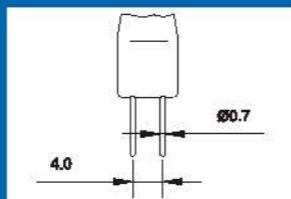




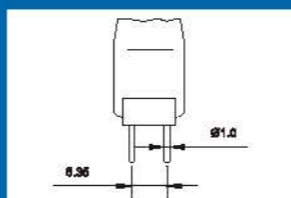
Base: G4
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03010	6	10	G4	100	Microprojector	Osram 64225 ESA
LT03011	6	20	G4	100	Microprojector	Osram 64250 ESB
LT03012	6	30	G4	100	Microprojector	Osram 64265, Philips 5761
LT03013	6	15	G4	100	Microprojector	Ushio 1000861, JC 6V/15W
LT03028	12	20	G4	100	Microprojector	Guerra 6518/3
LT03039	12	10	G4	100	Microprojector	Hikari JC12V-10W/G4
LT03045	12	5	G4	100	Microprojector	Hikari JC12V-5W/G4
LT03117	6	35	G4	50	Microscope, Dental	Osram 64275
LT03113	24	20	G4	2000	Microscope	Osram 64435U, Philips 13091
LT03122	6	5	G4	100	Microscope, Instrument	JC 6V/5W
LT03123	6	6	G4	100	Microscope, Instrument	JC 6V/6W
LT03124	12	30	G4	100	Microscope, Instrument	JC 12V/30W



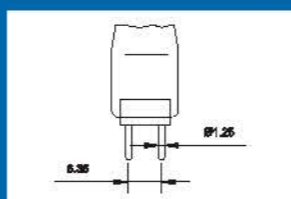
Base: G6.35
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03017	24	50	G6.35	1000	Microscope, O.T Light	Guerra 6419/4, HanauLux 56018576
LT03018	24	50	G6.35	2000	Microscope, O.T Light	Guerra 6419/5
LT03019	24	100	G6.35	300	Microscope, Dental Unit	Osram 64638 HLX
LT03023	22.8	40	G6.35	1000	O.T Light	Guerra 6419/3, HanauLux 56018769
LT03024	22.8	50	G6.35	1000	O.T light	Guerra 6419/3A, HanauLux 56018566
LT03025	22.8	110	G6.35	300	Microscope, O.T Light	Berchold-CZ 905-22, Guerra 6419/3B
LT03037	24	60	G6.35	1000	Microscope, O.T Light	JC-2pins
LT03078	24	40	G6.35	1000	Microscope, O.T Light	JC-2pins
LT03114	22.8	55	G6.35	1000	O.T Light	Berchold CZ 904-22
LT03115	22.8	250	G6.35	50	O.T Light	Berchold CZ 907-22
LT03116	10.8	30	G6.35	400	Microscope, Dental	JC-2pins
LT03130	24	25	G6.35	1000	O.T Light, Instrument	JC-2pins



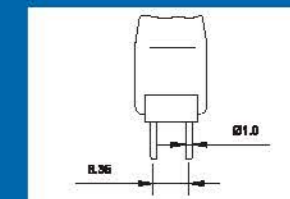
Base: GY6.35
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03043	12	50	GY6.35	2000	Dental Unit	Osram 64440
LT03041	12	60	GY6.35	2000	Dental Unit	JC-2pins



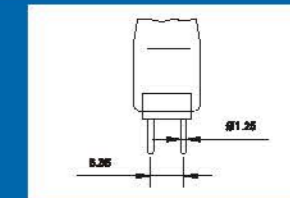
Base: G6.35
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03014	12	50	G6.35	50	Microprojector	BRL Osram 64610 HLX
LT03020	24	150	G6.35	50	Microscope, O.T Light	Osram 64640HLX
LT03027	12	100	G6.35	50	Microprojector	Osram 64625HLX, FCR
LT03029	22.8	150	G6.35	50	O.T Light	Guerra 6419/2A, Berchold CZ908-22
LT03030	22.8	150	G6.35	300	O.T Light	Guerra 6419/2A, Berchold CZ908-22
LT03147	22.8	250	G6.35	300	Microprojector	JC 2-Pins
LT03032	24	150	G6.35	300	Microscope, O.T Light	Osram 64642HLX, FDV
LT03035	24	250	G6.35	50	Microscope, Projector	Osram 64655 HLX
LT03042	36	400	G6.35	300	Projector	Osram 64663HLX, Philips 7787XHP
LT03069	17	95	G6.35	1000	Dental Unit	Philips 14623
LT03077	12	30	G6.35	50	Microscope, Projector	Osram 64261, Guerra 6520/3
LT03093	24	120	G6.35	100	Microscope, Dental Unit	JC 2-Pins
LT03094	24	55	G6.35	1000	O.T Light	Martin O.T-Lights
LT03112	12	35	G6.35	1000	O.T Light	Berchold CZ 940-12
LT03125	6	15	G6.35	100	Microscope, Instrument	JC 6V/15W
LT03126	6	30	G6.35	100	Microscope, Instrument	JC 6V/30W
LT03127	24	250	G6.35	300	O.T light, Projector	Osram 64657
LT03128	24	275	G6.35	75	Projector	Philips 13700 FCD, Osram HLX64656
LT03129	24	300	G6.35	50	Projector	Ushio KLS JC24V-300W LL



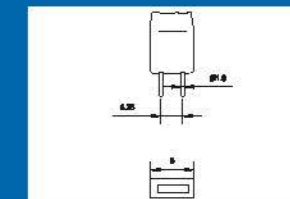
Base: G6.35/GY6.35
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03021	12	50	GY6.35	50	Microscope, Dental Unit	Osram 64604, Philips 13512
LT03022	12	75	GY6.35	1000	Microscope, Dental Unit	Guerra 6419/AX8
LT03040	12	150	GY6.35	100	Microscope, Dental Unit	JC 2-Pins
LT03033	15	150	G6.35	50	Microscope, O.T Light	Osram 64633 HLX
LT03036	14	35	G6.35	50	Endoscope, Microscope	JC 2-Pins
LT03099	22.8	150	G6.35	300	Microscope, O.T Light	Martin O.T Lights Vertical Filament



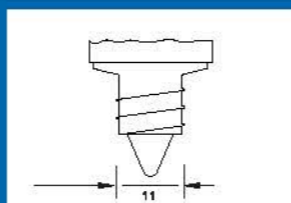
Base: G6.35
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03034	24	150	G6.35	300	O.T Light	Osram 64642HLX Blue Coating



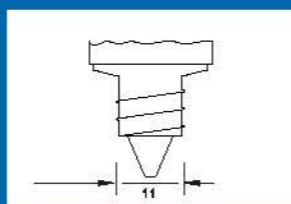
Base: E11
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03056	24	50	E11	1000	O.T Light	Guerra 6801/1
LT03057	24	40	E11	1000	O.T Light	Guerra 6801/0
LT03076	24	60	E11	1000	O.T Light	Guerra 6801/2
LT03074	24	100	E11	300	O.T Light	Guerra 6801/4
LT03148	24	150	E11	300	Instrument	JC 24V150W



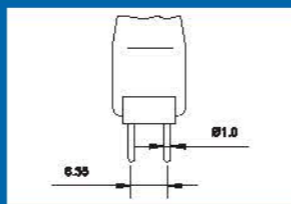
Base: E11
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03149	24	40	E11	1000	O.T Light	SH40



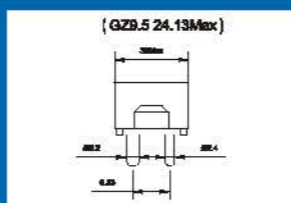
Base: G6.35
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03079	24	55	G6.35	1000	O.T Light	Guerra 6702/2



