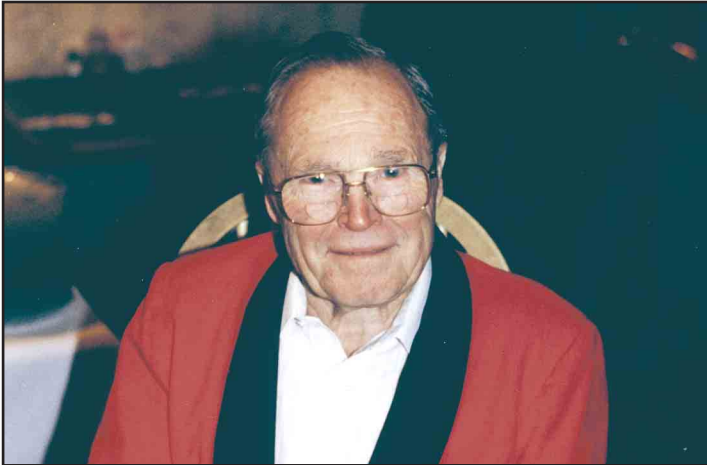


**MINIATURE LAMP AND
SEALED BEAM CATALOG**

"MINIATURE LAMP SPECIALISTS"

Dear Customer,



We are dedicating this reprinting of the **SUNRAY LIGHTING MINIATURE LAMP AND SEALED BEAM CATALOG** to the memory of **John E. Tison, Jr.** who passed away on July 31, 2002 at the age of 82. **SUNRAY LIGHTING** has been serving the lamp industry since 1946, the year John founded **SUNRAY**. John was always guided by one of his favorite credos, "If you don't have it, you can't sell it."

We at **SUNRAY** are committed to continuing John's ideals by delivering a high quality product along with prompt, friendly, and professional customer service. We take great pride in our ability to provide our customers with the product they need, when they need it and at the lowest price possible. We encourage our customers to use **SUNRAY** as their "miniature lamp warehouse".



SUNRAY carries an extensive array of miniature lamps and sealed beams. The products shown in this catalog therefore represent only a small portion of our available product. We also carry Rayovac batteries and flashlights and a new line of LED lamps. If you do not see the lamp you need, please call us. If we don't have it in stock we can probably get it for you.



We are here to serve you, and we enjoy hearing from you. If you have any questions about our company, or if there is some way we can better serve you, we would like to know.

Please call us if you need more catalogs. Here's to a prosperous year for all of us.

Thank you for your business.

A handwritten signature in blue ink that reads "Jack Pakeltis". The signature is stylized and fluid.

Jack Pakeltis
President



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www.sunraylighting.com

GENERAL INFORMATION AND COMPANY POLICY

- **PRICE LIST**

A Distributor Price List is available upon request. All prices are subject to change without notice. Actual prices for any given product number will vary based upon several factors such as quantity ordered, brand, and product availability.

- **ORDERING**

Orders will be accepted verbally, by FAX, written purchase order, or by e-mail. There is no minimum order.

- **QUANTITY PRICING**

We may be able to offer special pricing on large quantities.

- **QUOTATIONS**

All price quotes are good for at least 30 days. We may also be able to issue price quotes that are good for one year or more.

- **STOCK ITEMS**

The products listed are items that we normally carry in stock and are shown for identification purposes only and do not necessarily represent the product for any specific supplier or manufacturer. If the product you need is not listed, we may be able to obtain it for you. Prices may vary depending upon the brand or manufacturer.

- **FOB**

All orders are FOB Irvine, CA. We normally ship by UPS or Federal Express unless another carrier is requested.

- **SHIPPING**

We ship within 24 hours of receipt of your order for items in stock. We can ship rush orders UPS Blue or Red label. If you have sent a FAX order we will advise you if a lamp is not in stock. We also offer **free shipping up to \$50.00** for all ground shipments of \$500 or more.

- **BACKORDERS**

All backorders will be shipped as soon as we receive the merchandise. You will be notified if we are unable to ship your backorder for any reason.

- **CREDIT TERMS**

Our credit terms are net 30 upon credit approval. Until your credit has been approved, we can ship your orders COD. Failure to comply with invoice terms may result in a hold being placed on your account. Late accounts may be placed on COD. We also accept Visa and Mastercard credit cards.

- **CLAIMS**

Our customer service department must be notified by telephone or by FAX of any discrepancy in your order within 10 days of shipment.

- **RETURNED MERCHANDISE**

We will not accept any returned merchandise without an authorization number. We will gladly correct our own errors at our expense. There will be a 15% restocking charge plus returned freight, if the error is yours.

- **COLORS - FROST - TUFFSKIN**

We can color, frost, or Tuffskin almost any miniature lamp to your specification. This process may not be recommended for some lamps. If you need a lamp in a color, give us a call.

- **LAMP IDENTIFICATION SERVICE**

We offer a lamp I.D. service which includes finding delisted, hard to find and obsolete lamps. Often we can identify a lamp over the telephone. We can also work from a picture which you can fax or e-mail to us. You can also send us a sample of the lamp. Any lamps sent to us for identification will be returned upon request. If the lamp you need is not available, we may be able to cross reference another lamp or it may also be possible for us to have the lamp custom made to your specifications.

- **TECHNICAL DATA**

It is our pleasure to share our expertise with our customers. Please call us when you need assistance on any kind of lamp problem.

TABLE OF CONTENTS

Brands Represented	2	T-2 ½	20
Product Lines	3	T-3	20
Excess Stock Quotation Form	4	T-3 ¼	20-22
General and Technical Information	5	T-4	22
Miniature Filaments and Bases	6	T-4 ½	22
Lamp Identification Checklist	7	T-4 ¾	23
Illustrated Reference Guide	8-9	T-5	23
Miniature Lamps Listed by Bulb Size:		T-6	24
B-3 ½	10	T-6 ½	24
B-6	10	TL-3	24
G-3 ½	11	Neon Glow Lamps	25
G-4 ½	12	Halogen Lamps	26-27
G-6	13	Miniature Halogen Lamps	28
RP-11	14	LED Lamps	29
R-12	14	Xenon Lamps	30-31
S-6 (Specialty Bulbs)	32-34	Specialty Bulbs C7, S6, T4½, T7, ETC.	32-34
S-8	14-17	Sealed Beam Illustrations	35-36
S-11	17	Sealed Beam Base Types	37
T-1	18	Sealed Beam Specifications	38-42
T-1 ½	18	Flashlights and Batteries	43-46
T-1 ¾	18-19	Numerical Index of Lamps	47-49
T-2	19		



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| √ CARLEY | √ MITUTOYO | √ TRIBORO |
| √ CHICAGO MINIATURE | √ NIKON | √ UNITRON |
| √ COLE HERSEE | √ NEUSES | √ USHIO |
| √ CIC | √ OLYMPUS | √ WAGNER |
| √ DIALIGHT | √ OSHINO | √ WELCH ALLYN |
| √ EAGLE | √ OSRAM | √ ZEISS |
| √ ELDEMA | √ OPTIQUIP | |
| √ FUJI | √ PERKO | |
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| √ HELLA | √ SICK | |
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- Excess stock purchased • Terms NET 30 • Cross reference on Foreign & Domestic lamps
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NOTE: IF A NAME BRAND IS NOT LISTED, PLEASE ASK US ABOUT THE BRAND YOU ARE LOOKING FOR.

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PRODUCT LINES

- Miniature Incandescent
- Sealed Beams
- Neon Glow Lamps
- Quartz Halogen Lamps
- Wedge Base Lamps
- Lamp Filters in Colors
- Flashlight Lamps
- Photo Sockets
- Led Indicators
- Sub-Mini Indicator Lamps
- Miniature Fluorescent
- Xenon & Krypton High Intensity Lamps
- Medical & Optical Lamps
- Aircraft Lamps
- Automotive Miniature Lighting
- Lampholders
- Flashlights and Batteries
- Based LED Lamps (Replacement for Miniature Incandescent)

PLEASE CALL FOR CURRENT PRICING. A DISTRIBUTOR PRICE LIST IS AVAILABLE TO DISTRIBUTORS UPON REQUEST.

TECHNICAL INFORMATION

The term *miniature lamp* applies to units ranging in size from the so-called “grain of wheat” lamps to automotive headlights. It is not as much indicative of physical size as of low operating voltage – rarely more than 28 volts and often as little as 1.5 or 2.5 volts.

Bulb Designations

Bulbs are identified by a letter or letters followed by a number. This letter indicates the shape of the bulb and the number indicates the diameter of the bulb in eighths.

Various bulb shapes are as follows:

B	Blister
G	Globular
R	Reflector
RP	Rounded Parabolic
S	Straight-sided
T	Tubular
TL	Tubular, Lens end

For example, “S-8” indicates a S, or straight-sided, bulb with a diameter of 8/8ths or approximately 1 inch.

Lamp Number Lamps are identified by a standard industry number. This number should be used when ordering.

Primary Application This column indicates the major services for each lamp. In most cases lamps can be used in many other applications.

Design Volts The voltage at which the lamp is designed for rated amperes, candlepower, and life characteristics.

Watts or Amps The approximate power (watts) or approximate current (amps) that the lamp will draw at design volts.

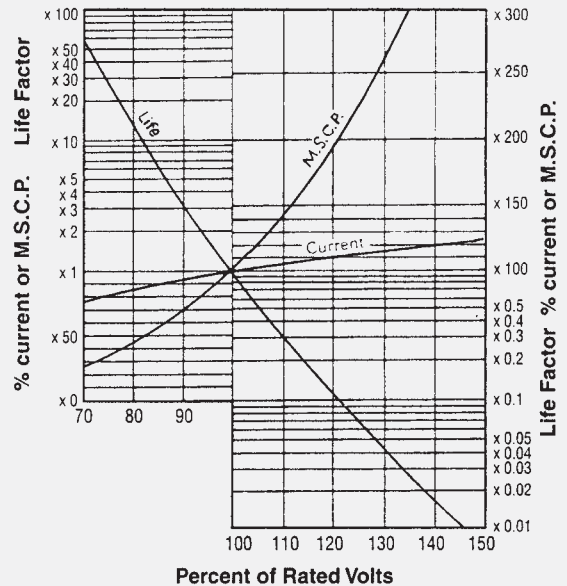
Mean Spherical Candlepower (MSCP)
Average value of total light output of miniature lamps at design volts.

Maximum Overall Length (MOL)
Measured from the top of bulb to the bottom of the base.

Rated Average Life Rated average life to be expected at controlled laboratory testing of lamps at design volts. Actual service life will vary with application.

LIFE/VOLTAGE CURVE

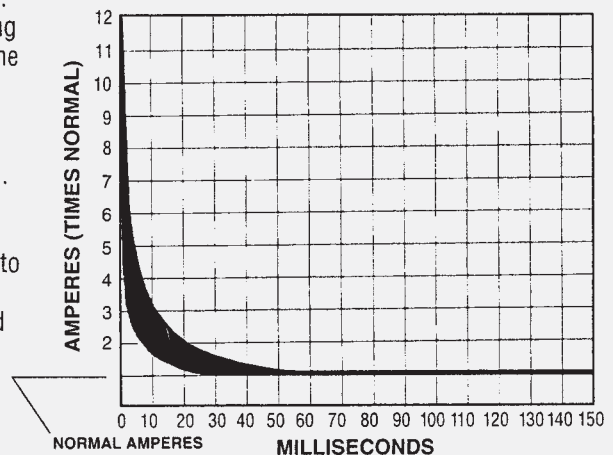
Design voltage is very important in operating a particular lamp. As the curve in the accompanying diagram indicates, the life of the lamp will decrease as the voltage is increased or vice-versa. Lamps should therefore be operated at the design voltage to obtain the rated life and light output.



INRUSH CURRENT

Inrush current is the term used for the initial surge of electricity through the tungsten filament. This current can be as high as 12 times the normal operating current.

The accompanying diagram shows the plot of the inrush current and time when the design voltage is applied. One method of reducing the inrush current is to initially apply a lower voltage and subsequently increase the voltage to the design voltage.



Light Center Length (LCL) LCL is measured from the geometric center of the lighted filament to that part of the base listed below:

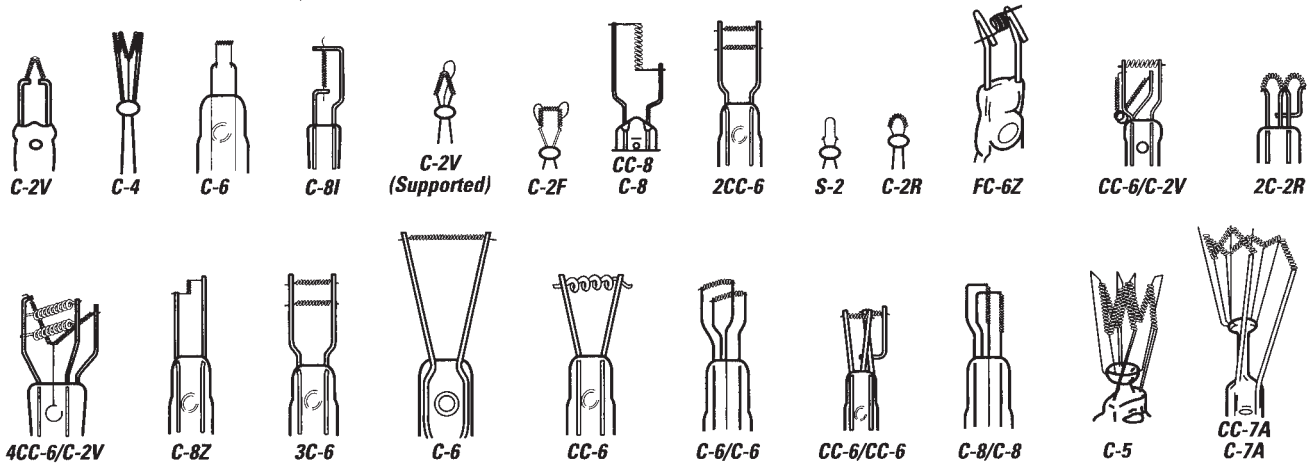
Double Contact (D.C) Bayonet	Top of base pin
Double Contact Index Midget Bi-Pin Base	Top of lower pin
Midget Grooved Base	Flat bottom of base
Midget Flanged Base	Center of groove
Miniature Bayonet	Top of flange
Screw Bases	Top of base pin
Single Contact (S.C.) Midget Flanged	Bottom of end contact
Single Contact Miniature Flanged	Top of flange
Single Contact or Double Contact Prefocus	Top of bosses in flange
	Bottom of indentations on prefocusing collar

Miniature Filaments and Bases

Filaments

Filaments for miniature and subminiature lamps may be a straight wire (S), a coil (C), or a coiled coil (CC). Coiling the filament wire effectively shortens the filament length so that smaller bulbs can be used. In addition, in gas-filled lamps, coiling the wire reduces thermal losses and increases efficiency.

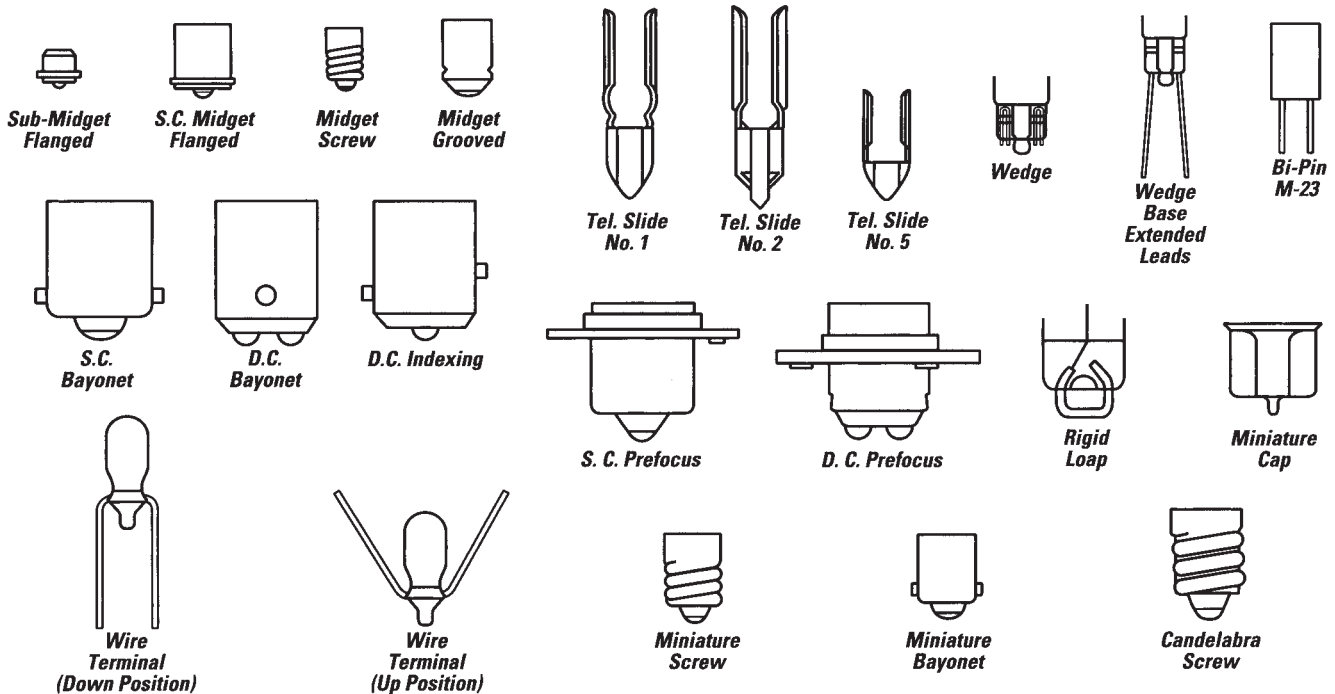
Tungsten is almost universally used as lamp filament material because of its high melting point at incandescence. The number following the coil identification letter(s) denotes the arrangement of the filament on the supports.



Bases

Bases provide electrical contact to the lamp and, in most cases, also support the lamp in the fixture. For miniature and subminiature lamps, bayonet or wedge base types are generally preferred over screw

types when vibration is present. In addition, wedge bases reduce socket size and complexity. Flanged or collared types are usually associated with requirements for filament location.



S.C. and D.C. Prefocused Base Lamps

The letter "A" following the base type designates that the distance from the bottom of the collar to the bottom of the base contact is 13/32." For "B" bases this distance is 9/16." The few lamps identified by the

letter "S" in the "Base" column are special in that the collar location and/or the orientation of the contacts differs from the above.



