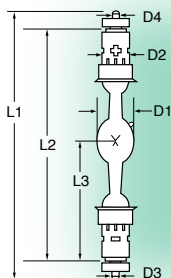
UXL-16SCB
Burn Position: Horizontal $\pm 15^\circ$ Vertical $\pm 15^\circ$



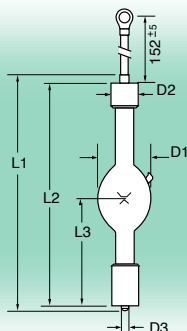
CXL-20
Burn Position: Horizontal $\pm 15^\circ$



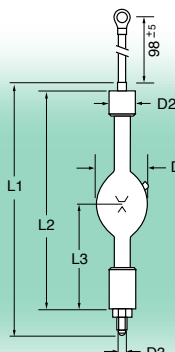
UXL-2000PR
Burn Position: Horizontal $\pm 10^\circ / \sim 45^\circ$



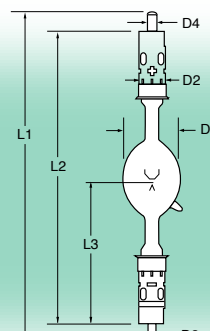
UXL-500D-0 / UXL-1000D-0
Burn Position:
Horizontal $\pm 15^\circ$ Vertical $\pm 15^\circ$



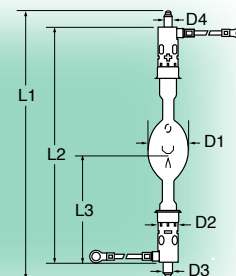
UXL-502HS-0
Burn Position: Vertical $\pm 15^\circ$



UXL-553
Burn Position:
Horizontal $\pm 15^\circ$ Vertical $\pm 15^\circ$



UXL-20FS
Burn Position:
Horizontal $\pm 15^\circ$ Vertical $\pm 15^\circ$



CXL-20R
Burn Position:
Horizontal $\pm 30^\circ$ Vertical $\pm 30^\circ$

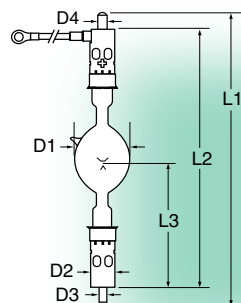
XENON SHORT ARC LAMPS

UXL/CXL SERIES

- 2000- 7000 Watts
- Searchlight
- Followspot
- Projection

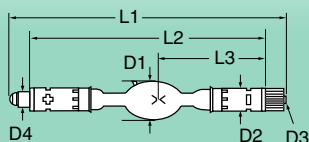
Please see Safety and
Handling Instructions
on page 85.

Watts	Ushio Ordering Code	Ushio Lamp Code	Rated Amps	Current Control Range A	Rated Voltage V	Forced Air Cooling m/sec	Arc Gap	Diameter mm				Length mm			Avg Life h
								(D1) max	(D2)	(D3)	(D4)	(L1)	(L2)	(L3)	
Xenon Short Arc															
2000	5001434	UXL-20SC	70	50-85	29	5-10	5.5	60	27	7.9	9.5	342	302	147.0	2000
2000	5000336	UXL-2000HA	80	60-85	25	7-10	6.0	52	27	M14 P1.5	14	370	320	145.0	2000
2000	5001063	UXL-2000FS	70	50-85	29	10-13	6.0	55	27	12	10	370	320	145.0	2000
2500	5001077	UXL-25SC	90	70-100	28	10-13	6.0	60	25	7.9	9.5	342	300	147.0	1500(V) / 1200(H)
3000	5000764	CXL-30R	60	100-110	28	10-13	7.0	70	27	14	13	428	382	171.0	1400
3000	5001079	UXL-30SC	100	60-110	30	5-10	6.0	60	27	7.9	9.5	342	302	147.0	1500(V) / 1200(H)
3000	5001064	UXL-3000FS	100	60-100	30	10-13	7.0	70	27	13	14	428	—	171.0	1200
4000	5000631	UXL-40SC	135	80-150	29	10-13	7.0	70	30	7.9	9.5	410	370	174.5	800
5000	5002044	UXL-50SCA	140	100-150	35	10-13	8.0	70	30	7.85	9.4	413	370	171.0	
6000	5000943	UXL-60SC	160	120-170	37	10-13	9.0	80	30	9.4	7.85	433	392	176.0	500
6000	5000860	CXL-60	160	110-170	37	10-13	9.0	80	30	14	14	417	381	170.0	600
7000	5000020	CXL-70	160	110-170	44	10-13	10.0	80	30	M14 P1.5	14	417	381	170.0	600
7000	5000634	UXL-70SC	160	120-170	42	10-13	10.0	80	30	7.9	9.4	433	392	171.0	500