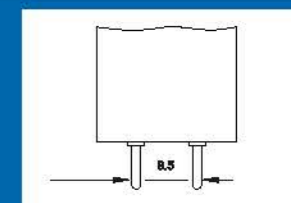
Base: GY9.5/GZ9.5
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03058	24	150	GY9.5	100	Dental Unit, O.T Light	Osram 64643, Guerra 5722/1
LT03061	6.8	45	GY9.5	50	O.T Light	JC&GY9.5 Base
LT03071	17	95	GY9.5	1000	Dental Unit	JC&GY9.5 Base
LT03072	12	100	GY9.5	50	Dental Unit, O.T Light	Osram 64628, Philips 5973
LT03087	24	50	GY9.5	1000	Dental Unit	Faro S2k
LT03138	10	80	GY9.5	1000	Lab, Microfilm Reader	DDJ/DZZ USHIO 1000171
LT03121	24	250	GY9.5	300	Dental Unit, O.T Light	Osram 64654
LT03139	32	200	GY9.5	200	Projector, Instrument	1945USA
LT03143	6.6	200	GZ9.5	300	Aircraft	EZL Osram 58750, Philips 6372



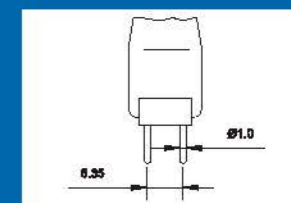
Base: GW9.5
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03063	20	180	GW9.5	300	Dental Unit, O.T Light	Steris-093926-047



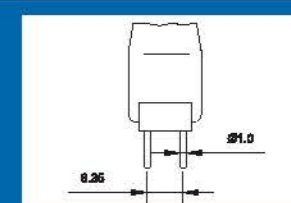
Base: G6.35
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03059	24	50	G6.35	1000	O.T Light	G6.35-Special Base



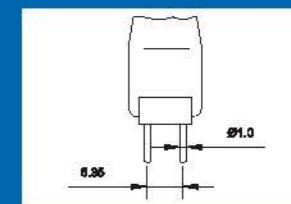
Base: G6.35
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03150	12	50	G6.35	1000	O.T Light	Nikon 12V 50W



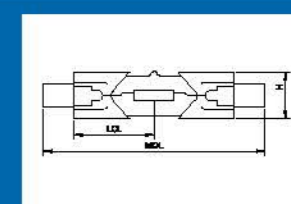
Base: G6.35
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03075	24	50	G6.35	1000	O.T Light	SLD-0805 Operating Light



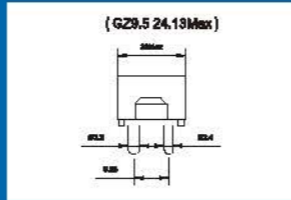
Base: R7S
Low voltage double ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03062	25	150	R7S	2000	Dental Unit	Ushio 1001106 JPD
LT03140	22.8	75	R7S	1000	Hanaulux O.T Light	Hanaulux 56018366



Base: GY9.5
Mains voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03064	240	650	GY9.5	50	Projector	Osram Sylvania 54839 DYR



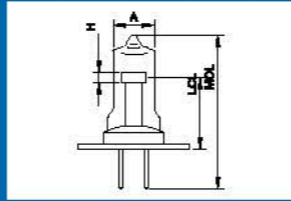
Base: GY9.5
Mains voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03065	120	600	GY9.5	75	Projector	Ushio 1000246



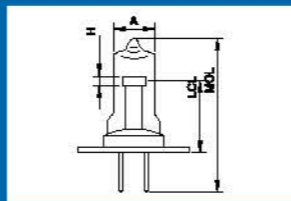
Base: Special
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03068	12	50	Special	100	Topcon Slit Lamp	Topcon ACP-8



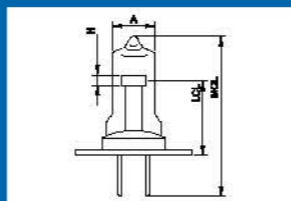
Base: Special
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03066	6	20	Special	100	Topcon Slit Lamp	SL1E,2E,3E,4E,7E,SLD2,D4,SL3G



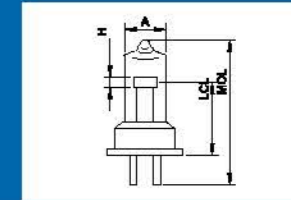
Base: Special
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03067	12	30	Special	100	Topcon Slit Lamp	Topcon SLD7 D8
LT03102	12	50	Special	100	Topcon Slit Lamp	Topcon Slit Lamp



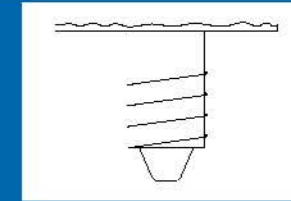
Base: Speical
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03152	12	50	Special	50	Topcon Slit Lamp	Topcon OMS-610



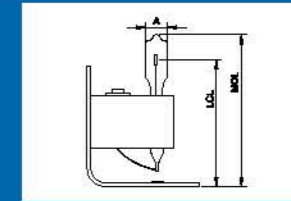
Base: P44S
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03104	12	50	P44S	50	Microscope, Slit Lamp	Guerra 2158/H, Inami 50



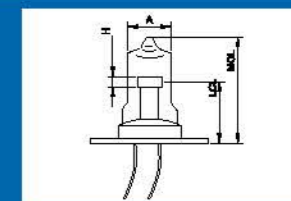
Base: Speical
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03153	12	50	Speical	50	Leica Microscope	Leica 384643



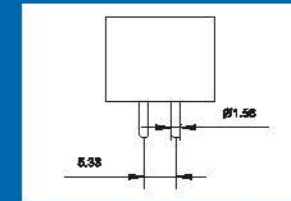
Base: Speical
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03096	24	150	Special	500	Dental Unit	KAVO Dental Unit
LT03097	17	95	Special	500	Dental Unit	KAVO Dental Unit



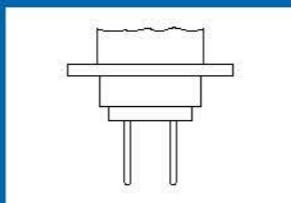
Base: G5.3
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03095	82	360	G5.3	100	Projector	EYB



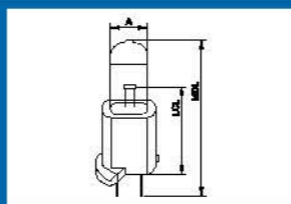
Base: PG22
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03089	6	20	PG22	100	Microscope, Slit Lamp	Osram 64251
LT03090	12	30	PG22	100	Microscope, Slit Lamp	Osram 64260
LT03091	12	50	PG22	100	Microscope, Slit Lamp	Osram 64609
LT03092	12	100	PG22	100	Microscope, Slit Lamp	Osram 64626
LT03119	6	10	PG22	100	Microscope, Slit Lamp	Osram 64222



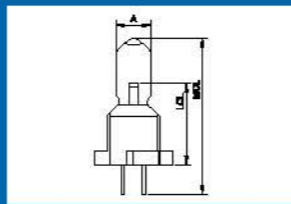
Base: Special
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03031	21.5	130	Special	300	Hanulux O.T Light	Hanulux Blue 80, 56053026



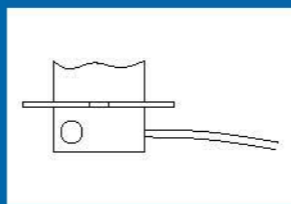
Base: Special
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03060	22.8	90	Special	300	Hanulux O.T Light	Hanulux #H56053198 Blue 130/90
LT03046	22.8	110	Special	300	Hanulux O.T Light	Hanulux O.T Light Bulb



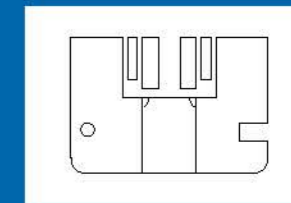
Base: PK22S
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03100/H3	12	55	PK22S	2000	Dental Unit	Osram 64151
LT03101	24	70	PK22S	2000	Dental Unit	Osram 64156