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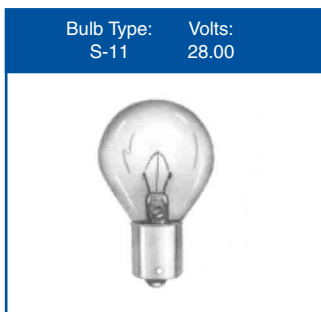
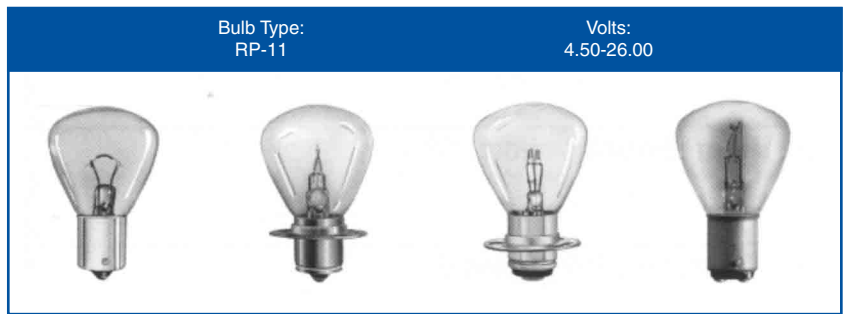
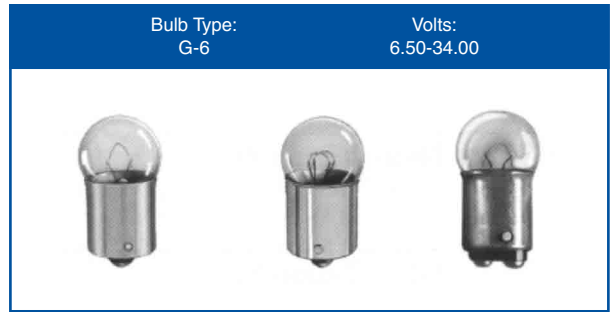
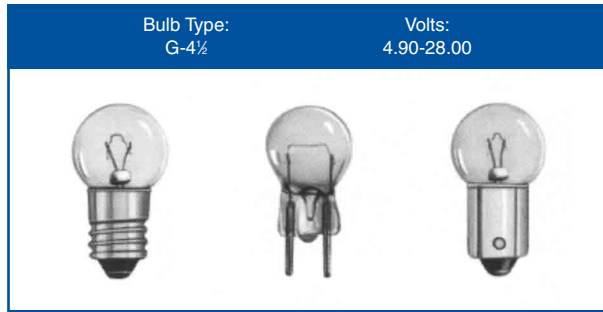
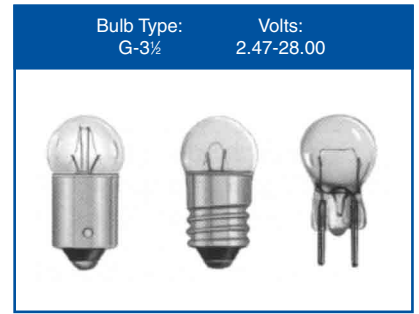
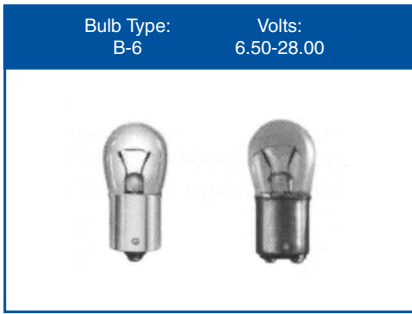
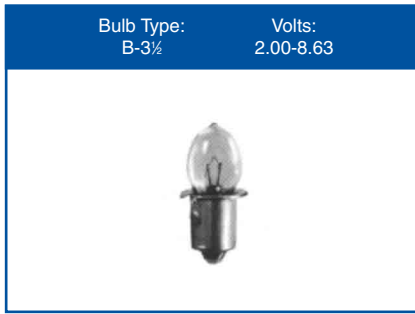
LAMP IDENTIFICATION CHECKLIST

In order to identify or cross reference your lamp if a part number is not available, please have as much of the following information as possible.

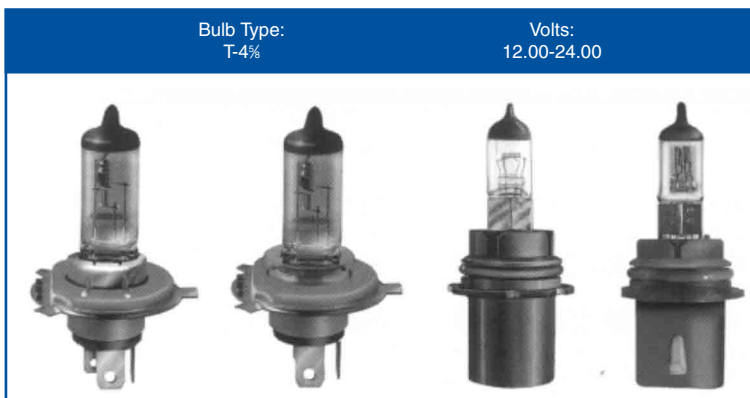
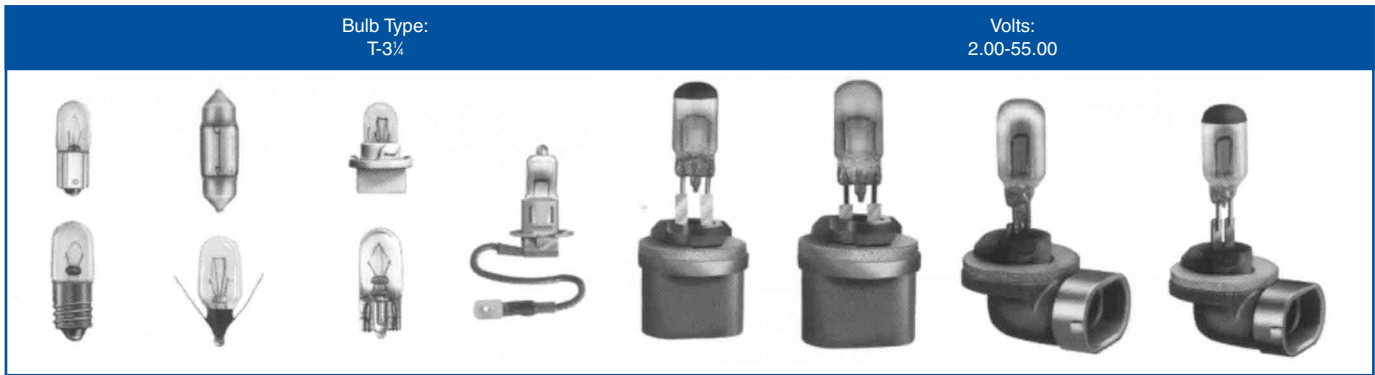
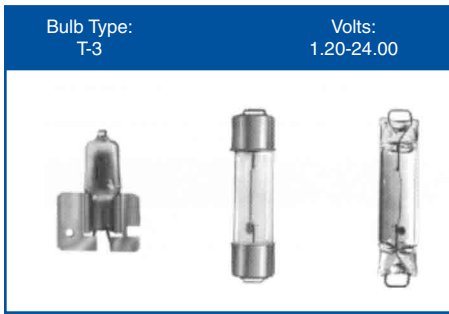
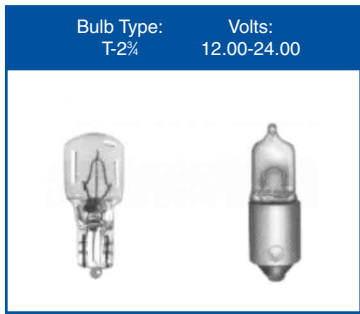
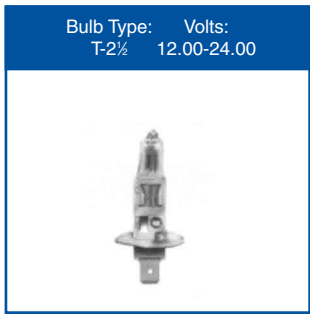
1. Manufacturer.
2. Voltage.
3. Wattage or Amps.
4. Glass Shape (tubular, round, pear shape, etc.).
5. Bulb Diameter (diameter of bulb at widest point).
6. Base Type (wedge, single or double contact bayonet, candelabra screw, etc.).
7. Maximum Overall Length (measurement from tip of glass to end of base).
8. Filament Shape (C-2R, C-6, C-2V, etc.).
9. Light Center Length.
10. Lamp Application (headlight, stop, flashlight, etc).
11. Identifying marks on the glass or base.

If we are not able to identify your lamp by phone, send us a well packed sample lamp to be returned upon request, or send us a detailed drawing as close to scale and with as much detail as possible

Miniature Lamp Illustrated Reference Guide



Lamps shown are not proportionate. Diameter = bulb number x 1/8" i.e., S-8 = 8 x 1/8" = 1"



Lamps shown are not proportionate. Diameter = bulb number x 1/8" i.e., S-8 = 8 x 1/8" = 1"

Miniature Lamp Specifications

Line No.	Lamp No.	Base	Des. Volts	Amps or Watts	MSCP	Fil. Type	MOL (inch)	LCL (inch)	Ave Life (Hrs)	Primary Application	Fig. No.
B-3 1/2 Bulb											
1	PR4	S.C. Miniature Flanged	2.33	.27	.40	C-2R	1.25	.25	10	Flashlight-2 C Cells	1
2	PR2	S.C. Miniature Flanged	2.38	.50	.80	C-2R	1.25	.25	15	Flashlight-2 D Cells	1
3	K2	S.C. Miniature Flanged	2.4	.70	1.20	C-2R	1.25	.25	15	Flashlight-Krypton 2 Cells	1
4	KPR102	S.C. Miniature Flanged	2.4	.70	1.30	C-2R	1.25	.25	15	Flashlight-Krypton 2 Cells	1
5	PR6	S.C. Miniature Flanged	2.47	.30	.45	C-2R	1.25	.25	30	Flashlight-2 D Cells	1
6	PR3	S.C. Miniature Flanged	3.57	.50	1.5	C-2R	1.25	.25	15	Flashlight-3 D Cells	1
7	K3	S.C. Miniature Flanged	3.6	.90	3.4	C-2R	1.25	.25	15	Flashlight-Krypton 3 Cells	1
8	KPR103	S.C. Miniature Flanged	3.6	.75	2.7	C-2R	1.25	.25	20	Flashlight-Krypton 3 Cells	1
9	PR7	S.C. Miniature Flanged	3.7	.30	.90	C-2R	1.25	.25	30	Flashlight-3 Cells	1
10	PR30	S.C. Miniature Flanged	3.75	.86	2.25	C-2R	1.25	.25	40	Flashlight-3 Cells	1
11	PR13	S.C. Miniature Flanged	4.75	.50	2.0	C-2R	1.25	.25	15	Flashlight-4 F Cells	1
12	K13	S.C. Miniature Flanged	4.75	.70	4.0	C-2R	1.25	.25	15	Flashlight-Krypton 4 Cells	1
13	KPR113	S.C. Miniature Flanged	4.8	.75	4.06	C-2R	1.25	.25	20	Flashlight-Krypton 4 Cells	1
14	PR15	S.C. Miniature Flanged	4.82	.50	2.0	C-2R	1.25	.25	30	Hand Lantern-8 F Cells	1
15	PR17	S.C. Miniature Flanged	4.9	.30	1.2	C-2R	1.25	.25	30	Hand Lantern-8 F Cells	1
16	K12	S.C. Miniature Flanged	5.95	.70	7.5	C-2R	1.25	.25	8	Hand Lantern-Krypton 8 F Cells	1
17	PR12	S.C. Miniature Flanged	5.95	.50	3.0	C-2R	1.25	.25	15	Flashlight-5 D Cells	1
18	PR18	S.C. Miniature Flanged	7.2	.55	4.2	C-2R	1.25	.25	3	Flashlight-6 D Cells	1
19	PR20	S.C. Miniature Flanged	8.63	.50	5.0	C-2R	1.25	.25	15	Flashlight-7 D Cells	1
20	PR16	S.C. Miniature Flanged	12.5	.25	2.7	C-2R	1.25	.25	50	Auto Spotlight	1
B-6 Bulb											
21	210	D.C. Bayonet	6.5	1.78	15	C-6	1.75	1.06	100	Instrument	3
22	1003	S.C. Bayonet	12.8	.94	15	C-6	1.75	1.06	100	Auto Interior	2
23	1004	D.C. Bayonet	12.8	.94	15	C-6	1.75	1.06	100	Auto Interior	3
24	104	D.C. Bayonet	12.8	1.0	12	C-6	1.75	1.06	500	Auto Interior	3
25	105	S.C. Bayonet	12.8	1.0	12	C-6	1.75	1.06	500	Auto Interior	2
26	1309	S.C. Bayonet	28.0	.52	15	2C-2R	1.75	1.06	300	Aircraft Interior	2
27	1308	S.C. Bayonet	28.0	.56	16	CC-8	1.75	1.06	2,000	Aircraft Interior	2

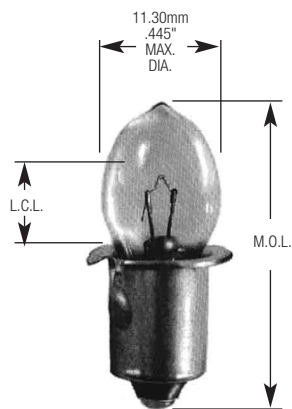


Fig. 1 (C-2R filament shown)

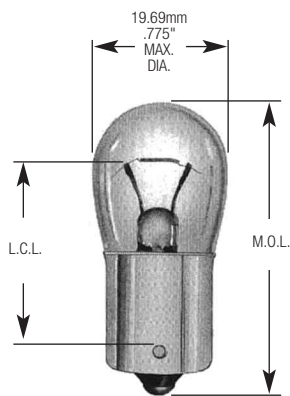


Fig. 2 (C-6 filament shown)

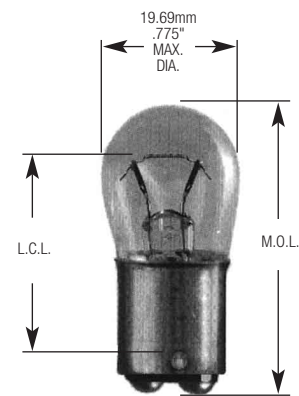


Fig. 3 (C-6 filament shown)

Some lamp pictures are not to scale. Filament and L.C.L. may vary by part number. For filament identification see page 6.

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Miniature Lamp Specifications

Line No.	Lamp No.	Base	Des. Volts	Amps or Watts	MSCP	Fil. Type	MOL (inch)	LCL (inch)	Ave Life (Hrs)	Primary Application	Fig. No.
G-3 1/2 Bulb											
1	131	Miniature Screw	1.3	.10	.03	S-2	.94	.72	50	Bicycle	4
2	233	Miniature Screw	2.33	.27	.42	C-2R	.94	.72	10	Flashlight-3 C Cells	4
3	245	Miniature Screw	2.46	.50	.90	C-2R	.94	.72	15	Flashlight-2 D Cells	4
4	10	Miniature Two Pin	2.5	.50	.50	C-6	.94	.63	3,000	Indicator	5
5	14	Miniature Screw	2.47	.30	.50	C-2R	.94	.72	15	Flashlight-2 D Cells	4
6	13	Miniature Screw	3.7	.30	.98	C-2R	.94	.72	15	Flashlight-3D Cells	4
7	12	Miniature Two Pin	6.3	.15	.35	C-6	.94	.63	5,000	Radio	5
8	51	Miniature Bayonet	7.5	.22	1.0	C-2R	.94	.50	1,000	Indicator	6
9	1446	Miniature Screw	12.0	.20	1.7	C-2R	.94	.72	250	Toy Train	4
10	1449	Miniature Screw	14.0	.20	2.0	C-2V	.94	.72	250	Toy Train	4
11	19	Miniature Two Pin	14.4	.10	.90	C-6	.94	.63	1,000	Toy Train	5
12	53	Miniature Bayonet	14.4	.12	1.0	C-2V	.94	.50	1,000	Auto	6
13	1445	Miniature Bayonet	14.4	.13	.70	C-2F	.94	.50	2,000	Auto	6
14	1450	Miniature Bayonet	24.0	.035	.23	C-2F	.94	.50	3,000	Indicator	6
15	265	Miniature Bayonet	28.0	.08	.75	C-2F	.94	.50	5,000	Indicator	6
16	356	Miniature Bayonet	28.0	.17	3.5	C-2F	.94	.50	500	Aircraft	6

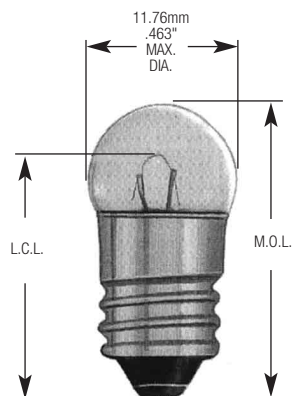


Fig. 4 (C-2V filament shown)

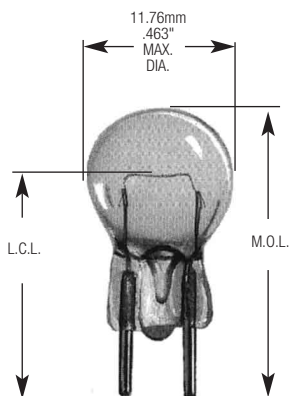


Fig. 5 (C-6 filament shown)

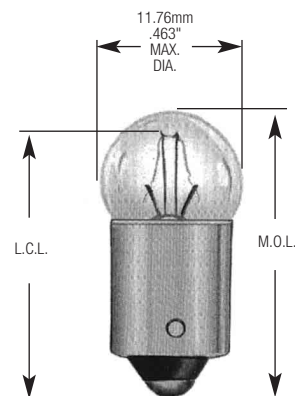


Fig. 6 (C-2F filament shown)

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Miniature Lamp Specifications

Line No.	Lamp No.	Base	Des. Volts	Amps or Watts	MSCP	Fil. Type	MOL (inch)	LCL (inch)	Ave Life (Hrs)	Primary Application	Fig. No.
G-4 1/2 Bulb											
1	27	Miniature Screw	4.9	.30	1.4	C-2R	1.063	.72	30	Lantern-4 F Cells	7
2	407	Miniature Screw	4.9	.30	-	C-2R	1.06	.81	50	Hand Lantern	7
3	425	Miniature Screw	5.0	.50	2.3	C-2R	1.06	.72	15	Hand Lantern-4 F Cells	7
4	502	Miniature Screw	5.1	.15	.60	C-2R	1.06	.72	100	Hand Lantern-4 F Cells	7
5	503	Miniature Bayonet	5.1	.15	.60	C-2R	1.07	.56	100	Lantern	8
6	605	Miniature Screw	6.1	.50	3.4	C-2R	1.07	.72	15	Flashlight	7
7	455	Miniature Bayonet	6.5	.50	1.9	C-2R	1.06	.56	500	Indicator	8
8	15	Miniature Two Pin	7.0	.40	2.0	C-6	1.07	.69	500	Indicator	9
9	55	Miniature Bayonet	7.0	.41	2.0	C-2R	1.06	.56	500	Auto Instrument	8
10	428	Miniature Screw	12.5	.25	2.4	C-2V	1.06	.72	250	Toy Train	7
11	57	Miniature Bayonet	14.0	.24	2.0	C-2V	1.06	.56	500	Auto Instrument	8
12	257	Miniature Bayonet	14.0	.27	-	C-2R	1.06	.63	500	Auto	8
13	258	Miniature Screw	14.0	.27	1.6	C-2R	1.07	.81	500	Toy Train, Flasher	7
14	1895	Miniature Bayonet	14.0	.27	2.0	C-2F	1.06	.56	2,000	Auto	8
15	1895B	Miniature Bayonet	14.0	.27	-	C-2F	1.06	-	2,000	Auto	8
16	1895R	Miniature Bayonet	14.0	.27	-	C-2F	1.06	-	2,000	Auto	8
17	293	Miniature Bayonet	14.0	.33	2.0	C-2F	1.06	.56	5,000	Auto	8
18	456	Miniature Bayonet	28.0	.17	2.0	C-2F	1.07	.56	5,000	Instrument	8

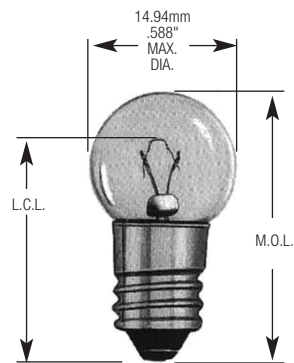


Fig. 7 (C-2R filament shown)

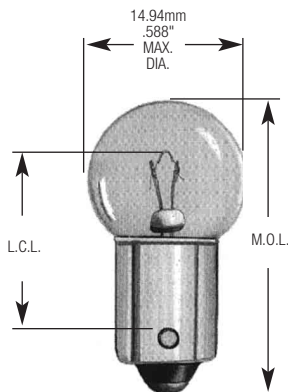


Fig. 8 (C-2R filament shown)

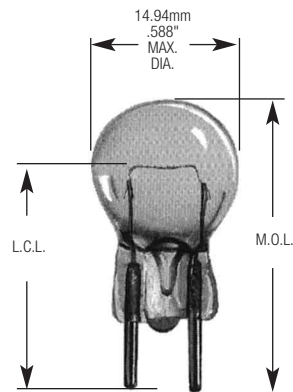


Fig. 9 (C-6 filament shown)

Some lamp pictures are not to scale. Filament and L.C.L. may vary by part number. For filament identification see page 6.