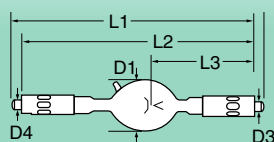
UXL-20SC

Burn Position:
Horizontal $\pm 30^\circ$
Vertical $\pm 30^\circ$



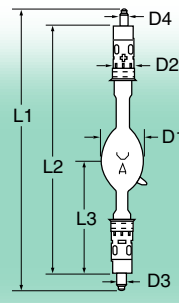
UXL-2000HA

Burn Position:
Horizontal $\pm 15^\circ$



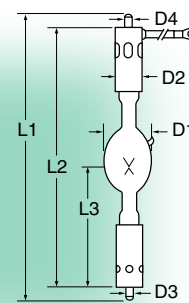
CXL-70

Burn Position:
Horizontal $\pm 15^\circ$



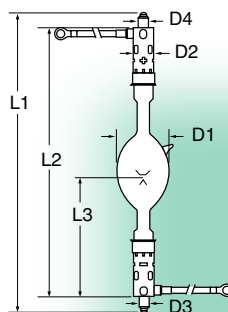
UXL-2000FS

Burn Position:
Horizontal $\pm 15^\circ$
Vertical $\pm 15^\circ$



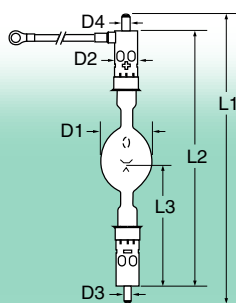
UXL-25SC
UXL-40SC

Burn Position:
Horizontal $\pm 15^\circ$
Vertical $\pm 15^\circ$



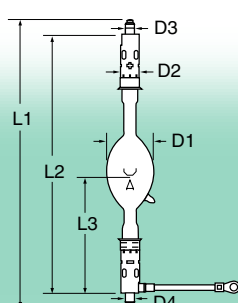
CXL-30R

Burn Position:
Horizontal $\pm 30^\circ$
Vertical $\pm 30^\circ$



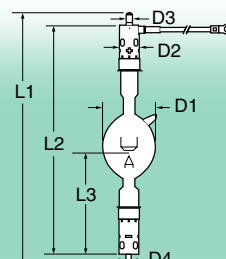
UXL-30SC

Burn Position:
Horizontal $\pm 30^\circ$
Vertical $\pm 30^\circ$



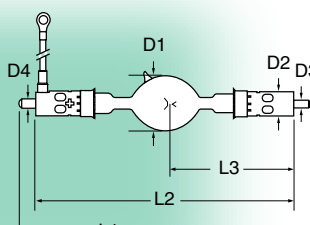
UXL-3000FS

Burn Position:
Horizontal $\pm 15^\circ$
Vertical



UXL-60SC
UXL-50SC

Burn Position:
Horizontal $\pm 15^\circ$
Vertical



UXL-70SC

Burn Position:
Horizontal $\pm 15^\circ / 45^\circ$

LAMP SPECIFICATION ABBREVIATIONS

RATINGS		DIMENSIONS		BURN POSITION (BURN POS)	
W	Watts	LL	Light Length (filament length)	BD	Base Down
V	Volts	LCL	Light Center Length	BD/30	Within 30° of vertical base down
kV	kilovolts	C-to-C	Contact to Contact	BD/45	Within 45° of vertical base down
A	Amps	OAL	Overall Average Length	BD/Hor	Base Down to Horizontal
h	hours	Dia	Diameter	BU	Base Up
K	kelvin	max	Maximum	BU/30	Within 30° of vertical base up
lm	lumens	All dimensions are approximate measurements in millimeters (mm)			
lm/W	lumens per Watt				
cd	candela				
cp	candle power				
CRI	Color Rendering Index				
m/sec	meters per second				