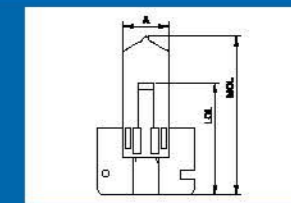
Base: X-514
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03108	24	120	X-514	1000	O.T Light	ALMECA-002/Hanulux 5606950
LT03110	24	100	X-514	1000	O.T Light	Hanulux 5606951
LT03111	24	140	X-514	1000	O.T Light	Hanulux 5606990



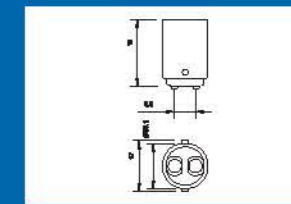
Base: X-514SP
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03109	23	100	X-514SP	1000	O.T Light	ECL-0001



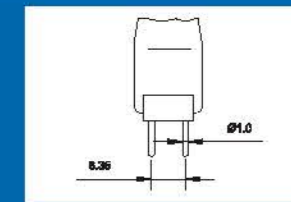
Base: BA15D
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03142	24	35	BA15D	1000	O.T Light	Higuchi Q35CL/DC-24V



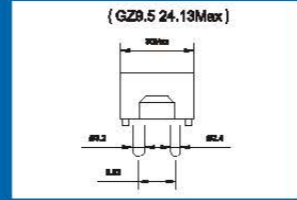
Base: G6.35
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03141	22.7	180	G6.35	300	NOVO O.T Light	BSS 1089



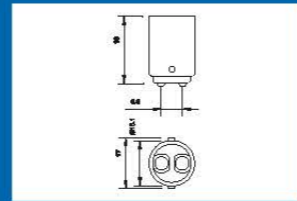
Base: GY9.5
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03146	120	1000	GY9.5	250	Airport Runway Light, Studio, Stage	Philips 69951/BP



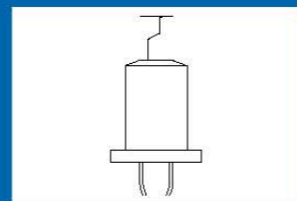
Base: BA15D
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03144	24	40	BA15D	600	O.T Light	0574-3H Guerra Axial



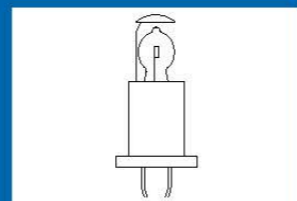
Base: Speical
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03145	24	50	Speical	600	Hanaulux O.T Light	Hanaulux Blue 30



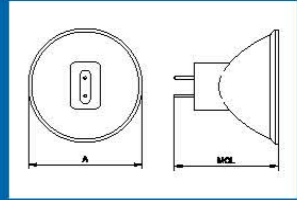
Base: Speical
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT03154	22.8	40	Speical	800	Merivaara O.T Light	Merilux 485761



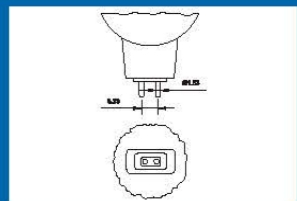
**Base: GZ4/GZ6.35/
GY5.3/GX5.3**
Low voltage with faceted reflector



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05010	6	10	GZ4	100	Microscope, Projector	Hikari 00188
LT05011	6	20	GZ4	100	Microscope, Projector	Philips JCR/M-6-20/F
LT05012	6	15	GZ4	100	Microscope, Projector	MR11 Faceted Reflector
LT05127	6	30	GZ4	100	Projector	MR11 Faceted Reflector
LT05017	12	10	GZ4	100	Projector	Hikari 00197 JCR-8297
LT05018	12	15	GZ4	100	Projector	Hikari JCR-8299P 00201
LT05019	12	20	GZ4	100	Projector	Osram 44890 WFL
LT05024	12	50	GZ4	50	Microscope, Endoscope	MR11 Faceted Reflector
LT05029	12	75	GZ4	25	Gastroscope Light Source	MR11 Faceted Reflector
LT05033	12	100	GZ4	50	Gastroscope Light Source	MR11 Faceted Reflector
LT05028	12	75	GZ6.35	50	Gastroscope Light Source	MR16 Faceted Reflector
LT05034	12	100	GZ6.35	50	Gastroscope Light Source	MR16 Faceted Reflector
LT05023	12	50	GZ6.35	50	Microscope, Endoscope	MR16 Faceted Reflector
LT05104	6	9	GZ4	250	Leica Microscope	Philips 13529
LT05105	13.8	25	GZ4	500	Microfilm, Reader	GE FLT
LT05100	120	150	GY5.3	12	Dental, Projector	GE 43756 ESD
LT05124	82	360	GY5.3	75	Projector	ENX 82V360W GY5.3
LT05125	120	300	GY5.3	35	Projector	ELH 120V300W GY5.3 MR16
LT05126	82	410	GY5.3	38	Projector	FXL 82V410W GY5.3 MR16
LT05096	82	250	GX5.3	50	Projector	EVW 82V250W



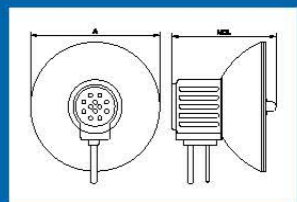
Base: GX5.3
Mains voltage with MR13 faceted reflector



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05097	82	300	GX5.3	35	Projector	EXR 82V300W
LT05123	82	300	GX5.3	70	Projector	FHS 82V300W GX5.3



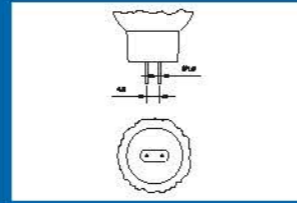
Base: GX7.9/G7.9
Low/mains voltage with smooth reflector



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05076	21	150	GX7.9	25	Microscope, Projector	DNF Osram 93631, Guerra 5330/1
LT05077	120	150	G7.9	12	Microscope, Projector	DNE Guerra 5330/2



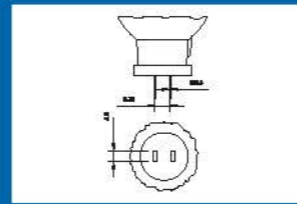
Base: GZ4/GY5.3
Low voltage with smooth reflector



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05013	8	20	GZ4	50	Microscope, Dental	Osram 64255, Guerra 5331/1
LT05014	8	50	GZ4	25	Microscope, Dental	Osram 64605
LT05015	10	52	GZ4	50	Dental	Philips 13298
LT05022	12	50	GZ4	50	Microscope, Dental	MR11 with Smooth Reflector
LT05026	12	75	GZ4	25	Dental	Philips 14552
LT05031	12	100	GZ4	50	Microscope, Dental	MR11 with Smooth Reflector
LT05036	14	35	GZ4	25	Dental	Philips 13165
LT05078	13	100	GZ4	50	Dental	MR11 with Smooth Reflector
LT05081	120	250	GY5.3	50	Microscope, Dental	Dentsply Model Traid 1000&2000



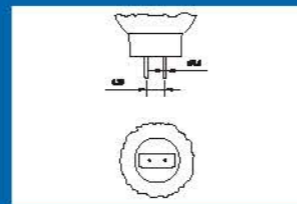
Base: G5.3-4.8
Low voltage with MR11 smooth reflector



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05027	12	75	G5.3-4.8	25	Dental	Osram 64617, Philips 13865
LT05032	12	100	G5.3-4.8	25	Dental	Osram 64624, Philips 12037
LT05083	12	80	G5.3-4.8	50	Dental	JCR/M12V80W



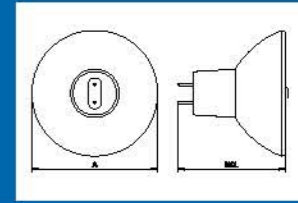
Base: GZ6.35
Low voltage with MR16 smooth reflector