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Miniature Lamp Specifications

Line No.	Lamp No.	Base	Des. Volts	Amps or Watts	MSCP	Fil. Type	MOL (inch)	LCL (inch)	Ave Life (Hrs)	Primary Application	Fig. No.
G-6 Bulb											
1	157	Miniature Screw	5.8	1.1	8.1	C-2R	1.44	1.0	50	Medical	10
2	81	S.C. Bayonet	6.5	1.02	6	C-2R	1.44	.75	500	Auto	11
3	82	D.C. Bayonet	6.5	1.02	6	C-2R	1.44	.75	500	Auto	12
4	63	S.C. Bayonet	7.0	.63	3	C-2R	1.44	.75	1,000	Auto	11
5	64	D.C. Bayonet	7.0	.63	3	C-2R	1.44	.75	1,000	Auto	12
6	89	S.C. Bayonet	13.0	.58	6	C-2R	1.44	.75	750	Auto	11
7	90	D.C. Bayonet	13.0	.58	6	C-2R	1.44	.75	750	Auto	12
8	98	D.C. Bayonet	13.0	.62	6	C-2V	1.44	.75	800	Auto	12
9	99	D.C. Bayonet	13.0	.62	6	C-2V	1.44	.75	800	Auto	12
10	67	S.C. Bayonet	13.5	.59	4	C-2R	1.44	.81	5,000	Auto	11
11	68	D.C. Bayonet	13.5	.59	4	C-2R	1.44	.83	5,000	Auto	12
12	1155	S.C. Bayonet	13.5	.59	4	2C-2R	1.44	.83	5,000	Auto	11
13	97	S.C. Bayonet	13.5	.69	4	C-2V	1.44	.81	5,000	Auto	11
14	1178	D.C. Bayonet	13.5	.69	4	C-2V	1.44	.81	5,000	Auto	12
15	631	S.C. Bayonet	14.0	.63	6	2C-6	1.44	.72	1,000	Auto	11
16	509K	Candelabra Screw	24.0	.18	2.8	C-2F	1.38	.94	1,000	Indicator	-
17	1251	S.C. Bayonet	28.0	.23	3	2C-6	1.44	.75	2,000	Auto	11
18	1252	D.C. Bayonet	28.0	.23	3	2C-6	1.44	.75	2,000	Auto	12
19	303	S.C. Bayonet	28.0	.30	6	C-2F	1.44	.75	500	Aircraft	11
20	304	D.C. Bayonet	28.0	.30	6	C-2F	1.44	.75	500	Aircraft	12
21	623	S.C. Bayonet	28.0	.37	6	2C-6	1.44	.75	1,000	Auto	11
22	624	D.C. Bayonet	28.0	.37	6	2C-6	1.44	.75	1,000	Auto	12
23	1224	D.C. Bayonet	32.0	.16	3.8	C-2F	1.44	.75	500	Marine	12

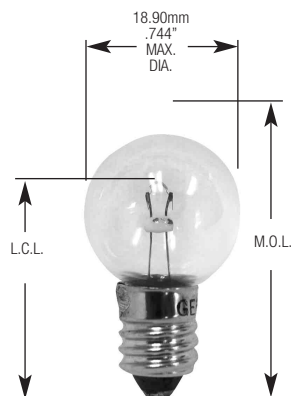


Fig. 10 (C-2R filament shown)

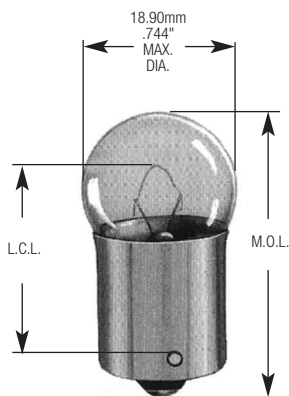


Fig. 11 (C-2R filament shown)

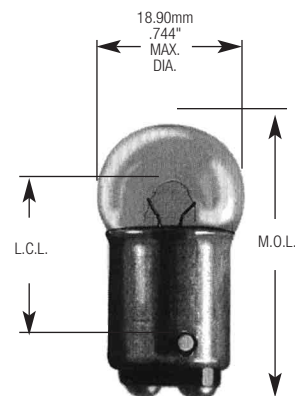


Fig. 12 (C-2R filament shown)

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Miniature Lamp Specifications

Line No.	Lamp No.	Base	Des. Volts	Amps or Watts	MSCP	Fil. Type	MOL (inch)	LCL (inch)	Ave Life (Hrs)	Primary Application	Fig. No.
RP-11 Bulb											
1	1183	S.C. Bayonet	5.5	6.25	50	C-2V	2.25	1.25	50	Auto	13
2	1184	D.C. Bayonet	5.5	6.25	50	C-2V	2.25	1.25	10	Auto	14
3	1133	S.C. Bayonet	6.2	3.91	32	C-2R	2.25	1.25	15	Instrument	13
4	1143IF	S.C. Bayonet	12.5	1.98	-	C-2R	2.25	1.25	15	Rec. Vehicle	13
5	1195	S.C. Bayonet	12.5	3.00	50	C-2V	2.25	1.25	15	Auto	13
6	1196	D.C. Bayonet	12.5	3.00	50	C-2V	2.25	1.25	5,000	Auto	14
7	1293	S.C. Bayonet	12.5	3.00	50	C-2R	2.25	1.25	1,000	Auto	13
8	1139IF	S.C. Bayonet	12.8	1.04	15	C-6	2.25	1.25	250	Rec. Vehicle	13
9	1047	S.C. Bayonet	26.0	2.7	105	2CC-6	2.25	1.25	250	Aircraft	13
10	1054	D.C. Bayonet	32.0	.74	32	C-2V	2.25	1.25	1,000	Marine	14
11	1062	D.C. Bayonet	40.0	.92	50	C-5	2.25	1.25	500	Special Service	14
R-12 Bulb											
12	1383	S.C. Bayonet	13.0	1.50	-	C-8	2.63	-	300	Auto Reading	15
13	1385	S.C. Bayonet	28.0	.72	-	CC-8	2.63	-	300	Aircraft Reading	15
S-8 Bulb											
14	1651	S.C. Bayonet	5.0	.60	3	C-2R	2.00	1.13	20	Lantern-4 F Cells	16
15	1612	D.C. Bayonet	5.4	1.9	10	C-6	2.00	1.25	1,000	Instrument	18
16	1680	S.C. Bayonet	6.0	4.10	32	C-6	2.00	1.25	300	Aircraft	16
17	1680X	S.C. Bayonet	6.0	4.10	32	C-6	2.00	1.25	300	Aircraft	16
18	1154	D.C. Index	6.3	2.63	21	C-6	2.00	1.25	200	Auto-Park, Tail, Signal	17
			7.0	.75	3	C-6			1,000		
19	1129	S.C. Bayonet	6.4	2.63	21	C-6	2.00	1.25	200	Auto	16
20	6	D.C. Bayonet	6.4	3.0	23	C-2R	2.00	1.25	500	Special Service	18
21	1460	D.C. Prefocus	6.5	2.75	23	C-6	2.00	1.25	100	Medical Instrument	19
22	1460X	D.C. Prefocus	6.5	2.75	23	C-6	2.00	1.25	100	Silver Contacts	19
23	1493	D.C. Bayonet	6.5	2.75	23	C-6	2.00	1.13	100	Instrument	18
24	1630	D.C. Prefocus	6.5	2.75	23	C-6	2.00	1.00	100	Instrument	19
25	1631X	D.C. Prefocus	6.5	2.75	23	C-6	2.00	1.00	100	Instrument Silver Contacts	19
26	1619	S.C. Bayonet	6.7	1.90	15	C-6	2.00	1.13	500	Instrument	16
27	88	D.C. Bayonet	6.8	1.9	15	C-6	2.00	1.13	300	Auto	18
28	1295	S.C. Bayonet	12.5	3.0	50	C-2R	2.00	1.25	300	Auto	16
29	1295NA	S.C. Bayonet	12.5	3.0	37	C-2R	2.00	1.25	300	Auto Signal	16
30	93	S.C. Bayonet	12.8	1.04	15	C-2R	2.00	1.13	700	Auto	16
31	94	D.C. Bayonet	12.8	1.04	15	C-2R	2.00	1.13	700	Auto	18

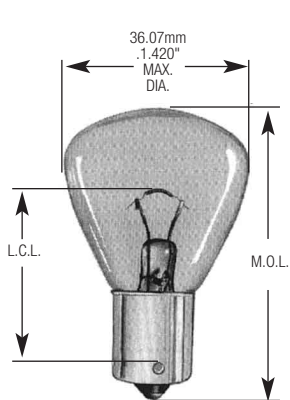


Fig. 13 (C-2R filament shown)

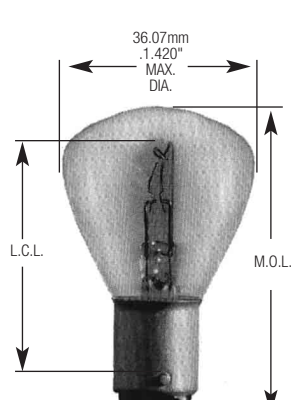


Fig. 14 (C-2V filament shown)

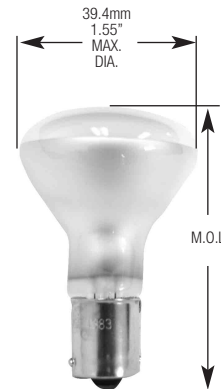


Fig. 15

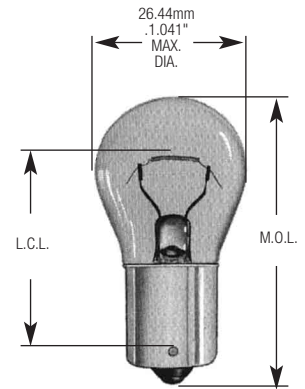


Fig. 16 (C-6 filament shown)

Some lamp pictures are not to scale. Filament and L.C.L. may vary by part number. For filament identification see page 6.

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Miniature Lamp Specifications

Line No.	Lamp No.	Base	Des. Volts	Amps or Watts	MSCP	Fil. Type	MOL (inch)	LCL (inch)	Ave Life (Hrs)	Primary Application	Fig. No.
S-8 Bulb (Continued)											
1	1016	D.C. Index	12.8	1.34	15	C-6	2.00	1.25	300	Auto-Park, Tail, Signal	17
			14.0	.59	21	C-6		1.25	1,000		
2	1152	D.C. Bayonet	12.8	1.34	21	C-2R	2.00	1.25	500	Auto	18
3	1176	D.C. Bayonet	12.8	1.34	21	C-6	2.00	1.25	200	Auto-Park, Tail, Signal	18
			14.0	.59	6	C-6			1,000		
4	1141	S.C. Bayonet	12.8	1.44	21	C-6	2.00	1.25	1,000	Auto	16
5	1141A	S.C. Bayonet	12.8	1.44	-	C-6	2.00	-	1,000	Auto	16
6	1141IF	S.C. Bayonet	12.8	1.44	-	C-6	2.00	-	1,000	Auto	16
7	1142	D.C. Bayonet	12.8	1.44	21	C-6	2.00	1.25	1,000	Auto	18
8	3155	S.F. Wedge	12.8	1.44	21	C-6	2.13	1.13	1,000	Auto	-
9	1034	D.C. Index	12.8	1.80	32	C-6	2.00	1.25	200	Auto-Park, Tail, Signal	17
			14.0	.59	3	C-6		-	5,000		
10	1034A	D.C. Index	12.8	1.8	-	C-6	2.00		200	Auto-Park, Tail, Signal	17
			14.0	.59	-	C-6			5,000		
11	1073	S.C. Bayonet	12.8	1.8	32	C-6	200	1.25	200	Auto Signal	16
12	1076	D.C. Bayonet	12.8	1.8	32	C-6	2.00	1.25	200	Auto	18
13	1076IF	D.C. Bayonet	12.8	1.8	-	C-6	2.00	1.25	200	Auto	18
14	1156	S.C. Bayonet	12.8	2.10	32	C-6	2.00	1.25	1,200	Auto	16
15	1156LL	S.C. Bayonet	12.8	2.10	32	C-6	2.00	1.25	2,400	Auto	16
16	1156DC	D.C. Bayonet	12.8	2.10	32	C-6	2.00	1.25	1,200	Auto	18
17	1156A	S.C. Bayonet	12.8	2.10	-	C-6	2.00	1.25	1,200	Auto	16
18	1156NA	S.C. Bayonet	12.8	2.10	24	C-6	2.00	1.25	1,200	Auto	16
19	1157	D.C. Index	12.8	2.10	32	C-6	2.00	1.25	1,200	Auto-Park, Tail, Signal	17
			14.0	.59	3	C-6		-	5,000		
20	1157LL	D.C. Index	12.8	2.10	32	C-6	2.00	1.25	2,400	Auto-Park, Tail, Signal	17
			14.0	.59	3	C-6		-	10,000		
21	1157A	D.C. Index	12.8	2.10	-	C-6	2.00	-	1,200	Auto-Park, Tail, Signal	17
			14.0	.59	-	C-6		-	5,000		
22	1157NA	D.C. Index	12.8	2.10	-	C-6	2.00	-	1,200	Auto-Park, Tail, Signal	17
			14.0	.59	-	C-6		-	5,000		

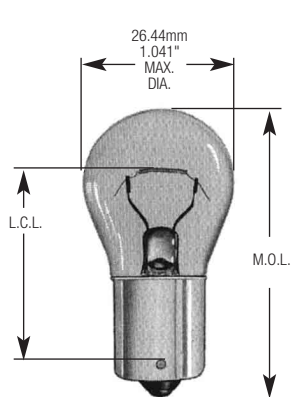


Fig. 16 (C-6 filament shown)

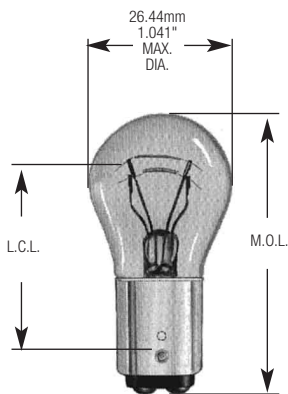


Fig. 17 (C-6/C-6 filament shown)

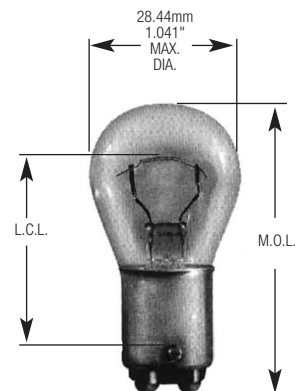


Fig. 18 (C-6 filament shown)

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Miniature Lamp Specifications

Line No.	Lamp No.	Base	Des. Volts	Amps or Watts	MSCP	Fil. Type	MOL (inch)	LCL (inch)	Ave Life (Hrs)	Primary Application	Fig. No.
S-8 Bulb (Continued)											
1	2057	D.C. Index	12.8 14.0	2.10 .48	32 2	C-6	2.00	1.25	1,200 5,000	Auto-Park, Tail, Signal	17
2	2057LL	D.C. Index	12.8 14.0	2.10 .48	32 2	C-6	2.00	1.25	2,400 10,000	Auto-Park, Tail, Signal	17
3	2057A	D.C. Index	12.8 14.0	2.10 .48	- -	C-6	2.00	1.25	1,200 5,000	Auto-Park, Tail, Signal	17
4	2057NA	D.C. Index	12.8 14.0	2.10 .48	24 1.5	C-6	2.00	1.25	1,200 5,000	Auto-Park, Tail, Signal	17
5	3057	D.F. Wedge	12.8 14.0	2.10 .48	32 2	C-6	2.13	1.13	1,200 5,000	Auto-Park, Tail, Signal	20
6	3057NA	D.F. Wedge	12.8 14.0	2.10 .48	24 1.5	C-6	2.13	1.13	1,200 5,000	Auto-Park, Tail, Signal	20
7	3156	S.F. Wedge	12.8	2.10	32	C-6	2.13	1.13	1,200	Auto	19
8	3157	D.F. Wedge	12.8 14.0	2.10 .59	32 3	C-6	2.13	1.13	1,200 5,000	Auto-Park, Tail, Signal	20
9	3157NA	D.F. Wedge	12.8 14.0	2.10 .59	24 2.2	C-6	2.13	1.13	1,200 5,000	Auto-Park, Tail, Signal	20
10	2357	D.C. Index	12.8 14.0	2.23 .59	40 3	C-6	2.00	1.25	400 5,000	Auto-Park, Tail, Signal	17
11	2357A	D.C. Index	12.8 14.0	2.20 .59	30 2.2	C-6	2.00	1.25	400 5,000	Auto-Park, Tail, Signal	17
12	2357NA	D.C. Index	12.8 14.0	1.8 .59	30 2.2	C-6	2.00	1.25	400 5,000	Auto-Park, Tail, Signal	17
13	3357	D.F. Wedge	12.8 14.0	2.23 .59	40 3	C-6	2.09	1.10	400 5,000	Auto-Park, Tail, Signal	20
14	3357NA	D.F. Wedge	12.8 14.0	2.23 .59	30 2.2	C-6	2.09	1.10	400 5,000	Auto-Park, Tail, Signal	20
15	198	D.C. Index	12.8 14.0	2.25 .62	32 3	C-6	2.00	1.25	1,200 5,000	Auto-Park, Tail, Signal	17
16	199	S.C. Bayonet	12.8	2.25	32	C-6	2.00	1.25	2400	Auto	16
17	1662	D.C. Index	28.0	.93 .34	32 6	CC-6	2.00	1.25	400 1,000	Construction Equipment	17

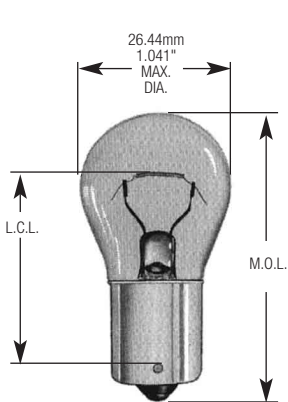


Fig. 16 (C-6 filament shown)

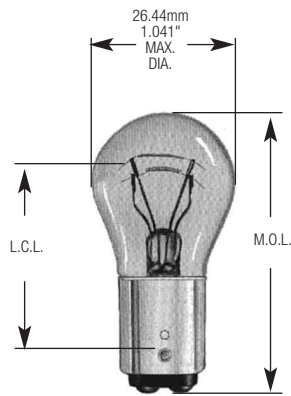


Fig. 17 (C-6/C-6 filament shown)

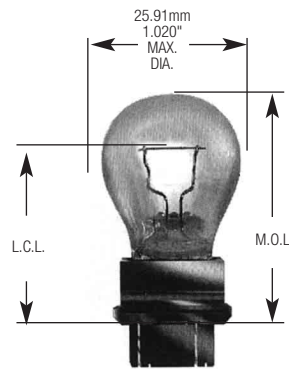


Fig. 20 (C-6/ filament shown)

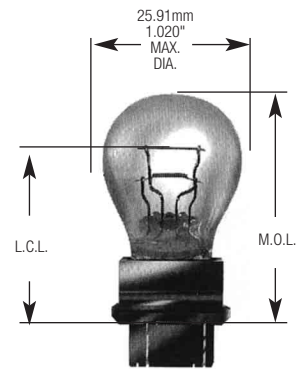


Fig. 20 (C-6/C-6 filament shown)