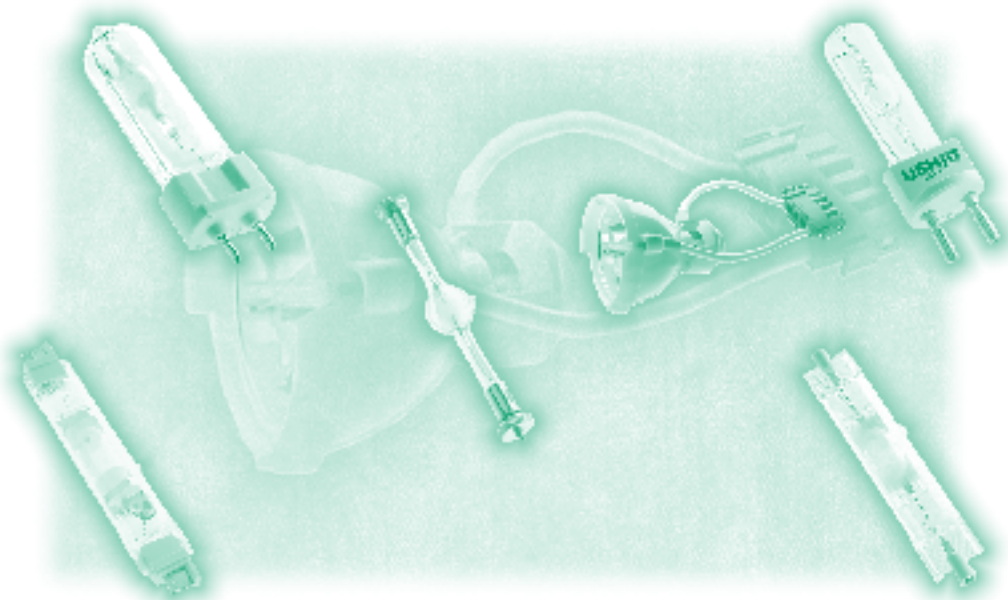
SAFETY AND HANDLING

TUNGSTEN HALOGEN AND INCANDESCENT LAMPS

- Always wear eye protection when installing Halogen lamps. Some Halogen lamps have internal pressures of several atmospheres.
- Halogen lamps operate at extremely high temperatures that can cause serious physical injuries and property damage.
- Only use Halogen lamps in Halogen-approved fixtures. Fixtures should fully contain any parts of the halogen lamp upon the event of a lamp burst.
- Do not use Halogen lamps in close proximity of paper, cloth or other combustible materials that can cause a fire hazard.
- Lamps are very fragile, do not drop, crush, bend or shake them.
- Do not touch the Halogen bulb surface or inside reflectors with your bare hands. Oils from skin can lead to breakage or shorten the life of the lamp. Use clean gloves or lint free cloth for installation and removal.
- Clean any dirt, oil, or lint away from the lamp with alcohol and a lint free cloth or tissue. Any foreign particles or materials on the bulb surface can cause hot spots on the bulb and result in lamp failure.
- Never touch the lamp when it is on, or soon after it has been turned off, as it is hot and will cause serious burns.
- Do not look directly at the operating lamp for any period of time; this may cause serious eye injury.
- Always turn off the electrical power before inserting, removing, or cleaning the lamp.
- Affix the lamp securely in the socket. Improper installations will cause electrical arcing, overheating and short life to lamp and socket. Replace lamp holders and sockets when necessary.
- Keep the temperature of the Halogen lamp seal below 350° C.
- Keep the temperature of the Halogen bulb wall above 250° C.
- Keep the temperature of the Halogen lamp bulb wall below 800° C.
- Make sure lamps of specified wattage and voltage are only used in appropriately rated fixtures. Unspecified use will lead to short lamp life, breakage and overheating of fixture.
- Lamps should not be operated beyond the total rated voltage. Avoid the use of dimmers that may drive your lamp over its rated voltage.
- Operate the lamp only in the indicated burn position. Failure to do so will lead to overheating and short life of the lamp.
- Use an external fuse when required.
- Do not allow one lamp to directly expose another. This may lead to overheating and shortened lamp life.

METAL HALIDE DISCHARGE LAMPS

- Always wear eye protection when installing Metal Halide discharge lamps. Some Metal Halide discharge lamps have high internal pressure even while cold.
- Metal Halide discharge lamps emit ultraviolet radiation which is harmful to eyes and skin!
- Metal Halide discharge lamps should only be used in enclosed fixtures with ultraviolet absorbing filter glass. Failure to do so may cause serious skin burn and eye damage. Do not use these lamps in fixtures where any un-filtered light is emitted from the fixture. Do not operate these lamps if the ultraviolet absorbing filter glass is broken or not installed.
- Metal Halide discharge lamps should only be operated in an enclosed fixture that safely contains all lamp parts in the event of a lamp burst or rupture. These lamps operate at a high internal pressure and at high temperatures. A lamp burst can occur causing physical injury and property damage.
- Lamps should never be operated beyond their rated useful life. The risk of a lamp burst increases with lamp age, temperature, improper operation and improper handling.
- Never bump, drop, apply excessive stress, or scratch the lamp. This could cause the lamp to burst! Do not operate any lamps with any traces of scratches, cracks, or physical damage.
- Never operate a lamp above or below its rated current or voltage. This may cause the lamp to leak or burst.
- Always turn off the electrical power before inserting, removing, or cleaning the lamp.
- Clean any dirt, oil, or lint away from the lamp with alcohol and a lint free cloth or tissue.
- Electrical connections should be clean and in good condition. Replace lamp holders and sockets when needed. Affix the lamp securely in the socket. Improper installations will cause electrical arcing, overheating and short life to lamp and socket.
- Never touch the lamp when it is on, or soon after it has been turned off, as it is hot and will cause serious burns. Lamps should be allowed to cool for a minimum of ten (10) minutes after the lamp is turned off.
- Do not use lamp in close proximity of paper, cloth or other combustible material that can cause a fire hazard.
- Do not look directly at the operating lamp for any period of time; this may cause serious eye injury.
- Metal Halide discharge lamps contain mercury. USHIO strives to preserve the environment and make efficient use of resources. Please refer to your local environmental laws regarding disposal and recycling of mercury containing lamps. For more information, please go to www.lamprecycle.org.