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05042	15	150	GZ6.35	100	Spectrum Therapeutic Device	MR16 Aluminum Bowl
LT05043	24	250	GZ6.35	50	Spectrum Therapeutic Device	MR16 Aluminum Bowl
LT05091	24	150	GZ6.35	50	Spectrum Therapeutic Device	MR16 Aluminum Bowl



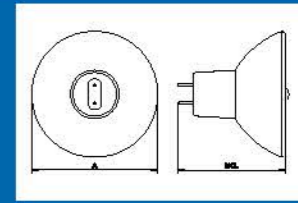
Base: GZ6.35/GX5.3
Low voltage with MR16 smooth reflector



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Smooth Reference
LT05021	12	50	GZ6.35	50	Microscope, Dental	FUJI EYE MR16
LT05025	12	75	GZ6.35	50	Microscope	EFN Osram 64615 HLX, Philips 8853
LT05030	12	100	GZ6.35	50	Microscope	EFP Osram 64627HLX
LT05037	15	150	GZ6.35	50	Microscope, Dental	EFR Osram 64634
LT05040	24	150	GZ6.35	50	Microscope, Dental	MR16 with Smooth Reflector
LT05085	8	50	GZ6.35	50	Microscope, Dental	EFM Osram 64607
LT05047	22.8	40	GZ6.35	300	O.T Light, Projector	MR16 with Smooth Reflector
LT05048	22.8	50	GZ6.35	300	O.T Light, Projector	Admeco O.T-Light
LT05107	24	50	GZ6.35	1000	O.T Light	MR11 with Smooth Reflector
LT05108	100	150	GZ6.35	50	Projector, Instrument	KLS 100V150W
LT05120	24	40	GZ6.35	300	O.T Light	JCR 24V40W MR16
LT05121	24	50	GZ6.35	300	O.T Light	JCR 24V50W MR16
LT05035	13.8	50	GX5.3	50	Microscope, Dental	EPZ Osram 64608, Philips 13189
LT05038	20	150	GX5.3	500	Microscope, Dental	DDL Osram 64660
LT05039	21	150	GX5.3	200	Microscope, Dental	EKE Osram 93638
LT05041	24	250	GX5.3	50	Microscope, Dental	ELC Osram 64653HLX, Philips 13163
LT05082	24	200	GX5.3	50	Microscope, Dental	EJL Philips 13164
LT05084	30	50	GX5.3	25	Projector	ENZ
LT05016	10.8	30	GX5.3	50	Microscope, Dental	EKZ Ushio 1000315
LT05047/A	22.8	40	GX5.3	300	Microscope, Dental	MR16 with Smooth Reflector
LT05048/A	22.8	50	GX5.3	300	Projector	Philips 13938 XHP
LT05101	13.8	30	GX5.3	50	Projector	FJX Philips 13155
LT05109	14.5	90	GX5.3	500	Projector	EPX/EPV Osram 64619, Philips 13186
LT05110	13.8	85	GX5.3	1000	Projector	DED Osram 64618, Philips 13194
LT05111	19	80	GX5.3	50	Microscope, Microfilm Reader	DDM
LT05106	19.7	200	GX5.3	500	Projector	H111
LT05112	21.5	130	GX5.3		Cold Light Source, Microscope	MR11 with Smooth Reflector
LT05122	6.6	6	GX5.3	1500	Aircraft	EXT Philips 6142



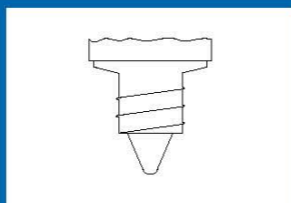
Base: GZ6.35/GX5.3
Low voltage with MR16 smooth reflector



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Smooth Reference
LT05044	12	35	GZ6.35	50	Spectrum Therapeutic Device	MR16 with Golden Reflector
LT05045	15	150	GZ6.35	50	Spectrum Therapeutic Device	Osram 64635HLX Golden
LT05092	24	150	GZ6.35	50	Spectrum Therapeutic Device	MR16 with Golden Reflector
LT05114	12	100	GZ6.35	50	Spectrum Therapeutic Device	MR16 with Golden Reflector
LT05046	24	250	GX5.3	50	Spectrum Therapeutic Device	MR16 with Golden Reflector
LT05113	21	150	GX5.3	50	Spectrum Therapeutic Device	MR16 with Golden Reflector



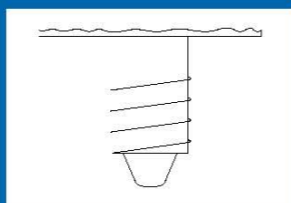
Base: E10
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05020	8	10	E10	500	Microscope, Projector	Guerra 7114/5



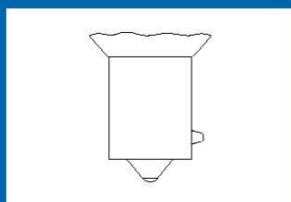
Base: P44S
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05056	6	27	P44S	100	Ophthalmic Slit Lamp	Haag Streit 900/930, Guerra 2518/3



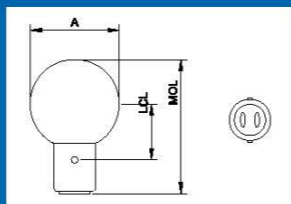
Base: BA9S
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05080	8	15	BA9S	50	Microscope, Projector	EL-38



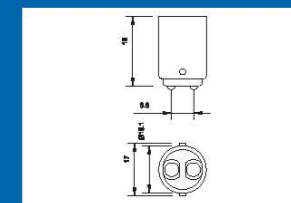
Base: BX22D
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05098	24	50	BX22D	700	O.T Light	Guerra 0079/1, Hanaulux 56016678
LT05129	220	50	BX22D	700	O.T Light	Guerra 0079/3, Hanaulux 56018250



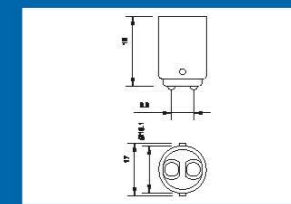
Base: BA15D
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05049	12	25	BA15D	400	O.T Light	Hanaulux 56016191, Guerra 0376/7
LT05050	12	35	BA15D	400	O.T Light	Guerra 0376/9, R.16192
LT05051	24	25	BA15D	500	O.T Light	Hanaulux 56016164, Guerra 0376/1
LT05052	24	30	BA15D	600	O.T Light	Guerra 0376/2, A.6004
LT05053	24	40	BA15D	600	O.T Light	Hanaulux 56016372, Guerra 0376/4
LT05054	24	50	BA15D	600	O.T Light	Guerra 0376/6
LT05086	110	30	BA15D	400	Hanaulux O.T Light	Hanaulux 56016170
LT05087	125	30	BA15D	400	Hanaulux O.T Light	Hanaulux 56016238
LT05088	32	40	BA15D	400	Hanaulux O.T Light	Hanaulux 56016579
LT05089	50	30	BA15D	400	Hanaulux O.T Light	Hanaulux 56018505
LT05093	12	20	BA15D	1000	O.T Light	Dr.Mach 1820/91 Lamp
LT05115	12	30	BA15D	400	O.T Light	DC Bow Silverl
LT05116	24	35	BA15D	600	O.T Light	Guerra 0376/2



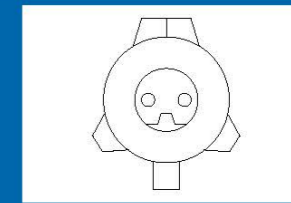
Base: BA15D
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05099	24	40	BA15D	600	O.T Light	Guerra 0178/3F



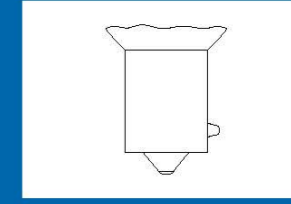
Base: P47D
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05102	6	30	P47D	80	Microscope	Zeiss Wotan-390158