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Line No.	Lamp No.	Base	Des. Volts	Amps or Watts	MSCP	Fil. Type	MOL (inch)	LCL (inch)	Ave Life (Hrs)	Primary Application	Fig. No.
S-8 Bulb (Continued)											
1	305	S.C. Bayonet	28.0	.51	15	C-2V	2.00	1.12	300	Aircraft	16
2	305IF	S.C. Bayonet	28.0	.51	-	C-2V	2.00	1.12	300	Aircraft, Inside Frost	16
3	306	D.C. Bayonet	28.0	.51	15	C-2V	2.00	1.12	300	Aircraft	18
4	306IF	D.C. Bayonet	28.0	.51	-	C-2V	2.00	1.12	300	Aircraft, Inside Frost	18
5	1591	S.C. Bayonet	28.0	.61	15	C-2V	2.00	1.12	1,000	Auto	16
6	1591IF	S.C. Bayonet	28.0	.61	-	C-2V	2.00	1.12	1,000	Auto, Inside Frost	16
7	1691	S.C. Bayonet	28.0	.61	15	2C-2R	2.00	1.12	1,000	Auto	16
8	1691IF	S.C. Bayonet	28.0	.61	-	2C-2R	2.00	1.12	1,000	Auto, Inside Frost	16
9	1692	D.C. Bayonet	28.0	.61	15	2C-2R	2.00	1.12	1,000	Marine	18
10	307	S.C. Bayonet	28.0	.67	21	C-2V	2.00	1.12	300	Aircraft	16
11	307IF	S.C. Bayonet	28.0	.67	-	C-2V	2.00	1.12	300	Aircraft, Inside Frost	16
12	307R	S.C. Bayonet	28.0	.67	-	C-2V	2.00	1.12	300	Aircraft, Red	16
13	308	D.C. Bayonet	28.0	.67	21	C-2V	2.00	1.12	300	Aircraft	18
14	308IF	D.C. Bayonet	28.0	.67	-	C-2V	2.00	1.12	300	Aircraft, Inside Frost	18
15	1203	S.C. Bayonet	28.0	.71	21	C-2V	2.00	1.25	400	Auto	16
16	1204	D.C. Bayonet	28.0	.71	21	C-2V	2.00	1.25	400	Auto	18
17	1665	S.C. Bayonet	28.0	.80	21	C-2V	2.00	1.12	1,000	Aircraft	16
18	1665IF	S.C. Bayonet	28.0	.80	-	C-2V	2.00	1.12	1,000	Aircraft, Inside Frost	16
19	1638	D.C. Bayonet	28.0	1.02	32	2C-6	2.00	1.25	500	Marine	18
20	1683	S.C. Bayonet	28.0	1.02	32	2C-6	2.00	1.25	500	Auto	16
21	1229	D.C. Bayonet	40.0	.38	15	C-2V	2.00	1.12	400	Special Service	18
22	895	D.C. Bayonet	40.0	.53	14	C-13	2.00	1.25	3,800	Railroad	18
S-11 Bulb											
23	309	S.C. Bayonet	28.0	.90	32	C-2V	2.38	1.25	300	Aircraft	21
24	311	S.C. Bayonet	28.0	1.29	50	C-2V	2.38	1.25	300	Aircraft	21
25	312	D.C. Bayonet	28.0	1.29	50	C-2V	2.38	1.25	300	Aircraft	22
26	3011	S.C. Bayonet	28.0	1.29	44	C-2V	2.38	1.25	1,000	Aircraft	21

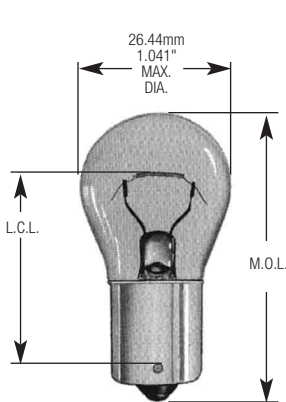


Fig. 16 (C-6 filament shown)

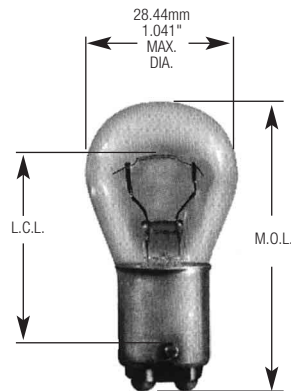


Fig. 18 (C-6 filament shown)

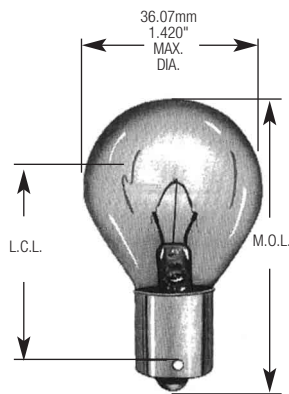


Fig. 21 (C-2V filament shown)

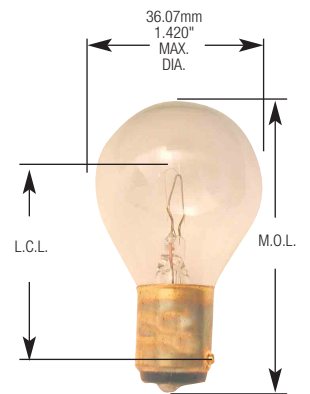


Fig. 22 (C-2V filament shown)

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Miniature Lamp Specifications

Line No.	Lamp No.	Base	Des. Volts	Amps or Watts	MSCP	Fil. Type	MOL (inch)	LCL (inch)	Ave Life (Hrs)	Primary Application	Fig. No.
T-1 Bulb											
1	6832	Wire Terminals (Short)	5.0	.06	.05	C-2R	.145	-	100,000	Aircraft	23
2	683	Wire Terminals (Standard)	5.0	.06	.05	C-2R	.250	-	100,000	Aircraft	24
3	8111	Wire Terminals (Standard)	14.0	.065	.150	C-2F	.250	-	16,000	Indicator	24
4	6838	Wire Terminals (Standard)	28.0	.024	.150	CC-2F	.250	-	16,000	Aircraft	24
5	7154AS15	Axial Leads	5.0	.115	.15	C-8	.35	-	40,000	Indicator	25
6	6839	Sub-Midget Flanged	28.0	.024	.150	CC-2F	.375	-	16,000	Aircraft	26
7	7839	Bipin	28.0	.024	.150	CC-2F	.63	-	16,000	Aircraft	27
T-1 1/2 Bulb											
8	E79	Subminiature Wedge	6.0	.20	.60	C-2R	-	-	1,000	Indicator	-
9	E86	Subminiature Wedge	6.3	.20	.40	C-2F	-	-	20,000	Indicator	-
10	E73	Subminiature Wedge	14.0	.08	.30	C-2F	-	-	15,000	Auto	-
11	E37	Subminiature Wedge	14.0	.09	.50	C-2F	-	-	2,500	Auto	-
12	E74	Subminiature Wedge	14.0	.10	.70	C-2F	-	-	500	Auto	-
13	E85	Subminiature Wedge	28.0	.04	.30	C-2F	-	-	7,000	Indicator	-
14	E17	Subminiature Wedge	28.0	.065	.65	C-2F	-	-	5,000	Indicator	-
T-1 3/4 Bulb											
15	1767	Midget Screw	2.5	.20	.20	C-2R	.63	.52	500	Toy	29
16	338	S.C. Midget Flanged	2.7	.06	.04	C-2R	.63	.38	6,000	Indicator	30
17	345	S.C. Midget Flanged	6.0	.04	.03	C-2V	.63	.38	10,000	Indicator	30
18	328	S.C. Midget Flanged	6.0	.20	.34	C-2R	.63	.38	1,000	Aircraft	30
19	79	Subminiature Wedge	6.0	.20	.60	C-2R	.80	.40	1,000	Indicator	31
20	7381	Bipin	6.3	.20	.40	C-2V	.66	.50	20,000	PC Boards	28
21	86	Subminiature Wedge	6.3	.20	.40	C-2F	.80	.40	20,000	Indicator	31
22	379	Midget Grooved	6.3	.20	.40	C-2V	.63	.38	20,000	Indicator	32
23	381	S.C. Midget Flanged	6.3	.20	.40	C-2V	.63	.38	20,000	Indicator	30
24	367	S.C. Midget Flanged	10.0	.04	.08	C-2F	.63	.38	5,000	Indicator	30
25	73	Subminiature Wedge	14.0	.08	.30	C-2F	.80	.40	15,000	Auto	31
26	330	S.C. Midget Flanged	14.0	.08	.50	C-2F	.63	.38	1,500	Aircraft	30
27	382	S.C. Midget Flanged	14.0	.08	.30	C-2F	.63	.38	15,000	Indicator	30
28	2182D	Wire Terminal	14.0	.08	.30	C-2F	-	-	40,000	Indicator	-
29	386	Midget Grooved	14.0	.08	.30	C-2F	.63	.38	40,000	Indicator	32
30	37	Subminiature Wedge	14.0	.09	.50	C-2F	.80	.40	2,500	Auto	31

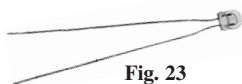


Fig. 23



Fig. 24



Fig. 25



Fig. 26



Fig. 27

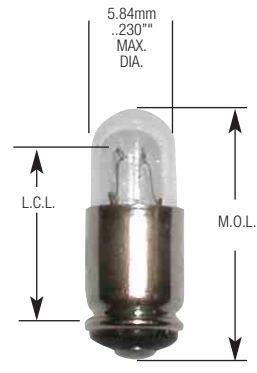
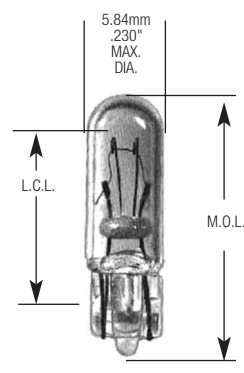
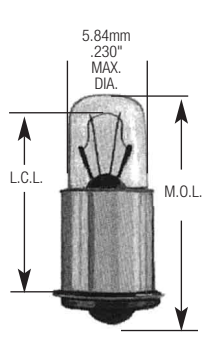
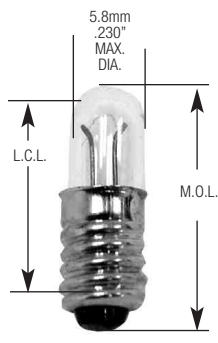
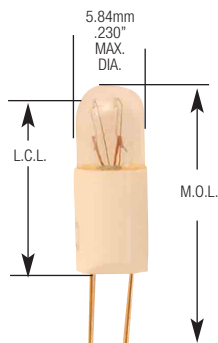


Fig. 28 (C-2V filament shown) Fig. 29 (C-2R filament shown) Fig. 30 (C-2F filament shown) Fig. 31 (C-2F filament shown) Fig. 32 (C-2F filament shown)

Some lamp pictures are not to scale. Filament and L.C.L. may vary by part number. For filament identification see page 6.

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Miniature Lamp Specifications

Line No.	Lamp No.	Base	Des. Volts	Amps or Watts	MSCP	Fil. Type	MOL (inch)	LCL (inch)	Ave Life (Hrs)	Primary Application	Fig. No.
T-1 3/4 Bulb (Continued)											
1	74	Subminiature Wedge	14.0	.10	.70	C-2F	.80	.40	500	Auto	31
2	7373	Bipin	14.0	.10	.50	C-2F	.66	.50	10,000	PC Boards	28
3	7387	Bipin	28.0	.04	.30	C-2F	.66	.50	7,000	Indicator	28
4	70	Subminiature Wedge	14.0	.15	1.5	C-2F	.63	.40	100	Auto	31
5	2187D	Wire Terminal	28.0	.04	.30	C-2F	-	-	1,000	Indicator	-
6	85	Subminiature Wedge	28.0	.04	.30	C-2F	.80	.40	7,000	Indicator	31
7	320A	Special Thread	28.0	.04	-	C-2F	-	-	1,000	Amber, Aircraft	-
8	385	S.C. Midget Flanged	28.0	.04	.15	C-2F	.63	.38	10,000	Indicator	30
9	387	S.C. Midget Flanged	28.0	.04	.30	C-2F	.63	.38	7,000	Indicator	30
10	388	Midget Grooved	28.0	.04	.30	C-2F	.63	.38	7,000	Indicator	32
11	327	S.C. Midget Flanged	28.0	.04	.34	C-2F	.63	.38	4,000	Aircraft	30
12	334	Midget Grooved	28.0	.04	.34	C-2F	.63	.38	4,000	Aircraft	32
13	335	Midget Screw	28.0	.04	.34	C-2F	.72	.52	4,000	Indicator	29
14	17	Subminiature Wedge	28.0	.065	.65	C-2F	.80	.40	5,000	Indicator	31

T-2 Bulb											
15	6PSB	Slide No. 5	6.0	.14	2550	C-2F	1.12	-	20,000	Indicator	33
16	12PSB	Slide No. 5	12.0	.17	2000	C-2F	1.12	-	12,000	Indicator	33
17	24E	Slide No. 3	24.0	.035	600	C-2F	1.69	-	7,000	Telephone	34
18	24E1	Slide No. 3	24.0	.035	450	C-2F	1.69	-	5,000	Telephone	34
19	24E2	Slide No. 2	24.0	.03	600	C-2F	1.69	-	8,000	Indicator	34
20	24PSB	Slide No. 5	24.0	.073	3000	C-2F	1.12	-	10,000	Indicator	33
21	24X	Special Slide No. 2	24.0	.035	600	C-2F	1.69	-	8,000	Special Telephone	-
22	28PSB	Slide No. 5	28.0	.04	1600	C-2F	1.12	-	5,000	Indicator	33
23	48PSB	Slide No. 5	48.0	.05	1800	C-7A	1.12	-	10,000	Indicator	33
24	60PSB	Slide No. 5	60.0	.05	2200	C-7A	1.12	-	7,500	Indicator	33
25	120PSB	Slide No. 5	120.0	.025	1200	CC-7A	1.12	-	7,500	Indicator	33
26	155PSB	Slide No. 5	155.0	.025	1200	CC-7A	1.12	-	10,000	Indicator	33

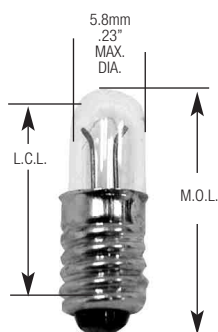


Fig. 29 (C-2R filament shown)

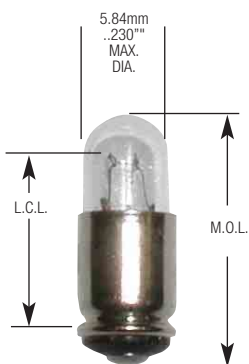


Fig. 32 (C-2F filament shown)

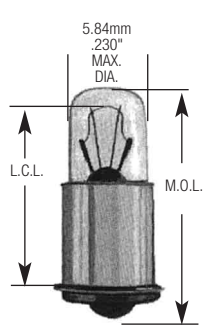


Fig. 30 (C-2F filament shown)

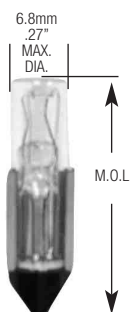


Fig. 33 (C-2F filament shown)

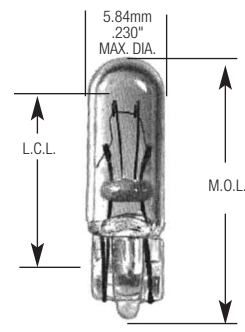


Fig. 31 (C-2F filament shown)

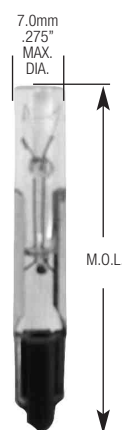


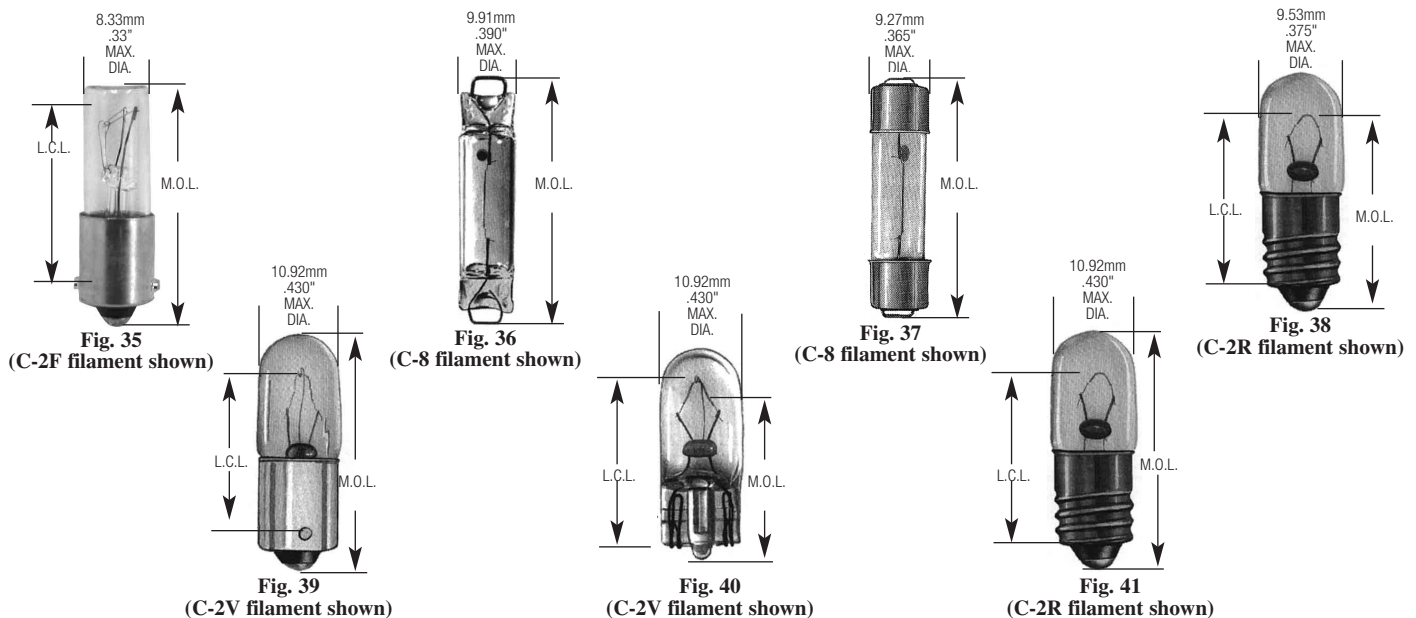
Fig. 34 (C-2F filament shown)

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Miniature Lamp Specifications

Line No.	Lamp No.	Base	Des. Volts	Amps or Watts	MSCP	Fil. Type	MOL (inch)	LCL (inch)	Ave Life (Hrs)	Primary Application	Fig. No.
T-2 1/2 Bulb											
1	6MB	Miniature Bayonet	6.0	.14	.12	C-2F	1.19	.95	20,000	Indicator	35
2	12MB	Miniature Bayonet	12.0	.17	.35	C-2F	1.19	.95	12,000	Indicator	35
3	24MB	Miniature Bayonet	24.0	.07	.50	C-2F	1.19	.95	10,000	Indicator	35
4	28MB	Miniature Bayonet	28.0	.05	.29	C-2F	1.19	.95	5,000	Indicator	35
5	48MB	Miniature Bayonet	48.0	.05	.70	C-7A	1.19	.95	10,000	Indicator	35
6	60MB	Miniature Bayonet	60.0	.05	.73	C-7A	1.19	.95	7,500	Indicator	35
7	90MB	Miniature Bayonet	90.0	.03	.37	CC-7A	1.19	.95	5,000	Indicator	35
8	120MB	Miniature Bayonet	120.0	.025	.36	CC-7A	1.19	.95	10,000	Indicator	35
9	130MB	Miniature Bayonet	130.0	.025	.36	CC-7A	1.19	.95	10,000	Indicator	35
10	155MB	Miniature Bayonet	155.0	.025	.36	CC-7A	1.19	.95	10,000	Indicator	35
T-3 Bulb											
11	561	Rigid Loop	12.8	.97	12	C-8	1.72	-	1,000	Auto-Dome	36
12	563	Rigid Loop	13.5	.52	4	C-8	1.72	-	1,000	Auto-Dome	36
13	211-2	End Caps	12.8	.97	12	C-8	1.72	-	1,000	Auto	37
14	212-2	End Caps	13.5	.74	6	C-8	1.72	-	2,000	Auto	37
15	562	Rigid Loop	13.5	.74	6	C-8	1.72	-	2,000	Auto-Interior	36
16	564	Rigid Loop	14.0	.44	2	C-8	1.72	-	7,500	Auto-Interior	36
17	1477	Miniature Screw	24.0	.17	3.3	C-2V	1.25	.81	250	Indicator	38
T-3 1/4 Bulb											
18	1490	Miniature Bayonet	3.2	.16	.20	C-2R	1.19	.71	3,000	Radio	39
19	45	Miniature Bayonet	3.2	.35	.50	C-2R	1.19	.71	3,000	Radio	39
20	1906	Miniature Bayonet	5.0	.07	.19	C-6	1.19	.63	1,000	Signal	39
21	285	Wedge	5.0	.09	.25	C-2R	1.06	.56	1,500	Signal	40
22	1850	Miniature Bayonet	5.0	.09	.25	C-2R	1.19	.63	1,500	Auto Signal	39
23	40	Miniature Screw	6.3	.15	.50	C-2R	1.19	.89	3,000	Radio	41
24	47	Miniature Bayonet	6.3	.15	.50	C-2R	1.19	.71	3,000	Radio, Coin	39
25	447	Wedge	6.3	.15	.52	C-2V	1.06	.56	1,500	Indicator, Coin	40
26	755	Miniature Bayonet	6.3	.15	.33	C-2R	1.19	.71	20,000	Indicator	39
27	1847	Miniature Bayonet	6.3	.15	.38	C-2R	1.19	.71	5,000+	Radio	39



Some lamp pictures are not to scale. Filament and L.C.L. may vary by part number. For filament identification see page 6.