HIGH PRESSURE XENON ARC LAMPS

WARNING!

- Xenon arc lamps could burst when not in operation causing serious injuries! It is critical to follow safety instructions when handling Xenon arc lamps!
- Xenon arc lamps have a high internal pressure. Depending upon the lamp, the internal pressure can exceed 10 ATM or 147 PSI, even when not in operation.
- Always wear eye/face and body protection when handling Xenon arc lamps!
- Never bump, drop, apply excessive stress, or scratch the lamp. This could cause the lamp to burst!
- Always transport the lamp in the provided protective case or cover until installation!
- Save the protective case or cover and packaging materials (box) for lamps that have been used to their rated service life. Use the protective case when disposing of the lamps.
- Never touch the lamp when it is on, or soon after it has been turned off, as it is hot and will cause serious burns. Lamps should be allowed to cool for a minimum of ten (10) minutes after the lamp is turned off.
- Always operate the lamp in closed, protective housings.
- Do not look directly at the operating lamp for any length of time; this may cause serious eye injury.
- Do not use lamp in close proximity of paper, cloth or other combustible material that can cause a fire hazard.
- Some Xenon arc lamps produce Ozone that is considered toxic at relatively high concentration levels. Use ozone-producing lamps in lamp housings equipped with exhaust systems.
- Never operate a lamp above or below its rated current or voltage. This may cause the lamp to leak or burst.
- Affix the lamp in the correct polarity according to the lamp and fixture design.
- Affix lamps by hand tightening only. Do not use any tools to tighten nuts or the lamp itself. Any excessive stress to the lamp will cause a burst.
- Electrical connections should be clean and in good condition. Replace lamp holders and sockets when needed. Fix the lamp and its lead wire firmly to the terminals.
- Clean any dirt, oil, or lint away from the lamp with alcohol and a lint free cloth or tissue.
- Xenon arc lamps should not be used beyond their rated service life. Operation beyond the rated service life will cause the lamp to burst.
- The lamp must be operated under the specified conditions such as lamp amperage, voltage, and cooling conditions.
- Do not overcool the lamp. Air should never be directly forced on the bulb because uneven cooling will result.
- Recommended cooling methods are: air flow, N₂ gas flow, heat sink and an exhaust duct.
- The lamp base temperature must be kept below 200° C.

Xenon arc lamp disposal

- Xenon arc lamps must be disposed of in a careful and proper manner in order to prevent injury.
 1. Wear a protective mask, leather gloves and protective clothing when handling a spent lamp.
 2. Place the used lamp in its original protective case and original cardboard packaging (box) that was provided when the lamp was new.
 3. Firmly attach tape around the original cardboard box to seal the lamp securely.
 4. From approximately three (3) feet in height, drop the cardboard box, with the lamp and protective case inside, onto a hard floor to break the lamp.

The specifications in this publication supercede all previously published specifications and may be subject to change for design and specification improvement without prior notice.