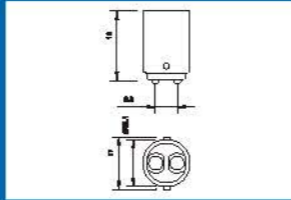
Base: BA9S
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05079	8	12	BA9S	50	Microscope, Projector	EL-2B



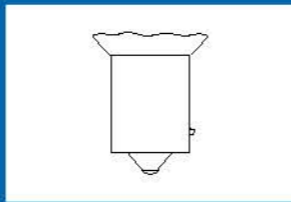
Base: BA15D
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05062	6	15	BA15D	100	Microscope Lamp, Projector	Guerra 3893/1
LT05063	6	18	BA15D	100	Microscope Lamp, Projector	Guerra 3893/2
LT05064	9	18	BA15D	100	Microscope Lamp, Projector	Guerra 3893/3
LT05065	9	20	BA15D	100	Microscope Lamp, Projector	Guerra 3893/4
LT05094	6	10	BA15D	100	Microscope Lamp, Projector	OP2801



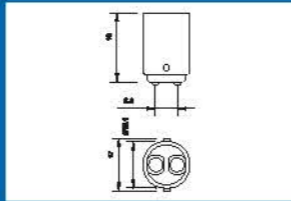
Base: BA15S
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05066	6	15	BA15S	100	Microscope Lamp, Projector	Guerra 3894/2
LT05067	9	18	BA15S	100	Microscope Lamp, Projector	Guerra 3894/1



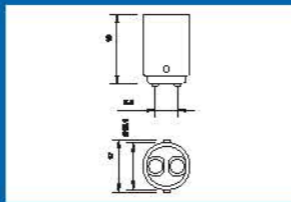
Base: BA15D
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05068	120	20	BA15D	200	Microscope Lamp	Guerra 4638
LT05069	120	30	BA15D	200	Microscope Lamp	Guerra 4639
LT05070	220	20	BA15D	200	Microscope Lamp	Guerra 4637/SP (stopped produced)
LT05071	220	30	BA15D	200	Microscope Lamp	Guerra 4637/SP (stopped produced)



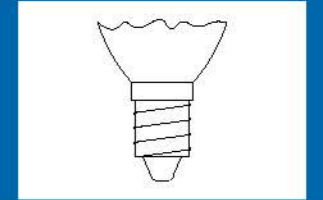
Base: BA15D
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05072	120	20	BA15D	300	Microscope Lamp	Guerra 4843
LT05073	120	30	BA15D	200	Microscope Lamp	Guerra 4842
LT05074	220	20	BA15D	300	Microscope Lamp	Guerra 4841/NK (stopped produced)
LT05075	220	30	BA15D	200	Microscope Lamp	Guerra 4840/NK (stopped produced)



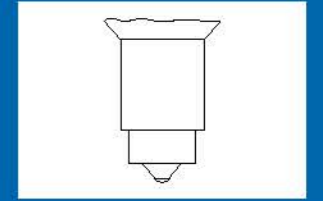
Base: E14
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05055	6	27	E14	100	Ophthalmic Slit Lamp	Haag Streit 360 Guerra 1861/1
LT05057	6	50	E14	120	Ophthalmic Slit Lamp	Guerra 1861/3



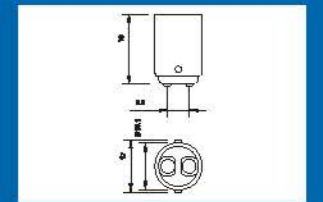
Base: MB16
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05058	6	15	MB16	100	Microscope Lamp	Guerra 3350/1, Narva 67271
LT05059	6	30	MB16	100	Microscope Lamp	Microscope Bulb



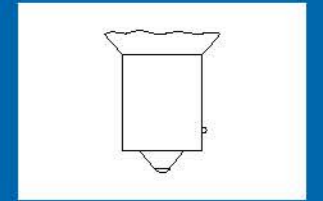
Base: BA15D
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05060	6	15	BA15D	100	Microscope Lamp	Guerra 3430/1
LT05061	6	30	BA15D	100	Microscope Lamp	Guerra 3430/2



Base: BA15S
Low voltage single ended



Order Code	Volts	Watts	Base	Life Time(hrs)	Main Application	Cross Reference
LT05095	12	6	BA15S	100	Microscope, Ophthalmic	Philips 399N

Order Code	Volts	Watts	Base	LifeTime(hrs)	Main Application	Cross Reference	Pic
LT-X250A-D	14-21	250	13mm	500	Microfilm, Stage light, Search light, Projection, Cold light Source	Single End	No.30
LT-X250B-D	14-21	250	15mm	500		Single End	
LT-X350A-D	14-21	350	13mm	500		Single End	
LT-X350A-D	14-21	350	15mm	500		Single End	

Order Code	Volts	Watts	Base	LifeTime(hrs)	Main Application	Cross Reference	Pic
LT-X250A-DP	14-21	250	13mm	500	Microfilm, Stage light, Search light, Projection, Cold light Source	Single End	No.31
LT-X250B-DP	14-21	250	15mm	500		Single End	
LT-X350A-DP	14-21	350	13mm	500		Single End	
LT-X350A-DP	14-21	350	15mm	500		Single End	

Order Code	Volts	Watts	Base	LifeTime(hrs)	Main Application	Cross Reference	Pic
LT-X250A-S	14-21	250	13mm	500	Microfilm, Stage light, Search light, Projection, Cold light Source	Double Ends	No.32
LT-X250B-S	14-21	250	15mm	500		Double Ends	
LT-X350A-S	14-21	350	13mm	500		Double Ends	
LT-X350A-S	14-21	350	15mm	500		Double Ends	

Order Code	Volts	Watts	Base	LifeTime(hrs)	Main Application	Cross Reference	Pic
LT-X250A-SP	14-21	250	13mm	500	Microfilm, Stage light, Search light, Projection, Cold light Source	Double Ends	No.33
LT-X250B-SP	14-21	250	15mm	500		Double Ends	
LT-X350A-SP	14-21	350	13mm	500		Double Ends	
LT-X350A-SP	14-21	350	15mm	500		Double Ends	

Order Code	Volts	Watts	Base	LifeTime(hrs)	Main Application	Cross Reference	Pic
LT-H1000	220	1000	Special	1000	Infrared heating	Double Ends	No.34
LTMA001	12	10	Special	2000	MA4210 Urinalysis	Double Ends	No.35



No.30



No.31



No.32



No.33



No.34



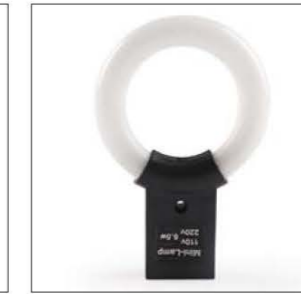
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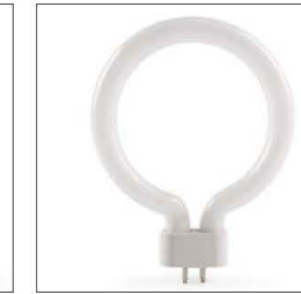
10W ADL-2P



10W ADL-4P



70 ADL



80 BDL-4P



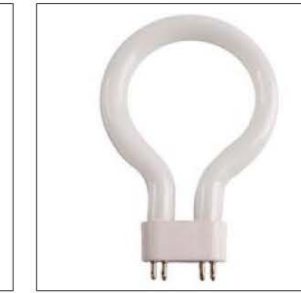
85 BDL-2P



92 ADL 365MM UV



92 ADL-2P



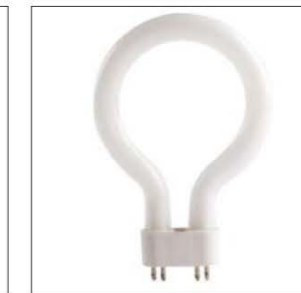
SY973-510



92 ADL 4P



92 ADL-N



92 BDL 4P



FCL 9EX



RF92 220V AC HX LAMP



RF100 220V10W



LED RING TUBE 220V3.8W



YZ20BT132



Osram 18W/71



Philips TL 20W/52

Order Code	Volt(V)	Amp(A)	Life Time(hrs)	Main Application	Cross Reference
LT035	2.5	0.7	20	Fiber Optical Laryngoscope	Heine 035
LT037	2.5	0.82	20	Otoscope	Heine 037
LT056	2.5	0.4	20	Otoscope	Heine 056
LT059	2.5	0.4	20	Optical Laryngoscope	Heine 059
LT068	6	1.7	35	Headlight	Heine 068
LT069	2.5	0.69	20	Ophthalmoscope	Heine 069
LT070	3.5	0.69	20	Ophthalmoscope	Heine 070
LT03000	3.5	0.72	20	Otoscope	Welch Allyn 03000
LT03100	3.5	0.72	20	Otoscope	Welch Allyn 03100