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Miniature Lamp Specifications

Line No.	Lamp No.	Base	Des. Volts	Amps or Watts	MSCP	Fil. Type	MOL (inch)	LCL (inch)	Ave Life (Hrs)	Primary Application	Fig. No.
T-3 1/4 Bulb (Continued)											
1	1866	Miniature Bayonet	6.3	.25	.65	C-2R	1.19	.71	5,000	Radio	39
2	44	Miniature Bayonet	6.3	.25	.90	C-2R	1.19	.71	3,000	Indicator, Coin	39
3	46	Miniature Screw	6.3	.25	.90	C-2R	1.19	.90	3,000	Radio	41
4	259	Wedge	6.3	.25	.65	C-2R	1.06	.65	5,000	Radio	40
5	555	Wedge	6.3	.25	.90	C-2R	1.25	.65	3,000	Coin Machine	40
6	1810	Miniature Bayonet	6.3	.40	1.4	C-2R	1.13	.72	3,000	Special Service	39
7	280	Wedge	10.0	.13	.85	C-2V	1.06	.56	250	Indicator	40
8	1408	Miniature Bayonet	10.0	.13	.85	C-2V	1.19	.63	250	Signal	39
9	192	Wedge	13.0	.33	3	C-2V	1.06	.56	1,000	Auto	40
10	1816	Miniature Bayonet	13.0	.33	3	C-2V	1.19	.63	1,000	Aircraft, Auto	39
11	658	Wedge	14.0	.08	.31	C-2F	1.06	.56	15,000	Indicator	40
12	756	Miniature Bayonet	14.0	.08	.31	C-2F	1.13	.63	15,000	Indicator	39
13	161	Wedge	14.0	.19	1	C-2F	1.06	.56	4,000+	Auto Instrument	40
14	1815	Miniature Bayonet	14.0	.20	1.4	C-2V	1.19	.71	3,000	Indicator	39
15	1898	Miniature Bayonet	14.0	.24	2	2C-2R	1.19	.63	7,500	Auto Radio	39
16	158	Wedge	14.0	.24	2	C-2V	1.06	.56	500	Auto Instrument	40
17	1891	Miniature Bayonet	14.0	.24	2	C-2F	1.19	.56	500	Auto	39
18	194	Wedge	14.0	.27	2	C-2F	1.06	.56	2,500	Auto Instrument	40
19	194A	Wedge	14.0	.27	-	C-2F	1.06	-	2,500	Auto Side Marker	40
20	256	Miniature Bayonet	14.0	.27	-	C-2R	1.19	.63	500	Auto Flashing	39
21	1889	Miniature Bayonet	14.0	.27	2	C-2F	1.19	.56	2,000	Auto	39
22	193	Wedge	14.0	.33	2	C-2F	1.06	.56	7,500	Auto Instrument	40
23	1893	Miniature Bayonet	14.0	.33	2	C-2F	1.19	.63	7,500	Auto	39
24	168	Wedge	14.0	.35	3	C-2F	1.06	.56	1,500	Auto Instrument	40
25	3652	Wedge	14.0	.35	5	C-2V	1.06	.50	500	Auto-Krypton	40
26	1813	Miniature Bayonet	14.4	.10	.86	C-2F	1.19	.63	1,000	Radio	39
27	1892	Miniature Bayonet	14.4	.12	.75	C-2F	1.19	.63	1,000	Auto	39
28	1818	Miniature Bayonet	24.0	.17	3.3	C-2F	1.19	.63	250	Aircraft	39
29	1843	Miniature Bayonet	28.0	.022	.20	C-2F	1.19	.63	3,000	Indicator	39

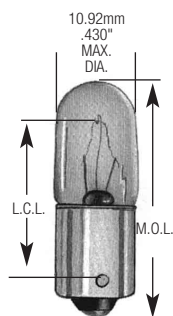


Fig. 39
(C-2V filament shown)

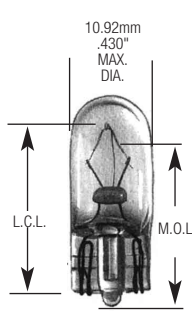


Fig. 40
(C-2V filament shown)

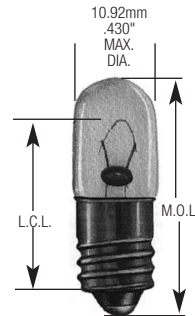


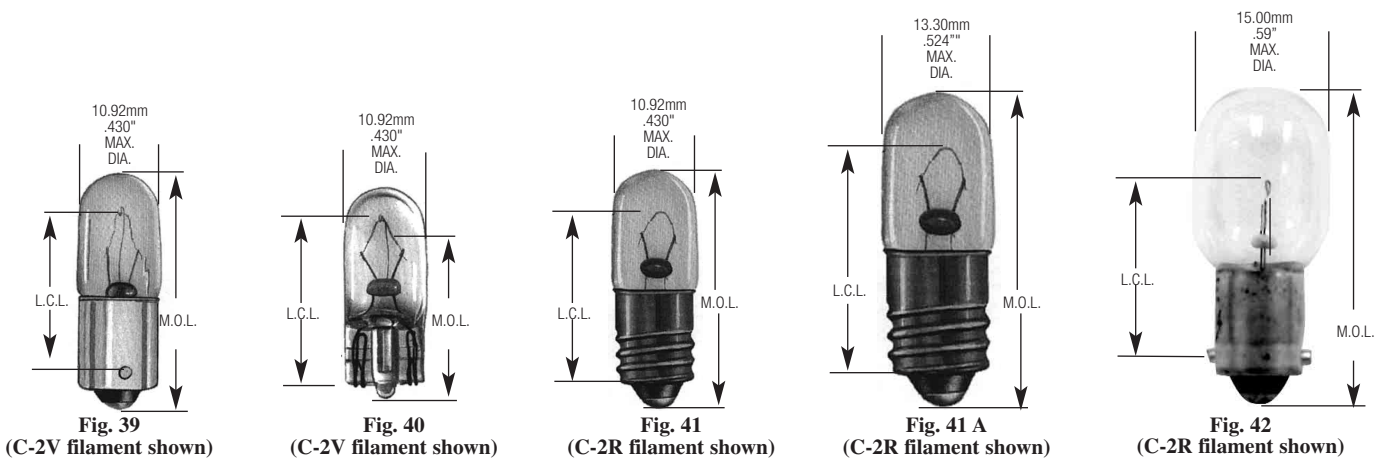
Fig. 41
(C-2R filament shown)

Some lamp pictures are not to scale. Filament and L.C.L. may vary by part number. For filament identification see page 6.

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Miniature Lamp Specifications

Line No.	Lamp No.	Base	Des. Volts	Amps or Watts	MSCP	Fil. Type	MOL (inch)	LCL (inch)	Ave Life (Hrs)	Primary Application	Fig. No.
T-3 1/4 Bulb (Continued)											
1	1819	Miniature Bayonet	28.0	.04	.34	C-2F	1.19	.63	2,500	Indicator	39
2	656	Wedge	28.0	.06	.62	C-2F	1.06	.56	2,500	Indicator	40
3	152	Wedge	28.0	.065	.85	C-2F	1.05	.50	10,000	Indicator	40
4	585	Wedge	28.0	.040	.30	C-2F	1.06	.56	7,000	Indicator	40
5	1829	Miniature Bayonet	28.0	.07	1.0	C-2F	1.19	.63	1,000	Indicator	39
6	657	Wedge	28.0	.08	.62	C-2F	1.06	.56	7,500	Indicator	40
7	757	Miniature Bayonet	28.0	.08	.62	C-2F	1.19	.63	7,500	Indicator	39
8	400	Wedge	28.0	.10	1.6	C-2V	1.06	.56	1,000	Aircraft	40
9	1820	Miniature Bayonet	28.0	.10	1.6	C-2F	1.19	.63	1,000	Indicator	39
10	1821	Miniature Screw	28.0	.17	3.4	C-2F	1.19	.83	500	Indicator	41
11	313	Miniature Bayonet	28.0	.17	3.5	C-2F	1.19	.63	500	Aircraft	39
12	464	Wedge	28.0	.17	3.0	C-2F	1.06	.56	1,500	Aircraft	40
13	1864	Miniature Bayonet	28.0	.17	3.0	C-2F	1.19	.63	1,500	Auto Instrument	39
14	655	Wedge	28.0	.20	3.0	C-2F	1.05	.56	7,000	Indicator	40
15	1873	Miniature Bayonet	28.0	.20	3.0	C-2F	1.19	.63	7,000	Aircraft	39
16	1822	Miniature Bayonet	36.0	.10	2.1	C-2F	1.19	.63	1,000	Indicator	39
17	1828	Miniature Bayonet	37.5	.05	.65	C-2F	1.19	.63	3,000	Indicator	39
18	1823	Miniature Screw	48.0	.10	3.2	C-2F	1.19	.81	1,000	Indicator	41
19	1835	Miniature Bayonet	55.0	.05	1.10	C-2F	1.19	.63	5,000	Indicator	39
T-4 Bulb											
20	1479	Candelabra Screw	14.0	.17	1.7	C-2V	1.38	.94	250	Indicator	41A
21	1480	Candelabra Screw	18.0	.17	1.7	C-2V	1.38	.94	250	Indicator	41A
22	1841	Candelabra Screw	24.0	.17	1.7	C-2F	1.38	.94	250	Indicator	41A
T-4 1/2 Bulb											
23	1414	Miniature Bayonet	14.0	.46	6.0	C-2R	1.38	.63	500	Aircraft	42
24	1495	Miniature Bayonet	28.0	.30	6.0	C-2F	1.38	.63	500	Aircraft	42



Some lamp pictures are not to scale. Filament and L.C.L. may vary by part number. For filament identification see page 6.

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Miniature Lamp Specifications

Line No.	Lamp No.	Base	Des. Volts	Amps or Watts	MSCP	Fil. Type	MOL (inch)	LCL (inch)	Ave Life (Hrs)	Primary Application	Fig. No.
T-4 3/4 Bulb											
1	570	Rigid Loop	12.8	2.10	32	C-8	-	-	600	Auto-Truck	43
2	577	Double End Cap	12.8	2.10	21	C-8	-	-	1,000	Auto	44
T-5 Bulb											
3	1876	S.C. Bayonet	3.5	2.50	6.5	C-6	1.75	1.12	2,000	Special Service	45
4	1874	S.C. Bayonet	3.7	2.75	11.0	C-6	1.75	1.12	100	Instrument	45
5	914	Wedge	4.0	.90	3.5	C-6	1.49	.81	50	Emergency Lighting	46
6	926	Wedge	4.0	1.80	7.5	C-2R	1.49	.81	50	Emergency Lighting	46
7	909	Wedge	6.0	.62	3.0	C-2R	1.49	.81	50	Emergency Lighting	46
8	939	Wedge	6.0	.90	5.4	C-2R	1.49	.81	50	Emergency Lighting	46
9	927	Wedge	6.0	1.20	8.0	C-2R	1.49	.81	50	Emergency	46
10	908	Wedge	6.0	1.50	12.0	C-2R	1.49	.81	50	Emergency	46
11	915	Wedge	12.0	.75	11.0	C-2R	1.49	.81	50	Emergency	46
12	917	Wedge	12.0	1.20	10.0	C-2F	1.49	.81	1,200	Auto	46
13	901	Wedge	12.8	.335	3.7	C-2R	1.49	.81	300	Garden/Security	46
14	918	Wedge	12.8	.56	6.5	C-2R	1.49	.81	500	Garden/Security	46
15	923	Wedge	12.8	.91	12.5	C-2R	1.49	.81	500	Garden/Security	46
16	922	Wedge	12.8	.98	15.0	C-2R	1.49	.81	200	Auto	46
17	912	Wedge	12.8	1.00	12.0	C-2R	1.49	.81	1,000	Auto	46
18	912F	Wedge	12.8	1.00	-	C-2R	1.49	.81	1,000	Auto	46
19	921	Wedge	12.8	1.40	21.0	C-2R	1.49	.81	1,000	Auto	46
20	921F	Wedge	12.8	1.40	-	C-2R	1.49	.81	1,000	Auto	46
21	916	Wedge	13.0	.54	2.0	C-2F	1.49	.81	10,000	Auto	46
22	916NA	Wedge	13.0	.54	-	C-2F	1.49	.81	10,000	Auto	46
23	906	Wedge	13.0	.69	6.0	C-2F	1.49	.81	1,000	Auto	46
24	906F	Wedge	13.0	.69	-	C-2F	1.49	.81	1,000	Auto	46
25	904	Wedge	13.5	.69	4.0	C-2F	1.49	.81	5,000	Auto	46
26	928	Wedge	28.0	.30	6.0	C-2F	1.49	.81	500	Indicator	46

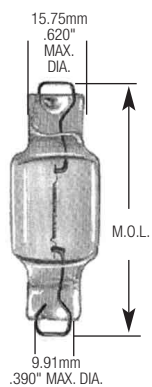


Fig. 43
(C-8 filament shown)



Fig. 44
(C-8 filament shown)

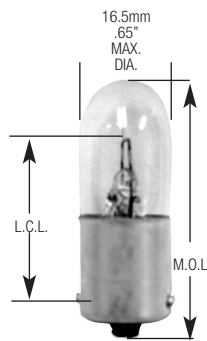


Fig. 45
(C-6 filament shown)

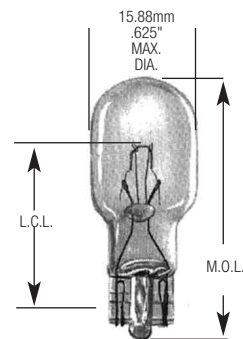


Fig. 46
(C-2F filament shown)

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Miniature Lamp Specifications

Line No.	Lamp No.	Base	Des. Volts	Amps or Watts	MSCP	Fil. Type	MOL (inch)	LCL (inch)	Ave Life (Hrs)	Primary Application	Fig. No.
T-6 Bulb											
1	3496	D.C. Index	12.8	2.10	43	C-6	2.00	1.25	-	Krypton Auto Stop Signal Park	47
2	3497	S.C. Bayonet	12.8	.59	3	C-6	2.00	1.25	-	Krypton Auto Stop Signal High Mount	48
T-6 1/2 Bulb											
3	7440	Wedge	13.5	25W	36	C-6	1.75	1.14	300	Auto 12V, 21W	49
4	7443	Wedge	13.5	25/6W	35/2.8	C-6/6.6	1.75	.98	300/1000	Auto 12V, 21W/5W	49
TL-3Bulb											
5	112	Miniature Screw	1.2	.22	-	S-2	-	-	5	Flashlight - 1AA	50
6	222	Miniature Screw	2.25	.25	-	C-6	-	-	5	Flashlight - 2AA	50
7	243	Miniature Screw	2.33	.27	-	C-2R	-	-	10	Flashlight 2 C-Cells	50

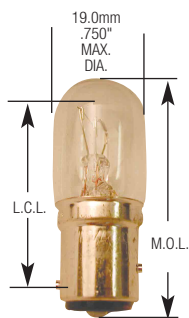


Fig. 47
(C-6/C-6 filament shown)

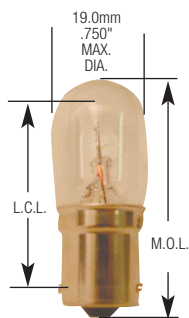


Fig. 48
(C-6 filament shown)

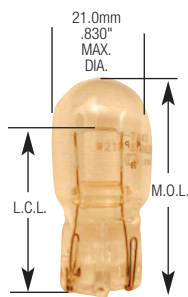


Fig. 49
(C-6 filament shown)

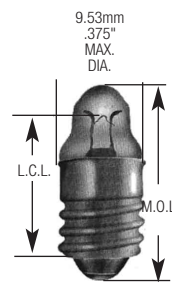


Fig. 50
(C-2R filament shown)

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Neon Glow Lamps

Line No.	Lamp No.	Bulb Type	Base	Circuit Volts	Breakdown Voltage		Watts	Series Resistance (OHMS)	Life Hours	Fig. No.
					AC	Max DC				
1	A1A	T-2	Wire Terminal	105-125	65	90	1/17	150,000	25K	51
2	A1B	T-2	Wire Terminal	105-125	65	90	1/25	220,000	25K	51
3	A9A	T-2	Wire Terminal	105-125	65	90	1/15	100,000	25K	51
4	B1A	T-3 1/4	Miniature Bayonet	105-125	95	135	1/25	220,000	15K	52
5	B2A	T-3 1/4	Miniature Bayonet	105-125	95	135	1/7	47,000	25K	52
6	B7A	T-4 1/2	Candelabra	105-125	65	90	1/4	30,000	5K	53
7	B9A	T-4 1/2	D.C. Bayonet	105-125	65	90	1/4	30,000	5K	54
8	C2A	T-2	Wire Terminal	105-125	95	135	1/4	30,000	25K	51
9	C7A	T-2	S.C. Midget Flange	105-125	65	90	1/15	100,000	25K	55
10	C9A	T-2	S.C. Midget Flange	105-125	95	135	1/4	30,000	25K	55

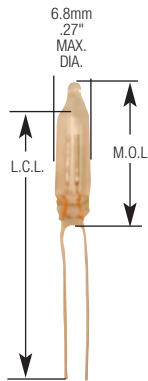


Fig. 51

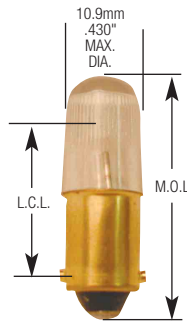


Fig. 52

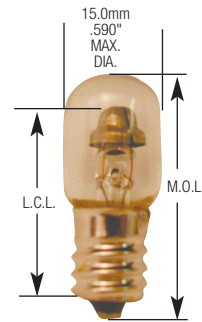


Fig. 53

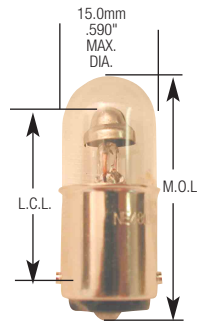


Fig. 54

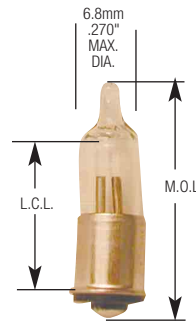


Fig. 55

Some lamp pictures are not to scale. Filament and L.C.L. may vary by part number. For filament identification see page 6.