LAMP SOCKETS

Sockets for Single and Double Ended Quartz Halogen Lamps

Order Code	Description Lead Wire Spec	Volts	Amps	Lamp Type
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Sockets for Single Ended Halogen Lamps Miniature Bipin — 4.0mm Pin Spacing

G4 Base — 0.7mm Pin Diameter

1000108	C-14A	1.00X150L (Teflon Leads)	24V 3A	JC, MR-11
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GZ4 Base — 1.0mm Pin Diameter

1000109	C-14B	0.75X150L	24V 3A	JC
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Miniature 2-Pin (Blade) Base — 5.33mm Pin Spacing

G5.3-4.8 Base — 0.5mm x 4.8mm Pin Dimensions

1000111	C-21	2.50X150L	125V 6A	JCR/M-50, 75, 10W
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2-Pin Base — 5.33mm Pin Spacing

GX5.3 or GU5.3 Base — 1.6mm Pin Diameter

1002142	C-33U	0.75X150L	24V 7A	MR-16, GU5.3
1000114	C-5	1.25X160L	125V 15A	JCD, MR-16
1000115	C-5(A)	1.25X300L	125V 15A	JCD, MR-16
1001414	S-221	(rim mount)		

Oval 2-Pin Base — 5.33mm Pin Spacing

GY5.3 Base — 1.56mm Flat Pin

1000116	C-5Y	1.25x160L	125V 15A	JCR-MR-16
1001415	S-331	(rim mount)		

G6.35 Base — 6.35mm Pin Spacing

G6.35 Base — 1.0mm Pin Diameter

1000687	J-6A	0.75X145L	125V 10A	JC, JCR
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G6.35 Base — 1.25mm Pin Diameter

1000681	J-11(A)	1.25X160L	125V 10A	JC, JCR
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GY6.35 Base — 1.25mm Pin Diameter

1000688	J-6B	0.75X145L	125V 10A	JC
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GZ6.35 Base — 1.0mm Pin Diameter

1000680	J-11	0.75X160L	125V 10A	JC, JCR
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2-Pin Vented Base — Low Voltage — 7.92mm Pin Spacing

GX7.9 Base — 3.2mm, 2.4mm Pin Diameters

1001413	S-201			JCR - MR-14
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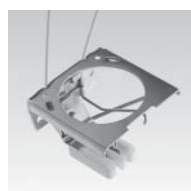
C-21



C-33U



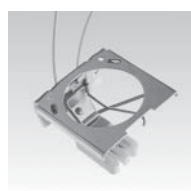
C-5



S-221



C-5Y



S-331



J-6A



S-201



J-11

LAMP SOCKETS

Interlight Specialty Bulbs
1-800-743-0005
www.interlight.biz

Sockets for Single and Double Ended Quartz Halogen Lamps

Order Code	Description Lead Wire Spec	Volts	Amps	Lamp Type
Sockets for Single Ended Halogen Lamps Medium 2-Pin Base — 9.53mm Pin Spacing				
G9.5 Base - 3.17mm Pin Diameter				
1002225	3.17 Contacts for J-10 Socket	250V	10A	
1000106	C-10 1.25X300L	125V	10A	JCD, JCV
1000112	C-3 1.25X300L	125V	10A	JCD, JCV
1000113	C-3(A) 1.25X1000L	125V	10A	JCD, JCV
1000679	J-10	250V	10A	JCD, JCV

2-Pin Prefocus Base — 9.53mm Pin Spacing

GY9.5 Base — 3.2mm, 2.4mm Pin Diameters

1002222	Contacts for J-9G Socket	250V	10A	
1000690	J-9G	250V	10A	JCD
1003123	J-9G/4 W/4" UL Leadwire	250V	10A	JCD
1002162	J-9G/PTA 3.17 Terminals	250V	10A	

2-Pin Base — 12.0mm Pin Spacing

G12 Base — 2.35mm Pin Diameter

1000638	G12/3801 Screw Fixing	230L	UHI	
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2-Pin Base — 22.22mm Pin Spacing

G22 Base — 6.35mm Pin Diameter

1003149	G22	1000V	20A	JS
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2-Pin Base — 38.1mm Pin Spacing

G38 Base — 11.1mm Pin Diameter

1003150	G38	1000V	40A	JS
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Minican Screw Base

E11 Base — 10.7mm Diameter Screw

1000683	J-12CS(A) 0.75X150L UL	125V	6A	JCV
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Medium Prefocus Base

P28 Base — 27.4mm Base Diameter

1001264	P28S Lamp Socket	250V	10A	JCS, JS
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Sockets for Double Ended Halogen Lamps

Recessed Single Contact Base

R7S Base — 7.0mm Base Diameter

1000110	C-16	W/O Leads	250V	10A	J, JP, JPD
1000117	C-8	2.00X150L	250V	10A	J, JP, JPD
1000677	J-1	2.00X300L UL	250V	10A	J, JP, JPD
1000686	J-3A	W/O Leads	220V	6A	J, JP, JPD



C-10



C-3



J-9G



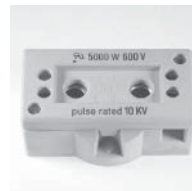
J-10



G-12/3801



G-22



G-38



C16



P28S



J-1



C8



J-3A