Order Code	Volt(V)	Amp(A)	Life Time(hrs)	Main Application	Cross Reference
LT03400	2.5	0.64	20	Otoscope	Welch Allyn 03400
LT04400	2.5	0.64	20	Ophthalmoscope	Welch Allyn 04400
LT04700	2.5	0.28	20	Child Laryngoscope	Welch Allyn 04700
LT04800	2.5	0.38	20	Adult Laryngoscope	Welch Allyn 04800
LT04900	3.5	0.72	20	Ophthalmoscope	Welch Allyn 04900
LT06000	2.5	0.66	20	Fiber Optical Laryngoscope	Welch Allyn 06000
LT07800	6	0.71	75	Vaginal Specula Illuminator	Welch Allyn 07800
LT525	2.5	0.7	20	Optical Laryngoscope	MAJ525



Order Code	Volt(V)	Amp(A)	Life Time(hrs)	Main Application	Cross Reference
LT049	3.5	0.72	20	Otoscope	Heine 049
LT10421	2.7		20	Otoscope	Riester 10421
LT00200	2.5	0.35	15	Otoscope	Welch Allyn 00200
LT044	3.5	0.7	20	Otoscope	Heine 044
LT078	3.5	0.77	15	Otoscope	Heine 078
LT086	3.5	0.69	15	Ophthalmoscope	Heine 086
LT10607	3.5	0.72	15	Otoscope	Riester 10607



Order Code	Volt(V)	Amp(A)	Life Time(hrs)	Main Application	Cross Reference
LT10608	3.5	0.69	20	Otoscope&Ophthalmoscope	Riester 10608
LT7058	3.5	0.65	50	Fiber Otoscope	Keeler 7058
LT03700	3.5	0.7	40	Retinoscope	Welch Allyn 03700
LT03800	3.5	0.95	25	Ophthalmoscope	Welch Allyn 03800
LT06200	3.5	0.63	80	Audio Microscope	Welch Allyn 06200
LT06500	3.5	0.78	15	Otoscope&Ophthalmoscope	Welch Allyn 06500
LT8200	3.5	0.75	50	Otoscope&Ophthalmoscope	Welch Allyn 08200



Order Code	Volt(V)	Amp(A)	Life Time(hrs)	Main Application	Cross Reference
LT106	2.5	0.64	20	Ophthalmoscope	X-01.88.106
LT110	2.5	0.52	50	Otoscope Mini 3000	X-01.88.110
LT00300	3.5	0.81	20	Laryngoscope Lamp	Welch Allyn 00300
LT03900	2.5	0.66	20	Ophthalmoscope	Welch Allyn 03900
LT08500	3.6	1.1	30	Diagnostic Instrument	Welch Allyn 08500
LT10605	3.5	0.69	15	Ophthalmoscope	Riester 10605



Volts	Watts	Life Time(hrs)	Main Application	Cross Reference
12	20	2000	Biochemical Analyzer	Hitachi 7020/7060/7170/7180/7600
12	20	2000	Biochemical Analyzer	Olympus AU400/AU640/AU5400
6	10	2000	Biochemical Analyzer	Bayer RA-50
12	20	2000	Biochemical Analyzer	Japan TokyoTMS-1024



Hitachi 7020/7060/7170/7180/7600



Olympus AU-400/640/5400



Bayer RA-50



Japan Tokyo TMS-1024

Voltage(V)	Power(W)	Life Time(hrs)	Main Application	Cross Reference
6	10	2000	Biochemical Analyzer	Rayto RT-1904
12	100	2000	Biochemical Analyzer	Olympus AU2700/5400
12	20	2000	Biochemical Analyzer	Sysmex/Chemix-180, BX3010-4000, Rando240, Furuno CA400
12	20	2000	Biochemical Analyzer	Erba XL-600/640



Rayto RT-1904



Olympus AU2700/5400



Sysmex/Chemix-180, BX3010-4000, Rando240, Furuno CA400



Erba XL-600/640

Voltage(V)	Power(W)	Life Time(hrs)	Main Application	Cross Reference
12	20	2000	Biochemical Analyzer	New Mindray BS200/300/400/600/800
12	20	2000	Biochemical Analyzer	Mindray BS120/180/190
12	50	2000	Biochemical Analyzer	L9389 old Mindray BS200/300/400/600/800
12	20	2000	Biochemical Analyzer	Toshiba TBA40/120, Aeraset C8000



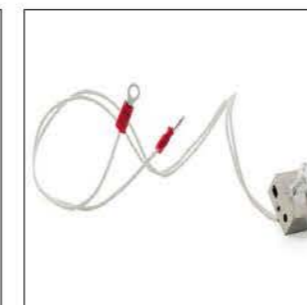
New Mindray BS200/300/400/600/800



Mindray BS120/180/190



L9389 old Mindray BS-200/300/400/600/800



Toshiba TBA40/120, Aeraset C8000

Voltage(V)	Power(W)	Life Time(hrs)	Main Application	Cross Reference
6	10	2000	Biochemical Analyzer	Mindray BA-88A
12	20	2000	Biochemical Analyzer	Olympus AU400/480/640/680, PG55134
12	50	2000	Biochemical Analyzer	Roche C6000/C501/C311
12	20	2000	Biochemical Analyzer	Gullin URIT-8020/8030/8060



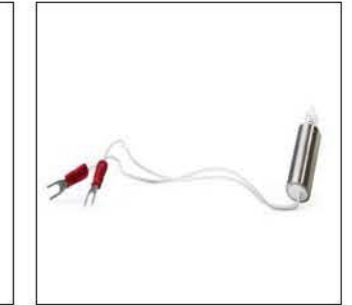
Mindray BA-88A



Olympus AU400/480/640/680, PG55134



Roche C6000/C501/C311

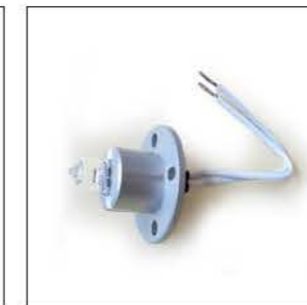


Gullin URIT-8020/8030/8060

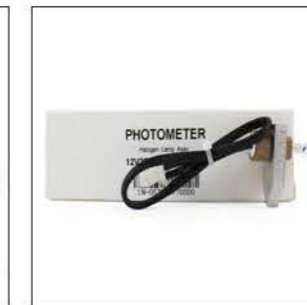
Voltage(V)	Power(W)	Life Time(hrs)	Main Application	Cross Reference
12	20	2000	Biochemical Analyzer	Dirui CS300/400/600/800
12	20	2000	Biochemical Analyzer	Rayto RT240
6	10	2000	Biochemical Analyzer	Sinnova BS3000P
12	20	2000	Biochemical Analyzer	Landwind LWC200/240/360/400



Dirui CS300/400/600/800



Rayto RT240



Sinnova BS3000P



Landwind LWC200/240/360/400

Voltage(V)	Power(W)	Life Time(hrs)	Main Application	Cross Reference
6	20	100	Biochemical Analyzer	Corning 560
12	50	2000	Biochemical Analyzer	Simens Bayer 1200/1650/1800/2400, PG55928
12	20	2000	Biochemical Analyzer	Mindray BA88, BA90
12	20	2000	Biochemical Analyzer	Rayto 9900