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Halogen Lamps

Line No.	Lamp No.	Base	Des. Volts	Amps or Watts	MSCP	Fil. Type	MOL (inch)	LCL (inch)	Ave Life (Hrs)	Primary Application	Fig. No.
1	OSRAM-64150	P14.5s	12.0	55W	-	C-8	2.43	.98	225	Auto Fog/Aux.	56
2	OSRAM-64152	P14.5s	12.0	100W	-	C-8	2.43	.98	50	Auto Fog/Aux.	56
3	OSRAM-64155	P14.5s	24.0	70W	-	C-8	2.43	.98	225	Auto Fog/Aux.	56
4	OSRAM-64173	X511	12.0	55W	-	C-8	1.20	.48	225	Aux. Off-Road	57
5	HELLA-78127	X511	12.0	100W	-	C-8	1.20	.48	100	Aux. Off-Road	57
6	HELLA-78159	P43t	12.0	100/90W	-	C-6	3.61	1.12	100/200	Auto Fog/Aux.	59
7	OSRAM-64151	PK22s	12.0	55W	-	C-6	1.65	.71	150	Auto Fog/Aux.	58
8	OSRAM-64153	PK22s	12.0	100W	-	C-6	1.65	.71	100	Auto Fog/Aux.	58
9	OSRAM-64156	PK22s	24.0	70W	-	C-6	1.65	.71	150	Auto Fog/Aux.	58
10	OSRAM-64193	P43t	12.0	60/55W	-	C-6	3.61	1.12	100/200	Auto Fog/Aux.	59
11	OSRAM-64198	P45t	12.0	60/55W	-	C-6	3.61	1.11	100/200	Auto Fog/Aux.	60
12	OSRAM-64191	P43t	12.0	100/55W	-	C-6	3.61	1.12	100/200	Auto Fog/Aux.	59
13	OSRAM-64194	P43t	12.0	100/80W	-	C-6	3.61	1.12	100/200	Auto Fog/Aux.	59
14	CANDLEPOWER-4750X	P43t	24.0	75/70W	-	C-6	3.61	1.12	150/300	Auto Fog/Aux.	59
15	CANDLEPOWER-4900	P43t	12.0	130/90W	-	C-6	3.61	1.12		Auto Fog/Aux.	59
16	CANDLEPOWER-4920	PK22s	12.0	130W	-	C-6	1.65	.71	150	Auto Fog/Aux.	58
17	JC-12V/10W/G4	G4 Two Pin	12.8	10W	-	C-6	1.22	.77	2000	Auto	61
18	JC-12V/20W/G4	G4 Two Pin	12.8	20W	-	C-6	1.22	.77	2000	Auto	61
19	795	S.C. Bayonet	12.8	50W	108	C-6	2.50	1.25	200	Signal	62
20	795X	S.C. Bayonet	12.8	50W	108	C-8	2.50	1.25	200	Signal	62
21	796	S.C. Bayonet	12.8	35W	60	C-6	2.50	1.25	300	Signal	62
22	880	Axial Prefocus	12.8	27W	43	C-6	2.68	1.25	300	Auto Fog	63
23	881	Right Angle Prefocus	12.8	27W	43	C-6	2.68	1.25	300	Auto Fog	64
24	884	Axial	12.8	27W	43	C-6	2.68	1.25	300	Auto	65
25	885	Axial Prefocus	12.8	50W	100	C-6	2.68	1.25	200	Auto Fog	63
26	886	Right Angle	12.8	50W	100	C-6	2.68	1.25	200	Auto Fog	66

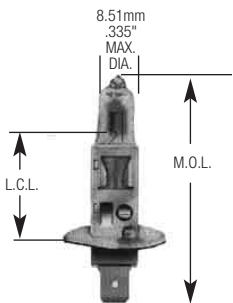


Fig. 56 (C-8 filament shown)

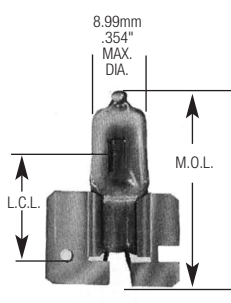


Fig. 57 (C-8 filament shown)

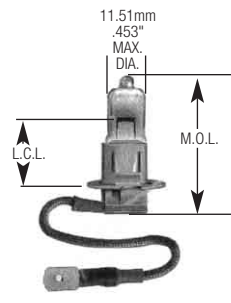


Fig. 58 (C-6 filament shown)

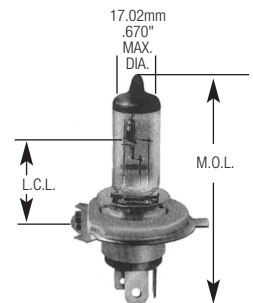


Fig. 59 (C-8/C8 filament shown)

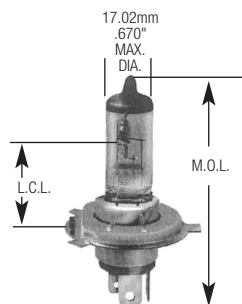


Fig. 60 (C-8/C8 filament shown)

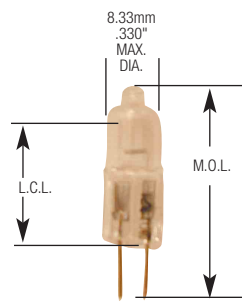


Fig. 61 (C-6 filament shown)

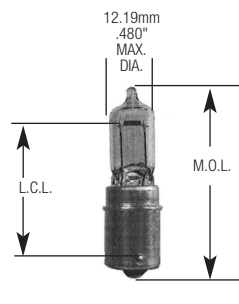


Fig. 62 (C-6 filament shown)

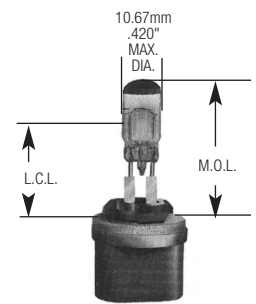


Fig. 63 (C-6 filament shown)

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Halogen Lamps (Continued)

Line No.	Lamp No.	Base	Des. Volts	Amps or Watts	MSCP	Fil. Type	MOL (inch)	LCL (inch)	Ave Life (Hrs)	Primary Application	Fig. No.
1	889	Right Angle	12.8	27W	43	C-6	2.68	1.00	300	Auto Signal	66
2	890	Axial	12.8	27W	43	C-6	2.68	1.00	300	Auto Signal	65
3	893	Axial Prefocus	12.8	37W	75	C-6	2.68	1.25	200	Auto Fog	63
4	894	Right Angle	12.8	37W	75	C-6	2.68	1.25	200	Tractor	66
5	896	Right Angle	12.8	37W	75	C-6	2.68	1.25	200	Auto Fog	66
6	9003	P43t	12.8	60/55	-	C-8	3.61	1.12	150/320	Auto-Headlamp	59
7	9004*	Special	12.8/12.8	65/45	75/135	C-6/C-6	2.76	1.75	150/320	Auto-Headlamp	67
8	9004/100/55W*	Special	12.8/12.8	100/55	-	C-6/C-6	2.76	1.75	100/200	Auto-Headlamp	67
9	9004/100/80W*	Special	12.8/12.8	100/80	-	C-6/C-6	2.76	1.75	100/200	Auto-Headlamp	67
10	9005*	Special	12.8	65	-	C-8	2.16	1.24	150	Auto-Upper Beam	68
11	9005/100W*	Special	12.8	100	-	C-8	2.16	1.24	100	Auto-Upper Beam	68
12	9006*	Special	12.8	55	-	C-8	2.16	1.24	320	Auto-Lower Beam	69
13	9006/80W*	Special	12.8	80	-	C-8	2.16	1.24	200	Auto-Lower Beam	69
14	9007*	Special	12.8/12.8	65/55	-	C-8	2.76	1.75	150/320	Auto-Headlamp	70
15	9007/100/55W*	Special	12.8/12.8	100/55	-	C-8	2.76	1.75	100/200	Auto-Headlamp	70
16	9007/100/80W*	Special	12.8/12.8	100/80	-	C-8	2.76	1.75	100/200	Auto-Headlamp	70

*ALSO AVAILABLE IN ALL WEATHER, DIAMOND BLUE, AND HIGH INTENSITY BLUE.

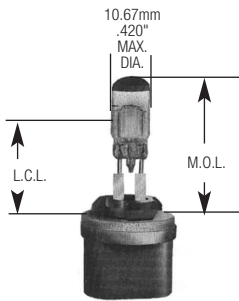


Fig. 63 (C-6 filament shown)

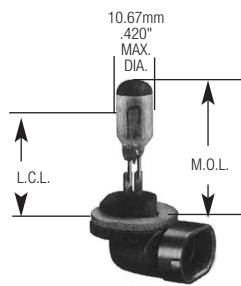


Fig. 64 (C-6 filament shown)

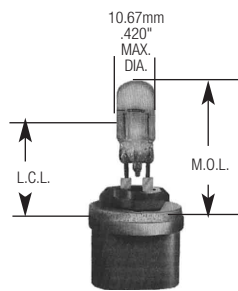


Fig. 65 (C-6 filament shown)

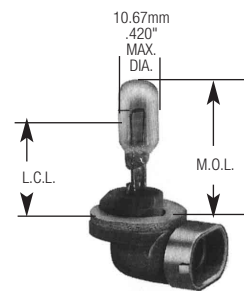


Fig. 66 (C-6 filament shown)

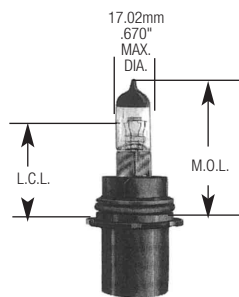


Fig. 67 (C-6/C-6 filament shown)

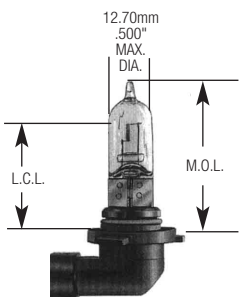


Fig. 68 (C-8 filament shown)

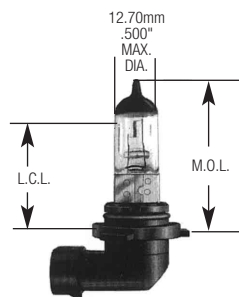


Fig. 69 (C-8 filament shown)

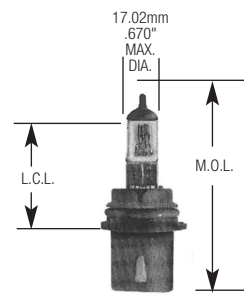


Fig. 70 (C-8 filament shown)

Some lamp pictures are not to scale. Filament and L.C.L. may vary by part number. For filament identification see page 6.

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Miniature Halogen Lamps

Line No.	Lamp No.	Base	Des. Volts	Amps or Watts	MSCP	Fil. Type	MOL (inch)	LCL (inch)	Ave Life (Hrs)	Primary Application	Fig. No.
T-2 1/4 Bulb											
1	777	G4 Two Pin	4.0	1.20	5.5	C-6	1.0	.77	275	Flashlight	71
2	784	G4 Two Pin	6.0	1.00	9	C-6	1.0	.77	50	Emergency Lighting	71
3	785	G4 Two Pin	6.0	1.33	13	C-6	1.0	.77	50	Emergency Lighting	71
4	787	G4 Two Pin	6.0	1.67	16	C-6	1.0	.77	100	Instrument	71
5	767	Miniature Bayonet	6.0	2.00	19	C-6	1.13	.56	50	Instrument	72
6	786	G4 Two Pin	6.0	2.00	19	C-6	1.0	.77	50	Emergency Lighting	71
7	788	G4 Two Pin	6.0	3.33	32	C-6	1.0	.77	100	Instrument	71
8	774	G4 Two Pin	12.0	.67	.13	C-6	1.0	.77	50	Emergency Lighting	71
9	783	G4 Two Pin	12.0	1.00	22	C-6	1.0	.77	50	Emergency Lighting	71
10	882	PC Socket	12.8	.35	3.8	C-6	1.18	.37	2,000	Auto Instrument	73
11	882X	G4 Two Pin	12.8	.35	3.8	C-6	1.0	.77	2,000	Auto Instrument	71
12	2040	Wedge	12.8	.625	10.5	C-6	1.25	.40	500	Auto Light Bar	74
13	891	G4 Two Pin	12.8	.63	11	C-6	1.0	.77	500	Auto, Stop	71
T-2 3/4 Bulb											
14	778	G4 Two Pin	6.0	3.33	32	C-6	1.05	.77	100	Instrument	75
15	773	G4 Two Pin	12.0	.67	10	C-6	1.05	.77	1,000	Special Service	75
16	789	G4 Two Pin	12.0	1.17	22	C-6	1.05	.77	200	Instrument	75
17	782	G4 Two Pin	12.0	1.66	25	C-6	1.05	.77	2,000	Special Service	75
18	790	G4 Two Pin	14.0	1.79	42	C-6	1.05	.77	200	Instrument	75
19	791	G4 Two Pin	14.0	2.50	61	C-6	1.05	.77	200	Instrument	75
TL-2 3/4 Bulb											
20	2604X	G4 Two Pin	5.0	2.00	-	C-6	1.18	-	5,000	Instrument Lens End	76

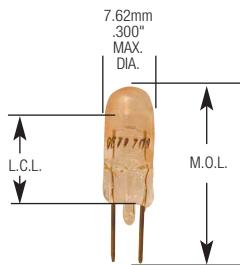


Fig. 71

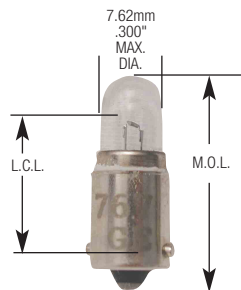


Fig. 72

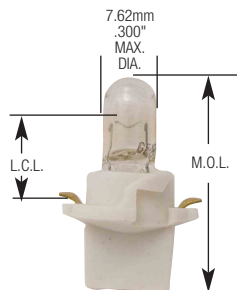


Fig. 73

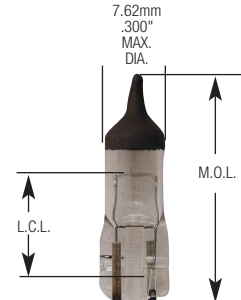


Fig. 74

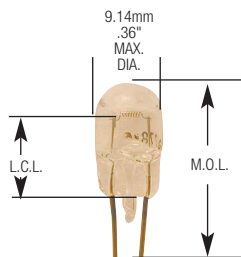


Fig. 75

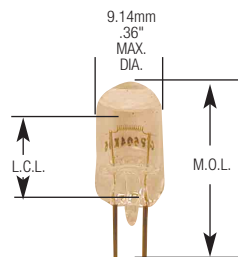


Fig. 76

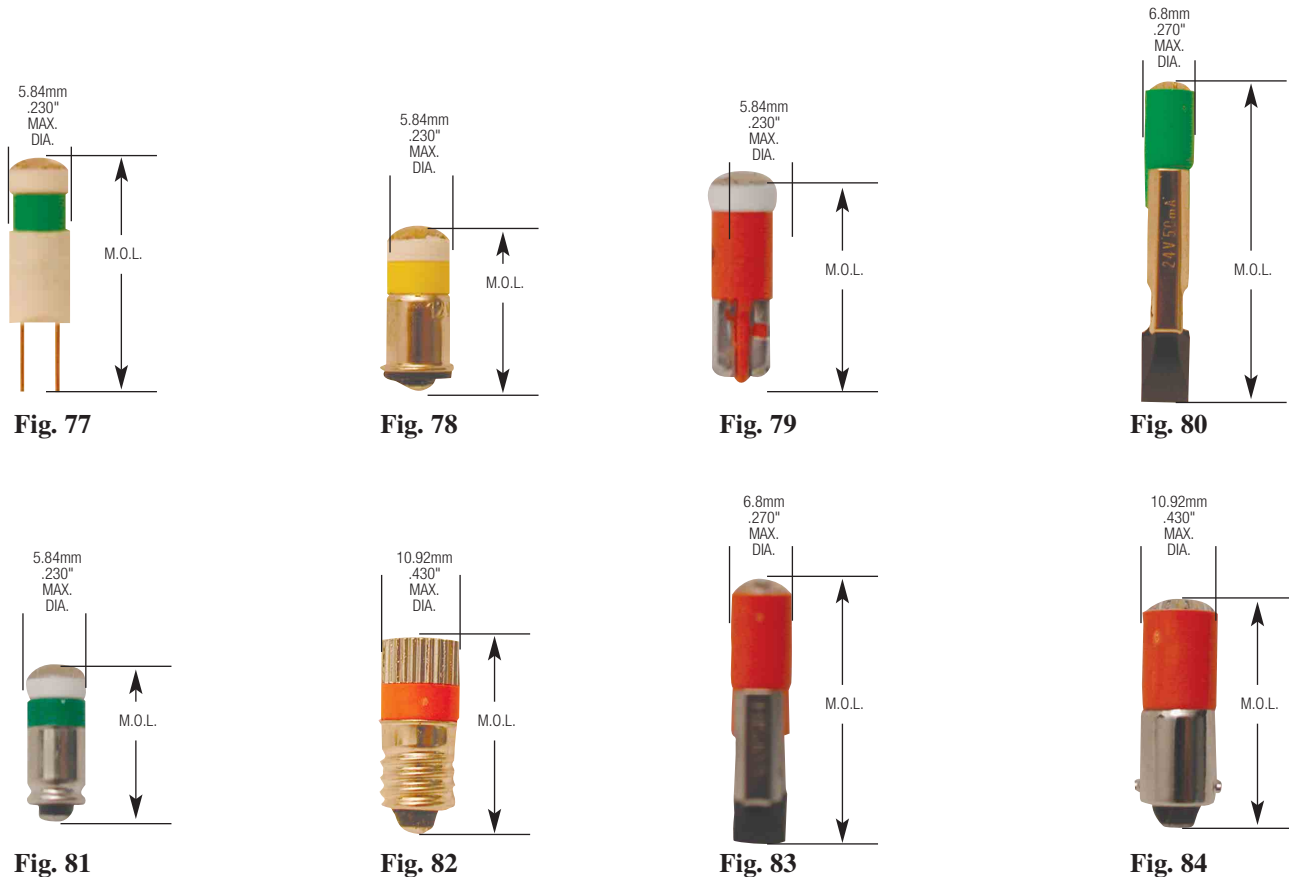
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LED LAMPS

Line No.	Lamp No.	Bulb Type	Base	Des. Volts	Amps or Watts	Colors*	MOL (inch)	LCL (inch)	Ave Life (Hrs)	Fig. No.
1	SR-6V-BP-LED	T1-3/4	Bi-pin	6.0	.05	Red/Green/Yellow	.70	-	100,000+	77
2	SR-6V-SCMF-LED	T1-3/4	S.C. Midget Flanged	6.0	.05	Red/Green/Yellow	.63	-	100,000+	78
3	SR-6V-WB-LED	T1-3/4	Wedge	6.0	.05	Red/Green/Yellow	.70	-	100,000+	79
4	SR-12V-BP-LED	T1-3/4	Bi-pin	12.0	.035	Red/Green/Yellow	.70	-	100,000+	77
5	SR-12V-SCMF-LED	T1-3/4	S.C. Midget Flanged	12.0	.035	Red/Green/Yellow	.63	-	100,000+	78
6	SR-12V-WB-LED	T1-3/4	Wedge	12.0	.035	Red/Green/Yellow	.70	-	100,000+	79
7	SR-24E1R-LED	T2	#1 Slide	24.0	.02	Red/Green/Yellow	1.69	-	100,000+	80
8	SR-28V-BP-LED	T1-3/4	Bi-pin	28.0	.02	Red/Green/Yellow	.70	-	100,000+	77
9	SR-28V-MG-LED	T1-3/4	Midget Grooved	28.0	.02	Red/Green/Yellow	.63	-	100,000+	81
10	SR-28V-MS-LED	T3-1/4	Miniature Screw	28.0	.02	Red/Green/Yellow	1.19	-	100,000+	82
11	SR-28PSB-LED	T2	#5 Slide	28.0	.02	Red/Green/Yellow	1.10	-	100,000+	83
12	SR-28V-SCMF-LED	T1-3/4	S.C. Midget Flanged	28.0	.02	Red/Green/Yellow	.63	-	100,000+	78
13	SR-28V-WB-LED	T1-3/4	Wedge	28.0	.02	Red/Green/Yellow	.70	-	100,000+	79
14	SR-120MB-LED	T3-1/4	Miniature Bayonet	120.0	.01	Red/Green/Yellow	1.04	-	100,000+	84
15	SR-120PSB-LED	T2	# 5 Slide	120.0	.01	Red/Green/Yellow	1.10	-	100,000+	83
16	SR-755-LED	T3-1/4	Miniature Bayonet	6.0	.02	Red/Green/Yellow	1.04	-	100,000+	84
17	SR-756-LED	T3-1/4	Miniature Bayonet	12.0	.02	Red/Green/Yellow	1.04	-	100,000+	84
18	SR-757-LED	T3-1/4	Miniature Bayonet	24-28	.02	Red/Green/Yellow	1.04	-	100,000+	84
19	6S6-120V-LED	S-6	Candelabra Screw	120.0	.02	Red/Green/Yellow	1.04	-	100,000+	-

*WHEN ORDERING LEDS INSERT COLOR REQUIRED INTO PART NUMBER (e.g. SR-755R-LED, SR-28V-BP-G-LED, SR-120PSBY-LED).



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XENON LAMPS

Line No.	Lamp No.	Bulb Type	Base	Des. Volts	Amps or Watts	Bulb Finish	MOL (mm)	LCL (mm)	Ave Life (Hrs)	Fig. No.
1	SR1205X-FT	T3-1/4	Festoon	12.0	5W	Clear	44.0	-	15K	85
2	SR1205X-G4	T3	G4 Bi-pin	12.0	5W	Clear	34.0	-	20K	86
3	SR1205X-RLB	T3-1/4	Rigid Loop	12.0	5W	Clear	43.7	-	20K	87
4	SR1205XF-FT	T3-1/4	Festoon	12.0	5W	Frosted	44.0	-	15K	85
5	SR1205XF-RLB	T3-1/4	Rigid Loop	12.0	5W	Frosted	43.7	-	20K	87
6	SR1210X-FT	T3-1/4	Festoon	12.0	10W	Clear	44.0	-	15K	85
7	SR1210X-G4	T3	G4 Bi-pin	12.0	10W	Clear	34.0	-	20K	86
8	SR1210X-RLB	T3-1/4	Rigid Loop	12.0	10W	Clear	43.7	-	20K	87
9	SR1210XF-FT	T3-1/4	Festoon	12.0	10W	Frosted	44.0	-	15K	85
10	SR1210XF-RLB	T3-1/4	Rigid Loop	12.0	10W	Frosted	43.7	-	20K	87
11	SR1210XH-G4	T3	G4 Bi-pin	12.0	10W	Clear	34.0	-	10K	86
12	SR1210XHF-G4	T3	G4 Bi-pin	12.0	11W	Frosted	34.0	-	10K	86
13	SR1211X-WB	T3-1/4	Wedge	12.0	11W	Clear	27.7	-	5K	88
14	SR1215XH-G4	T3	G4 Bi-pin	12.0	15W	Clear	34.0	-	10K	86
15	SR1220XH-G4	T3	G4 Bi-pin	12.0	20W	Clear	34.0	-	10K	86
16	SR1220XHF-G4	T3	G4 Bi-pin	12.0	20W	Frosted	34.0	-	10K	86
17	SR1250X-1	T3-1/4	Wedge	13.5	5W	Clear	27.7	-	1K	88
18	SR1250X-2	T3-1/4	Wedge	13.5	5W	Clear	27.7	-	2K	88
19	SR1250X-2-WB	T3-1/4	Wedge	12.0	5W	Clear	27.7	-	10K	88
20	SR2405X-FT	T3-1/4	Festoon	24.0	5W	Clear	44.0	-	15K	85
21	SR2405X-G4	T2-1/4	G4 Bi-pin	24.0	5W	Clear	30.0	-	20K	89
22	SR2405X-RLB	T3-1/4	Rigid Loop	24.0	5W	Clear	43.7	-	20K	87
23	SR2405XF-FT	T3-1/4	Festoon	24.0	5W	Frosted	44.0	-	15K	85



Fig. 85

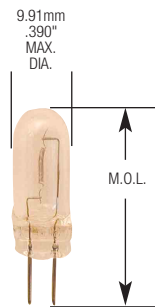


Fig. 86

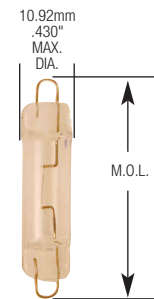


Fig. 87

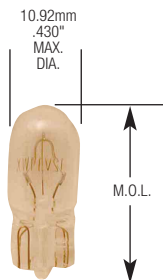


Fig. 88

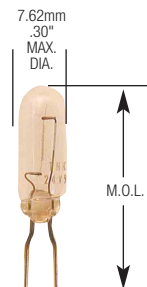


Fig. 89

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XENON LAMPS (Continued)

Line No.	Lamp No.	Bulb Type	Base	Des. Volts	Amps or Watts	Bulb Finish	MOL (mm)	LCL (mm)	Ave Life (Hrs)	Fig. No.
1	SR2405XF-G4	T2-1/4	G4 Bi-pin	24.0	5W	Frosted	30.0	-	20K	89
2	SR2405XF-RLB	T3-1/4	Rigid Loop	24.0	5W	Frosted	43.7	-	20K	87
3	SR2410X-2-WB	T5	Wedge	24.0	10W	Clear	38.8	-	5K	90
4	SR2410X-FT	T3-1/4	Festoon	24.0	10W	Clear	44.0	-	15K	85
5	SR2410X-RLB	T3-1/4	Rigid Loop	24.0	10W	Clear	43.7	-	20K	87
6	SR2410XF-FT	T3-1/4	Festoon	24.0	10W	Frosted	44.0	-	15K	85
7	SR2410XF-RLB	T3-1/4	Rigid Loop	24.0	10W	Frosted	43.7	-	20K	87
8	SR2410XH-G4	T2-1/4	G4 Bi-pin	24.0	10W	Clear	30.0	-	10K	89
9	SR2410XH-F-G4	T2-1/4	G4 Bi-pin	24.0	10W	Frosted	30.0	-	10K	89
10	SR2420XH-G4	T3	G4 Bi-pin	24.0	20W	Clear	34.0	-	10K	86
11	SR2450X	T3-1/4	Wedge	24.0	5W	Clear	27.7	-	500	88
12	SR2472X-2-WB	T5	Wedge	24.0	7.2W	Clear	38.8	-	5K	90
13	SR2475X-WB	T3-1/4	Wedge	24.0	7.5W	Clear	27.7	-	10K	88
14	SR2820XH-G4	T3	G4 Bi-pin	28.0	20W	Clear	34.0	-	10K	86
15	SR2860X-WB	T3-1/4	Wedge	28.0	5W	Clear	27.7	-	10K	88
16	SR7742X-WB	T3-1/4	Wedge	12.0	3W	Clear	27.7	-	15K	88
17	SR921-XENON	T5	Wedge	12.0	18W	Clear	38.8	-	10K	90



Fig. 85

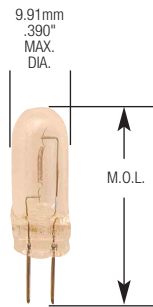


Fig. 86

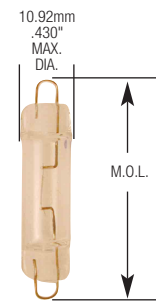


Fig. 87

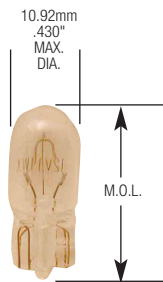


Fig. 88

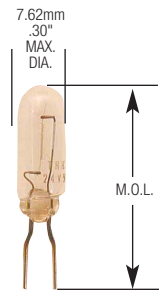


Fig. 89

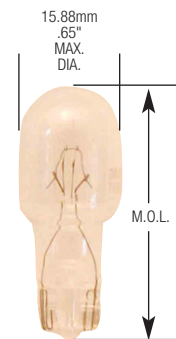


Fig. 90

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SPECIALTY BULBS

Line No.	Lamp No.	Bulb Type	Base	Des. Volts	Watts	MOL (Inch)	Fig. No.
1	3S6/5-120V-I	S-6	Candelabra Screw	120	3	1.88	91
2	3S6/5-130V-I	S-6	Candelabra Screw	130	3	1.88	91
3	3S6/5-140V-I	S-6	Candelabra Screw	140	3	1.88	91
4	3S6/5-145V-I	S-6	Candelabra Screw	145	3	1.88	91
5	3S6/5DC-120V-I	S-6	D.C. Bayonet	120	3	1.81	92
6	3S6/5DC-130V-I	S-6	D.C. Bayonet	130	3	1.81	92
7	6S6-6V-I	S-6	Candelabra Screw	6	6	1.88	91
8	6S6-12V-I	S-6	Candelabra Screw	12	6	1.88	91
9	6S6-18V-I	S-6	Candelabra Screw	18	6	1.88	91
10	6S6-24V-I	S-6	Candelabra Screw	24	6	1.88	91
11	6S6-30V-I	S-6	Candelabra Screw	30	6	1.88	91
12	6S6-32V-I	S-6	Candelabra Screw	32	6	1.88	91
13	6S6-48V-I	S-6	Candelabra Screw	48	6	1.88	91
14	6S6-60V-I	S-6	Candelabra Screw	60	6	1.88	91
15	6S6-75V-I	S-6	Candelabra Screw	75	6	1.88	91
16	6S6-120V-I	S-6	Candelabra Screw	120	6	1.88	91
17	6S6-130V-I	S-6	Candelabra Screw	130	6	1.88	91
18	6S6-135V-I	S-6	Candelabra Screw	135	6	1.88	91
19	6S6-145V-I	S-6	Candelabra Screw	145	6	1.88	91
20	6S6-155V-I	S-6	Candelabra Screw	155	6	1.88	91
21	6S6-230V-I	S-6	Candelabra Screw	230	6	1.88	91
22	6S6-250V-I	S-6	Candelabra Screw	250	6	1.88	91
23	6S6/7-120V-I	S-6	Intermediate Screw	120	6	1.80	93
24	6S6/7-130V-I	S-6	Intermediate Screw	130	6	1.80	93
25	6S6/DC-6V-I	S-6	D.C. Bayonet	6	6	1.81	92
26	6S6/DC-12V-I	S-6	D.C. Bayonet	12	6	1.81	92
27	6S6/DC-24V-I	S-6	D.C. Bayonet	24	6	1.81	92
28	6S6/DC-30V-I	S-6	D.C. Bayonet	30	6	1.81	92
29	6S6/DC-32V-I	S-6	D.C. Bayonet	32	6	1.81	92
30	6S6/DC-48V-I	S-6	D.C. Bayonet	48	6	1.81	92

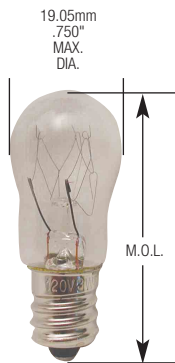


Fig. 91

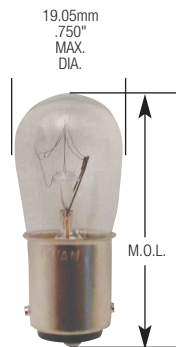


Fig. 92

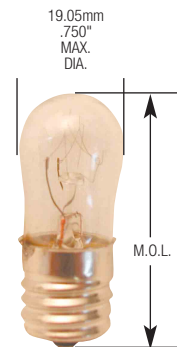


Fig. 93

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SPECIALTY BULBS (Continued)

Line No.	Lamp No.	Bulb Type	Base	Des. Volts	Watts	MOL (Inch)	Fig. No.
1	6S6/DC-60V-I	S-6	D.C. Bayonet	60	6	1.81	92
2	6S6/DC-75V-I	S-6	D.C. Bayonet	75	6	1.81	92
3	6S6/DC-120V-I	S-6	D.C. Bayonet	120	6	1.81	92
4	6S6/DC-130V-I	S-6	D.C. Bayonet	130	6	1.81	92
5	6S6/DC-145V-I	S-6	D.C. Bayonet	145	6	1.81	92
6	6S6/DC-155V-I	S-6	D.C. Bayonet	155	6	1.81	92
7	6S6SC-6V-I	S-6	S.C. Bayonet	6	6	1.88	94
8	6S6SC-12V-I	S-6	S.C. Bayonet	12	6	1.88	94
9	6S6SC-24V-I	S-6	S.C. Bayonet	24	6	1.88	94
10	6S6SC-36V-I	S-6	S.C. Bayonet	36	6	1.88	94
11	6S6SC-40V-I	S-6	S.C. Bayonet	40	6	1.88	94
12	6S6SC-75V-I	S-6	S.C. Bayonet	75	6	1.88	94
13	6S6SC-120V-I	S-6	S.C. Bayonet	120	6	1.88	94
14	6S6SC-130V-I	S-6	S.C. Bayonet	130	6	1.88	94
15	6S6SC-150V-I	S-6	S.C. Bayonet	150	6	1.88	94
16	6S6SC-155V-I	S-6	S.C. Bayonet	155	6	1.88	94
17	10S6-120V-I	S-6	Candelabra Screw	120	10	1.88	91
18	10S6-130V-I	S-6	Candelabra Screw	130	10	1.88	91
19	10S6/10-230V-I	S-6	Candelabra Screw	230	10	1.88	91
20	10S6/10-250V-I	S-6	Candelabra Screw	250	10	1.88	91
21	10S6/10DC-230V-I	S-6	D.C. Bayonet	230	10	1.81	92
22	10S6/10DC-250V-I	S-6	D.C. Bayonet	250	10	1.81	92
23	10S6/13-250V-I	S-6	Intermediate Screw	250	10	1.80	93
24	20S6-130V-I	S-6	Candelabra Screw	130	20	1.88	91
25	4C7-120V-I	C-7	Candelabra Screw	120	4	2.13	95
26	7C7-120V-I	C-7	Candelabra Screw	120	7	2.13	95
27	7C7-130V-I	C-7	Candelabra Screw	130	7	2.13	95
28	7C7DC-120V-I	C-7	D.C. Bayonet	120	7	2.19	96
29	10C7-120V-I	C-7	Candelabra Screw	120	10	2.13	95
30	10C7DC-120V-I	C-7	D.C. Bayonet	120	10	2.19	96

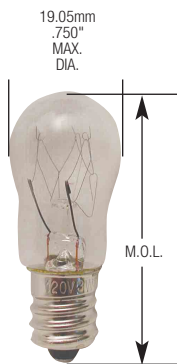


Fig. 91



Fig. 94

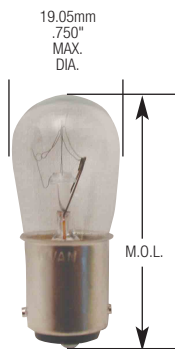


Fig. 92

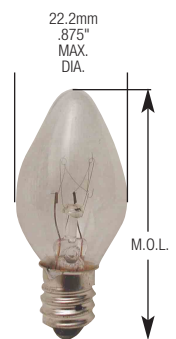


Fig. 95

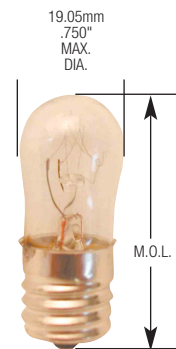


Fig. 93

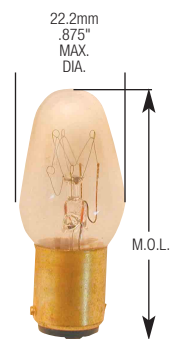


Fig. 96

Some lamp pictures are not to scale. Filament and L.C.L. may vary by part number. For filament identification see page 6.

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SPECIALTY BULBS (Continued)

Line No.	Lamp No.	Bulb Type	Base	Des. Volts	Watts	MOL (Inch)	Fig. No.
1	6T4-1/2/1-120V-I	T4-1/2	Candelabra Screw	120	6		97
2	6T4-1/2/1-130V-I	T4-1/2	Candelabra Screw	120	6		97
3	15T7C-120V-I	T7	Candelabra Screw	120	15	2.63	98
4	15T7DC-120V-I	T7	D.C. Bayonet	120	15		99
5	15T7DC-130V-I	T7	D.C. Bayonet	130	15		99
6	15T4C-130V-I	T4	Candelabra Screw	130	15		100
7	SR-NE120PSB	T2	Slide No. 5	120	.5		101
8	SR120V-MB	T3-1/4	Miniature Bayonet	120	2.6	1.19	102
9	SR12V-8W-MS	G4-1/2	Miniature Screw	12	8		103
10	SR130V-MB	T3-1/4	Miniature Bayonet	130	2.6	1.19	102
11	SR18V-C	T4	Candelabra Screw	18	3	1.50	100
12	SR240V-MB	T3-1/4	Miniature Bayonet	240	3-4	1.19	102
13	SR24V-C	T4	Candelabra Screw	24	2	1.50	100
14	SR24V-MB	T3-1/4	Miniature Bayonet	24	2	1.19	102
15	SR24V-MS	T3-1/4	Miniature Screw	24	2	1.19	104
16	SR30V-C	T4	Candelabra Screw	30	3	1.50	100
17	SR30V-MB	T3-1/4	Miniature Bayonet	30	2	1.19	102
18	SR48V-MS	T3-1/4	Miniature Screw	48	2	1.19	104
19	SR60V-MS	T3-1/4	Miniature Screw	60	2.4	1.19	104

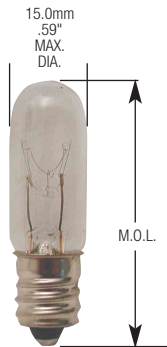


Fig. 97

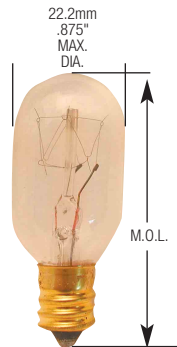


Fig. 98

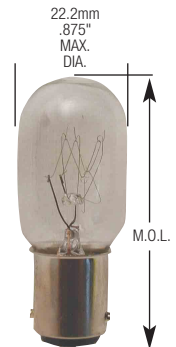


Fig. 99

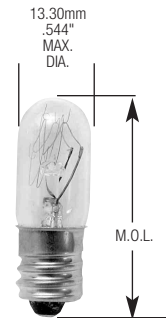


Fig. 100

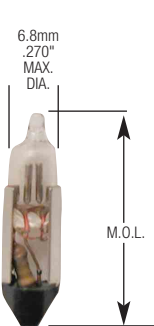


Fig. 101

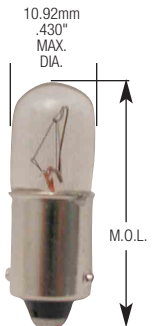


Fig. 102

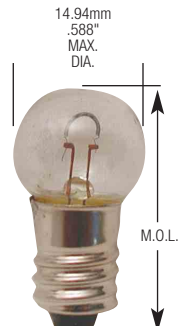


Fig. 103

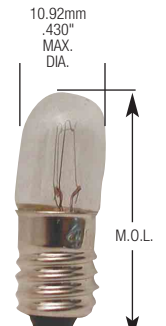


Fig. 104

Some lamp pictures are not to scale. Filament and L.C.L. may vary by part number. For filament identification see page 6.

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SEALED BEAM ILLUSTRATIONS

PAR 36



4425R



4461



4515



H7600

PAR 46



4049



4412A



4579R



4019

PAR 46



H4813



H5006



H7609

PAR 56

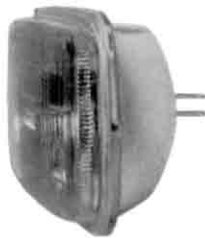


H6024

RECTANGULAR



H4352—55mm x 135mm



H4701—92mm x 150mm



H4656—100mm x 165mm

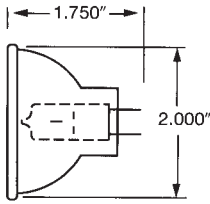


H6054—142mm x 200mm

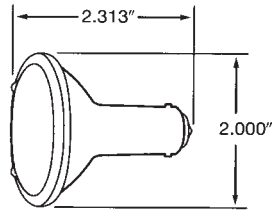
Note: Millimeters are used when measuring rectangular sealed beams.