Corning 560



Simens Bayer 1200/1650/1800/2400, PG55928



Mindray BA88, BA90



Rayto 9900

Place of Origin	Volts	Watts	Base	LifeTime(hrs)	Main Application	Cross Reference	Pic
USA	60	24	Special	750	Endoscope Cold Light, Electronic Colposcope Xenon Lamp	09500-U 24 MR11	No. 150
USA	60	21	Special	750	Endoscope Cold Light, Electronic Colposcope Xenon Lamp	09800-U 24 MR11	
USA	60	18-24	Special	750	Endoscope Cold Light, Electronic Colposcope Xenon Lamp	AL 1824 18-24 MR11	
Czech	13.8	180	R21-Special	500	Xenon Cold Light Source, Microscope, Endocopy etc	Osram XBO 180W/45C with wire	No. 151
Czech	13	100	R21-Special	500	Xenon Cold Light Source, Microscope, Endocopy etc	Osram XBO 100W/45C with wire	
Czech	13.8	180	R21-Special	500	Xenon Cold Light Source, Microscope, Endocopy etc	Osram XBO 180W/45C without wire	No. 152
Czech	13	100	R21-Special	500	Xenon Cold Light Source, Microscope, Endocopy etc	Osram XBO 100W/45C without wire	No. 153
USA	60	21	Special	750	Endoscope Cold Light, Electronic Colposcope Xenon Lamp	M21E001 21 MR11	
USA	60	24	Special	350	Endoscope Cold Light, Electronic Colposcope Xenon Lamp	M24E001 24 MR11	
USA		50	Special	2500	Endoscope Cold Light, Electronic Colposcope Xenon Lamp	M50E001 50 MR16	



No. 150



No. 151



No. 152



No. 153

Place of Origin	Volts	Watts	Base	LifeTime(hrs)	Main Application	Cross Reference	Pic
USA	11-14	300	Special	500	Fujinon, Olympus, Stryker, Wolf, Storz Endoscope Cold Light	PE300BFA	No. 154
USA	11-14	175	Special	500	Fujinon, Olympus, Stryker, Wolf, Storz Endoscope Cold Light	PE175BFA	
USA	11-14	150	Special	500	Fujinon, Olympus, Stryker, Wolf, Storz Endoscope Cold Light	PE150AF	No. 155
USA	11-14	300	Special	500	Stryker X7000 Xenon Cold Light	PE300C-10F, Y1830	No. 156



No. 154



No. 155



No. 156

Place of Origin	Volts	Watts	Base	LifeTime(hrs)	Main Application	Cross Reference	Pic
USA	11-14	300	Special	500	OLX25 EPKI Xenon Cold Light	PE300C-10FS, Y1882	No. 157
USA	11-14	300	Special	500	Smith Nephew 500XL Xenon Cold Light	ME300BF	No. 158
USA	11-14	300	Special	500	EKP-I 5000 Xenon Cold Light	Y1911	
USA	11-14	300	Special	500	Stryker X8000 Xenon Cold Light	VAC300-F13-B-MB, Y2900	No. 159
USA	22.5	100	Special	300	Nikon Olympus Leica Zeiss Fluorescence Microscope	OSRAM HBO 103W/2	No. 160



No. 157



No. 158



No. 159



No. 160

Place of Origin	Volts	Watts	Base	LifeTime(hrs)	Main Application	Cross Reference	Pic
USA	11-14	300	Special	500	CLV-S40, 180, 240, 260, 260SL Xenon Cold Light	Olympus MD631	No. 160
USA	11-14	300	Special	500	Aesculap AXEL 300 Xenon Cold Light	Osram XBO 300W/60C	No. 161
USA	11-14	250	Special	500	Endoscope Cold Light, Electronic Colposcope Xenon Lamp	Osram XBO 250W/32C	
USA	11-14	300	Special	500	CLV190, 290, 190SL, 290SL Xenon Cold Light	Olympus MAJ-1817	No. 162
USA	11-14	400	Special	500	Timer Module set LEICA M720 F60 OH5 OH7	Y1916 400w Leica M720	No. 163



No. 160



No. 161



No. 162



No. 163



	Order Code: MS01 Base: G6.35, GX5.3		Order Code: MS02 Base: G4
	Order Code: MS03 Base: GY9.5, GZ9.5, G9.5		Order Code: MS04 Base: E10/E11
	Order Code: MS05 Base: G5.3-4.8		Order Code: MS06 Base: BA15D
	Order Code: MS07 Base: BA15D		Order Code: MS10 Base: G6.35, GX5.3
	Order Code: MS09 Base: G6.35, GX5.3		Order Code: MS12 Base: G6.35, GX5.3
	Order Code: MS11 Base: G4, GZ4		Order Code: MS14 Base: G6.35, GZ6.35, G5.3, GZ5.3
	Order Code: MS13 Base: G6.35		Order Code: MS15 Base: G6.35, GZ6.35, G5.3, GZ5.3

	Order Code: 324 Base: G4, GZ4, GX5.3, G6.35		Order Code: 912 Base: G6.35, GZ6.35, GX6.35, GY6.35
	Order Code: 327 Base: G6.35, GZ6.35, G5.3, GZ5.3		Order Code: 830 Base: G6.35, GZ6.35, G5.3, GZ5.3
	Order Code: 901 Base: G6.35, GZ6.35, G5.3, GZ5.3		Order Code: 913 Base: G6.35, GZ6.35, G5.3, GZ5.3

Dental Reflector

O.T Reflector

	Order Code: DR01 Type: 150*110mm		Order Code: OTR01/A, OTR1/B Base: 140mm-28mm hole, 140mm-32mm hole
	Order Code: DR02/DR03 Base: Φ150mm/Φ205mm		Order Code: OTR02 Base: 97mm/165mm
	Order Code: DR04 Base: 150*80mm		Order Code: OTR03/OTR04 Base: 430mm/600mm
	Order Code: DR05 Base: 205*180mm		Order Code: OTR05/OTR06 Base: 500mm/700mm



New Line In Special Lighting

Retinoscope Lamps

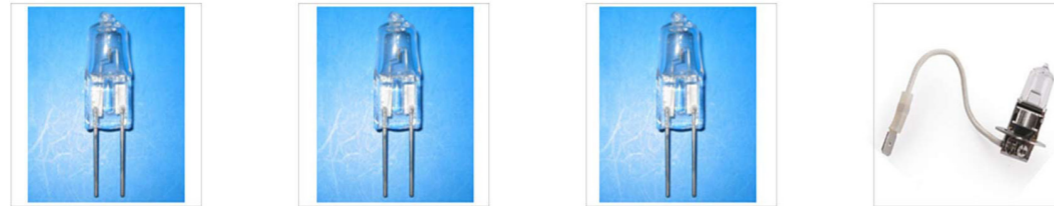


HEINE 089 3.5V HEINE 087 2.5V HEINE 098 2.5V PENTAX BS-LH2 2.5V1.8W NEITZ L29 4V2.5W

Aircraft Lamps



LT03159 22.7V150W LT03160 30.3V200W LT05130 22.73V150W LT03161 150W



LT03157 6V20W LT03158 200W LT03162 45W LT03163 24V60W

Medical Battery



WELCH ALLYN 72200



WELCH ALLYN 72300



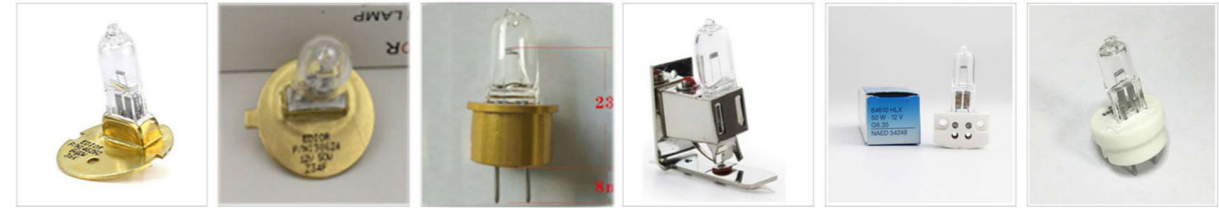
PHILIPS 360164 102V30W



G15T8E 55V14.7/15W

Germicidal Light Bulb

Silt Lamp Bulbs



LT03155 6V20W LT03157 12V50W LT03156 12V50W LEICA 12V50W 64610 HLX 12V50W BC/BD/BT900 12V30W

Microscope Lamps



LT03164 6V25W OSRAM 64629 12V100W EFR 64260 15V150W HYBEC-1630 6.5V17.88W OSRAM-64002 12V20W

Flame Detector Tube



P578.61

Surgical Lamps



LT03167 24V50W



BW+881

Biochemical Analyzer Lamps



ROCHE C111 12V20W



LT03166 6V10W

Stage Lamps



64718 230V650W

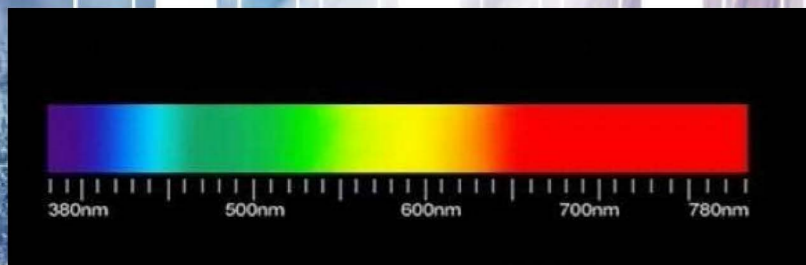
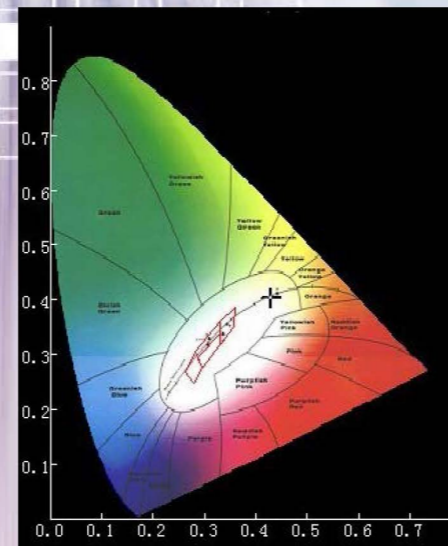
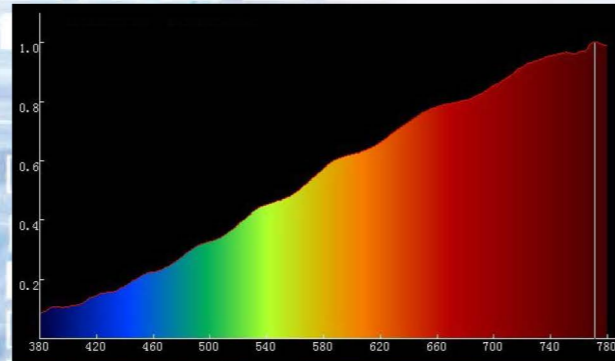
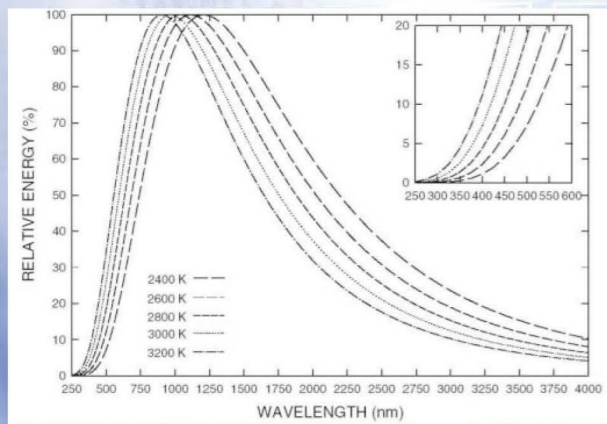


EHA 120V150W



HALOSTAR 64225S 12V20W

Special Lamps



Safety Instructions

⚠ WARNING

- ⚠ The lamp is under high internal pressure. Do not drop hit, apply excessive stress or scratch the lamp. Otherwise it could cause injury by broken glasses.
- ⚠ Use the lamp with specified wattage in appropriate equipment (lamp house). Otherwise it could cause breakage or overheating of the lamp house.
- ⚠ Do not cover the lamp with paper, cloth or other combustible materials nor operate it in close proximity to such materials. Otherwise it could cause a fire.
- ⚠ Operate the lamp in the position indicated. Otherwise it could cause breakage or overheating of the lamp house.
- 👉 Turn off the electrical power before installing, removing, or cleaning the equipment. Otherwise it could cause electrical shock.

⚠ CAUTION

- Do not touch the lamp while it is operating or immediately after it is turned off because it is extremely hot. Otherwise it could cause a burn. (Exchange or clean the lamp after it is cooled off completely).
- Do not give shock or vibration to the lamp. Otherwise it could cause breakage or injury by lamp falling.
- ⚠ Do not handle the lamp with bare hands or stained gloves. If operated with stains, it could cause breakage, a fire, or injury.
- Do not operate the lamp in an atmosphere containing corrosive material such as acid. Otherwise it could cause injury by electrical leakage, fire, fall or breakage.
- ⚠ Operate the lamp in equipments with protective shield (shield frontglass) in order to prevent scattering of glass fragments if the lamp breaks. Otherwise it could cause a fire, a burn, or injury.
- Do not operate the lamp in a dusty atmosphere. Otherwise it could cause a fire, explosion or overheating.
- 👉 Keep the lamp out of reach of children. Otherwise it could cause suffocation by swallowing the lamp or injury by breakage.
- Use the exclusive lamps for fishery/luring application. Otherwise it could cause injury by breakage.
- Do not look closely at the lamp while it is operating. Otherwise it could cause eye injuries.
- Do not operate the lamp under conditions where the lamp is hit by rain, water drops or where its humidity is high. Otherwise it could cause insulation failure, breakage or injury by lamp falling.
- Do not operate the lamp by series connection. Otherwise it could cause injury by breakage.
- Do not paint the lamp. Otherwise it could cause overheating or a fire.
- Make sure that the contact part of the socket is not damaged. Otherwise it could cause overheating.
- Do not operate the lamp in an atmosphere containing inflammable substances, such as gasoline, inflammable spray, thinner, lacquer or dust. Otherwise it could cause a fire or explosion.
- Make sure of the types of lamp base (screw or insert type) before installing or exchange the lamp. Otherwise it could cause injury by breakage.
- Fix the lamp firmly to the socket. Otherwise it could cause the lamp to drop from equipments, injury by breakage, or overheating.
- Exchange of the lamp which has been used over its rated life time is recommended. Otherwise it could cause a fire or injury by breakage.
- Operate the lamp in the specified voltage. When operated in higher voltage, it could cause the base to break off, equipment to overheat, breakage or injury by lamp falling.
- Remove packaging of the lamp before installing. Otherwise it could cause a fire, a burn, or injury by breakage.

Operation Notes

- The pressure on the contact of the double ended lamps should be kept under 20 to 35N (in case of silver contact 10 to 35N.)
- Do not touch the inner part of reflector with bare hand. Otherwise it could cause short lamp life or affect the lamp performance.
- In order to prevent a danger of breakage which happens rarely at the end of the lamp life, attach a proper fuse to lamp house.
- Do not place objects in close proximity to the lamp. Otherwise it could cause a fire.
- Except for the lamps allowed, keep the seal temperature below 350°C.
- Dispose of the lamp without breaking. Otherwise it could cause injury by scattered glass fragments.
- Keep the bulb temperature between 250°C to 900°C during the lamp operation.