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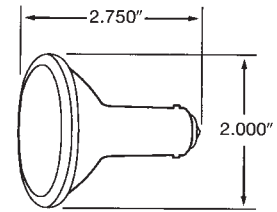
SEALED BEAM ILLUSTRATIONS



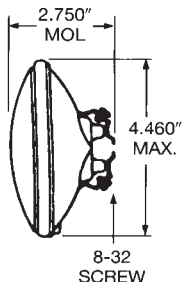
PAR 16
2 Pin, Halogen



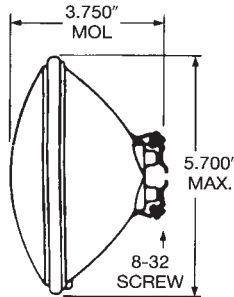
PAR 16
Bayonet



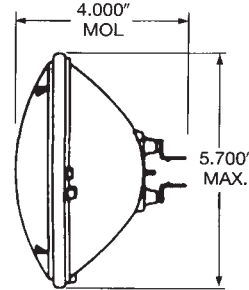
PAR 16
Bayonet Extended Sleeve



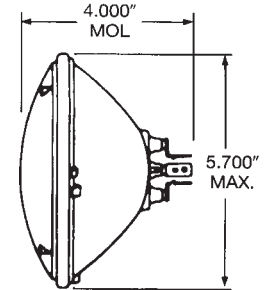
8-32
SCREW
PAR 36
Screw Terminals



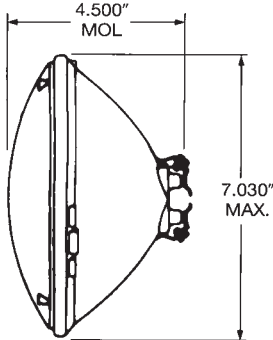
PAR 46
Screw Terminals or Multi-Purpose



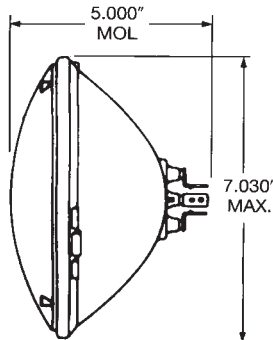
PAR 46
2 Contact Lugs



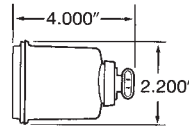
PAR 46
3 Contact Lugs



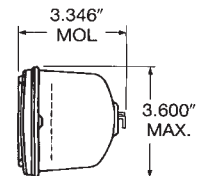
PAR 56
Screw Terminals



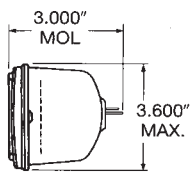
PAR 56
3 Contact Lugs



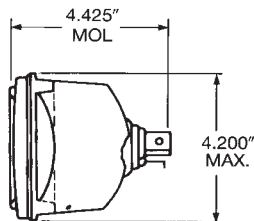
Rectangular
(55mm x 135 mm)



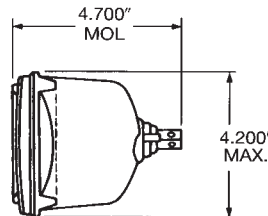
Rectangular (92mm x 150mm)
2 Right Angle Lugs



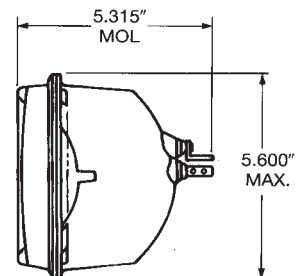
Rectangular (92mm x 150mm)
2 Lugs



Rectangular (100mm x 165mm)
3 Contact Lugs



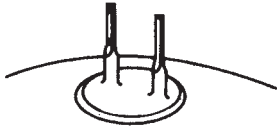
Rectangular (100mm x 165mm)
2 Contact Lugs



Rectangular (142mm x 200mm)
3 Contact Lugs

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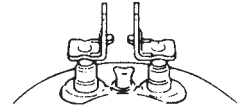
SEALED BEAM BASE TYPES



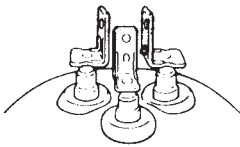
2 Lugs



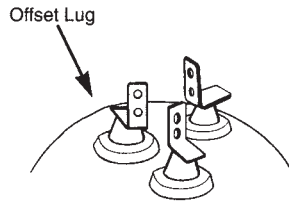
2 Lugs
Right Angle



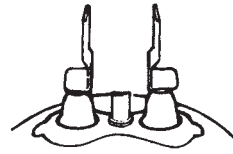
2 Contact Lugs



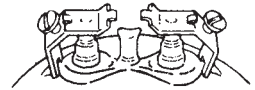
3 Contact Lugs



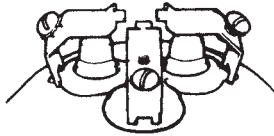
3 Contact Lugs
(1 offset Lug)



2 Mogul
End Prongs



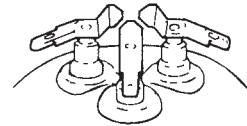
2 Screw
Terminals



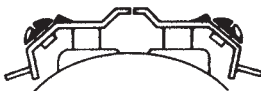
3 Screw
Terminals



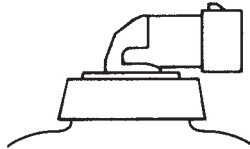
2 Slip-On
Terminals



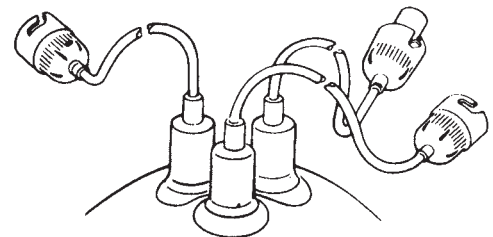
3 Slip-On
Terminals



Multi-Purpose



Right Angle Plastic



Waterproof

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Sealed Beam Lamp Specifications

Lamp No.	Primary Application	Design Volts	Design Watts or Amps	Approx. Initial Maximum Beam C.P.	Approx. Total Spread to 10% Max. C.P. (Degrees)		Rated Average Lab Life (Hours)	Base	Filament Designation	Max. Overall Length		
					Horiz.	Vert.				mm	in.	
RECTANGULAR 142mm x 200mm (5.6 in x 7.9 in)												
H6054	Halogen Auto Headlamp, Type 2B1 ⁽¹¹⁸⁾ ⁽¹⁵¹⁾	HI	12.8	65W	SAE Specifications		150 ⁽⁴⁾	3 Contact Lugs	C-6	138	5 7/16	
		LO	12.8	35W			320 ⁽⁴⁾					
H6054H0*	Performance Series Type 2B1 Headlamp ⁽¹¹⁸⁾ ⁽¹⁵¹⁾	HI	12.8	65W	SAE Specifications		150 ⁽⁴⁾	3 Contact Lugs	C-8	138	5 7/16	
		LO	12.8	55W			700 ⁽⁴⁾					
HP6054	Halogen Auto Headlamp, Type 2B1 ⁽¹¹⁸⁾ ⁽¹⁵¹⁾ ⁽¹⁶³⁾	HI	12.8	65W	SAE Specifications		150 ⁽⁴⁾	3 Contact Lugs	C-6	138	5 7/16	
		LO	12.8	35W			320 ⁽⁴⁾					
H5054	Halogen Truck Headlamp, Type 2B1 ⁽¹¹⁸⁾ ⁽¹⁵¹⁾	HI	12.8	65W	SAE Specifications		400 ⁽⁴⁾	3 Contact Lugs	C-6	138	5 7/16	
		LO	12.8	42W			2000 ⁽⁴⁾					
6052	Auto Headlamp, Type 2B1 ⁽²⁶⁾	HI	12.8	65W	SAE Specifications		150 ⁽⁴⁾	3 Contact Lugs	C-6	138	5 7/16	
		LO	12.8	55W			320 ⁽⁴⁾					
6053	Truck Headlamp, Type 2B1 ⁽²⁶⁾	HI	12.8	65W	SAE Specifications		150 ⁽⁴⁾	3 Contact Lugs	C-6	138	5 7/16	
		LO	12.8	55W			640 ⁽⁴⁾					
PAR36 BULB 114mm (4 1/2 in) DIAMETER												
4546	Hand Lantern		4.7	.5A	6300	3	3	100	Screw Terminals	C-2R	70	2 3/4
4546-1	Hand Lantern		4.7	.5A	6300	3	3	100	Slip-on Terminals	C-2R	70	2 3/4
4547	Hand Lantern		4.75	1.25A	20,000	3	3	100	Screw Terminals	C-2R	70	2 3/4
H7556	Halogen Emergency Bldg. Lighting ⁽¹¹⁸⁾		6.0	6W	400	30	20	50	Screw Terminals	C-6	70	2 3/4
7672-1	Emergency Bldg. Lighting		6.0	7.2W	350	30	20	50	Slip-on Terminals	C-6	70	2 3/4
7613	Emergency Bldg. Lighting		6.0	8W	400	30	20	50	Screw Terminals	C-6	70	2 3/4
7613-1	Emergency Bldg. Lighting		6.0	8W	400	30	20	50	Slip-on Terminals	C-6	70	2 3/4
H7550	Halogen Hand Lantern ⁽¹¹⁸⁾		6.0	8W	25,000	3	3	50	Screw Terminals	C-6	70	2 3/4
H7550-1	Halogen Hand Lantern ⁽¹¹⁸⁾		6.0	8W	25,000	3	3	50	Slip-on Terminals	C-6	70	2 3/4
H7551	Halogen Emergency Bldg. Lighting ⁽¹¹⁸⁾		6.0	8W	550	30	20	50	Screw Terminals	C-6	70	2 3/4
H7552	Halogen Emergency Bldg. Lighting ⁽¹¹⁸⁾		6.0	10W	650	30	20	50	Screw Terminals	C-6	70	2 3/4
H7553	Halogen Emergency Bldg. Lighting ⁽¹¹⁸⁾		6.0	12W	850	30	20	50	Screw Terminals	C-6	70	2 3/4
H7554	Halogen Emergency Bldg. Lighting ⁽¹¹⁸⁾		6.0	20W	1,400	30	20	50	Screw Terminals	C-6	70	2 3/4
4614	Aircraft Navigation ⁽⁸²⁾		6.0	100W	85,000	11	6	300	Screw Terminals	C-6	70	2 3/4
4511	Tractor		6.2	30W	2,300	Trapezoidal		300 ⁽²³⁾	Screw Terminals	C-6	70	2 3/4
4516	Spotlamp		6.2	30W	45,000	9	4	300	Screw Terminals	C-6	70	2 3/4
4042	Emergency Bldg. Lighting		6.4	12W	1,100	45	20	150	Screw Terminals	C-6	70	2 3/4
4014	Emergency Bldg. Lighting		6.4	18W	1,500	50	25	200	Screw Terminals	C-6	70	2 3/4
4308	Headlamp, Horse-Drawn Vehicles		6.4	25W	24,000	-	-	300		C-6		
			6.4	12W	3,000	-	-	150	3 Screw Terminals	C-6	70	2 3/4
4510	Tractor Flood, Emergency Bldg. Lighting		6.4	25W	800	80	20	300	Screw Terminals	C-6	70	2 3/4
4515	Spotlamp ⁽⁸²⁾		6.4	30W	55,000	5	5	100	Screw Terminals	C-6	70	2 3/4
H4515	Spotlamp, Shielded Bulb ⁽¹¹⁸⁾		6.4	30W	67,000	5 1/2	4	100	Screw Terminals	C-6	70	2 3/4
H7555	Halogen Emergency Bldg. Lighting ⁽¹¹⁸⁾		12.0	8W	550	30	20	50	Screw Terminals	C-6	70	2 3/4
4044	Emergency Bldg. Lighting		12.0	12W	1,100	50	25	150	Screw Terminals	C-6	70	2 3/4
4044-1	Emergency Bldg. Lighting		12.0	12W	1,100	50	25	150	Slip-on Terminals	C-6	70	2 3/4
H7557	Emergency Bldg. Lighting Halogen-Cycle ⁽¹¹⁸⁾		12.0	12W	850	30	20	50	Screw Terminals	C-6	70	2 3/4
4414	Warning Signal, Emergency Bldg. Lighting, Garden and Security Lighting		12.8	18W	1,500	50	25	300	Screw Terminals	C-6	70	2 3/4
4414-1	Signal		12.8	18W	1,500	50	25	300	Slip-on Terminals	C-6	70	2 3/4
4414A	Turn Signal, Warning Signal Yellow Lens		12.8	18W	450	50	25	300	Screw Terminals	C-6	70	2 3/4
4414R	Turn Signal, Warning Signal Red Lens		12.8	18W	275	50	25	300	Screw Terminals	C-6	70	2 3/4
7414Y	Signal, Light Yellow Lens		12.8	18W	1,000	50	25	300	Screw Terminals	C-6	70	2 3/4
4446	Emergency Bldg. Lighting		12.8	25W	400	80	80	300	Screw Terminals	C-6	70	2 3/4
4405	Spotlight ⁽⁸²⁾		12.8	30W	50,000	6	5	100	Screw Terminals	C-6	70	2 3/4
H4405	Spotlamp, Shielded Bulb ⁽¹¹⁸⁾		12.8	30W	66,000	7	4	100	Screw Terminals	C-6	70	2 3/4
4416	Spotlamp, Signal		12.8	30W	35,000	11	4	300	Screw Terminals	C-6	70	2 3/4
4416-1	Spotlamp, Signal		12.8	30W	35,000	11	4	300	Slip-on Terminals	C-6	70	2 3/4
4416A	Signal, Light Yellow Lens Cover		12.8	30W	26,000	11	4	300	Screw Terminals	C-6	70	2 3/4
4416R	Signal, Red Lens Cover		12.8	30W	4,000	11	4	300	Screw Terminals	C-6	70	2 3/4
4406	Tractor, Flood ⁽¹³⁴⁾		12.8	35W	600	80	30	300 ⁽⁴⁾	Screw Terminals	C-6	70	2 3/4
4406-1	Tractor, Flood ⁽¹³⁴⁾		12.8	35W	600	80	30	300 ⁽⁴⁾	Slip-on Terminals	C-6	70	2 3/4
4409X	Farm Tractor ⁽¹³⁷⁾		12.8	35W	600	80	30	300 ⁽⁴⁾	Screw Terminals	C-6	70	2 3/4
4410	Backup Lamp, Tractor Flood		12.8	35W	600	80	30	300 ⁽⁴⁾	Screw Terminals	C-6	70	2 3/4
4411	Tractor		12.8	35W	3,000	Trapezoidal		300 ⁽⁴⁾	Screw Terminals	C-6	70	2 3/4
4411-1	Tractor		12.8	35W	3,000	Trapezoidal		300 ⁽⁴⁾	Slip-on Terminals	C-6	70	2 3/4

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Sealed Beam Lamp Specifications

Lamp No.	Primary Application	Design Volts	Design Watts or Amps	Approx. Initial Maximum Beam C.P.	Approx. Total Spread to 10% Max. C.P. (Degrees)		Rated Average Lab Life (Hours)	Base	Filament Designation	Max. Overall Length	
					Horiz.	Vert.				mm	in.
PAR36 BULB 114mm (4½ in) DIAMETER (continued)											
4415	Fog ⁽¹⁸¹⁾	12.8	35W	9,000	40	5	300	Screw Terminals	C-6	70	2¾
4415A	Fog, Yellow Lens ⁽⁸¹⁾	12.8	35W	7,000	40	5	300	Screw Terminals	C-6	70	2¾
4422	Tractor	12.8	35W	600	75° Cone		300 ⁽⁴⁾	Screw Terminals	C-6	70	2¾
7400	Signal, Rotating Beacon	12.8	35W	33,000	12	5	300	Slip-on Terminals	C-6	70	2¾
7400-1	Signal, Rotating Beacon	12.8	35W	33,000	12	5	300	Screw Terminals	C-6	70	2¾
7400R	Signal, Rotating Beacon, Red Lens ⁽¹⁰⁸⁾	12.8	35W	4,900	12	5	300	Slip-on Terminals	C-6	70	2¾
H7600	Halogen Singal, Rotating Beacon ⁽¹¹⁸⁾	12.8	37.5W	60,000	9	4½	300	Screw Terminals	C-6	70	2¾
H7616	Halogen Spotlamp ⁽¹¹⁸⁾	12.8	37.5W	70,000	7	4	300	Screw Terminals	C-6	70	2¾
4440X	Tractor	12.8	40W	6,000	40	7	320 ⁽⁴⁾		C-6		
		12.8	40W	4,500	33	9	320 ⁽⁴⁾	3 Contact Lugs	C-6	76	3
4440X-1	Tractor	12.8	40W	6,000	40	7	320 ⁽⁴⁾		C-6		
		12.8	40W	4,500	33	9	320 ⁽⁴⁾	3 Slip-on Terminals	C-6	70	2¾
4460X	Tractor	12.8	40W	6,500	22	10	320 ⁽⁴⁾		C-6		
		12.8	40W	5,000	22	13	320 ⁽⁴⁾	3 Screw Terminals	C-6	70	2¾
H4460X	Tractor ⁽¹¹⁸⁾	12.8	40W	11,000	22	10	320 ⁽⁴⁾	3 Screw Terminals	C-6	70	2¾
		12.8	40W	8,500	22	13	320 ⁽⁴⁾	3 Screw Terminals	C-6	70	2¾
H7604	Halogen Spotlamp ⁽¹¹⁸⁾	12.8	50W	100,000	7	5	100	Screw Terminals	C-6	70	2¾
H7606	Tractor, Flood										
	Halogen - Cycle ⁽¹¹⁸⁾	12.8	50W	1,000	80	30	400 ⁽⁴⁾	Screw Terminals	C-6	70	2¾
H7610	Halogen Tractor ⁽¹¹⁸⁾	12.8	50W	5,200	Trapezoidal		400 ⁽⁴⁾	Screw Terminals	C-6	70	2¾
H7614	Halogen Flood ⁽¹¹⁸⁾	12.8	50W	2,000	70	30	100	Screw Terminals	C-6	70	2¾
4461	Tractor	12.8	60W	6,000	Trapezoidal		300 ⁽⁴⁾	Screw Terminals	C-6	70	2¾
4466	Tractor ⁽¹³⁴⁾	12.8	60W	1,000	80	30	300 ⁽⁴⁾	Screw Terminals	C-6	70	2¾
H7607	Tractor Floor ⁽¹¹⁸⁾	12.8	65W	1,500	Non-Symmetrical		600 ⁽⁴⁾	Screw Terminals	C-6	70	2¾
4509	Aircraft Landing Spotlamp ⁽⁹⁸⁾	13.0	100W	110,000	12	6	25	Screw Terminals	C-6	70	2¾
4509X	Marine Spotlamp ⁽⁸²⁾	13.0	100W	110,000	12	6	25	Screw Terminals	C-6	70	2¾
4509Y	Special Service	13.0	100W	-	12	6	25	Screw Terminals	C-6	70	2¾
4519	Marine	13.0	100W	30,000	40	7	25	Screw Terminals	C-6	70	2¾
4595	Aircraft Navigation	13.0	100W	60,000	14	6	300	Screw Terminals	C-6	70	2¾
4700	Spot/Flood	13.0	100W	100,000	12	7	25				
		13.0	100W	50,000	17	18	25	3 Screw Terminals	C-6	70	2¾
Q4509	Aircraft Landing ⁽⁹⁸⁾	13.0	100W	140,000	7	7	100	Screw Terminals	C-8	70	2¾
4313	Aircraft Landing	13.0	250W	140,000	16	7	25	Screw Terminals	C-6	70	2¾
Q4631	Halogen Quartzline Aircraft Landing, Wing Inspection ⁽⁴⁾ ⁽¹¹⁸⁾	13.0	250W	80,000	13	12	500	Screw Terminals	C-6	70	2¾
Q4632	Halogen Quartzline Aircraft Logo ⁽¹⁴⁾ ⁽⁹⁸⁾ ⁽¹¹⁸⁾	13.0	250W	75,000	14	12	500	Screw Terminals	C-6	70	2¾
4402A	CIM Signal	28.0	50W	1,000	50	25	400	Screw Terminals	C-6	70	2¾
4502	Auto Headlamp, Military	28.0	50W	10,000	40	7	400	Screw Terminals	C-6	70	2¾
4505	Aircraft Navigation	28.0	50W	45,000	11	5	400	Screw Terminals	CC-6	70	2¾
4589	Aircraft Cockpit Flood, CIM Flood	28.0	50W	5,000	Trapezoidal		400	Screw Terminals	CC-6	70	2¾
4589-1	Aircraft Cockpit Flood, CIM Flood	28.0	50W	5,000	Trapezoidal		400	Slip-on Terminals	CC-6	70	2¾
4593	Aircraft In-Air Refueling	28.0	50W	1,500	80	30	400	Screw Terminals	CC-6	70	2¾
4825R	CIM Stop/Tail	28.0	50W	200			200	3 Screw Terminals	C-2V		
	Red Lens ⁽⁹⁸⁾ ⁽¹⁰⁸⁾	28.0	18W	40	-	-	200	3 Screw Terminals	C-2V	70	2¾
4752	CIM Flood	28.0	60W	2,000	50	25	800	Screw Terminals	2C-6	70	2¾
4591	Aircraft Landing	28.0	100W	90,000	12	6	25	Screw Terminals	CC-6	70	2¾
4594	Aircraft Navigation	28.0	100W	70,000	13	7	300	Screw Terminals	CC-6	70	2¾
4627	Aircraft Flood	28.0	100W	3,000	80	30	300	Screw Terminals	CC-6	70	2¾
4811	Auto Headlamp, Military	28.0	110W				400		CC-6		
		28.0	55W	Military/SAE Specifications			400	3 Contact Lugs	CC-6	76	3
4626	Aircraft Taxiing	28.0	150W	2,500	40	9	300	Screw Terminals	CC-6	70	2¾
4713	Aircraft Logo	28.0	150W	4,200	50	65	300	Screw Terminals	2C-6	70	2¾
4587	Aircraft Taxiing ⁽¹⁴⁾	28.0	250W	40,000	40	13	25	Screw Terminals	CC-8	70	2¾
4596	Aircraft Landing ⁽¹⁴⁾	28.0	250W	150,000	11	12	25	Screw Terminals	CC-8	70	2¾
4350	Electric Truck Work Light ⁽¹⁵⁾	36.0	60W	2,100	Trapezoidal		400	Slip-on Terminals	C-2V	70	2¾
4340	Electric Truck Work Light ⁽¹⁵⁾	48.0	80W	2,500	Trapezoidal		400	Slip-on Terminals	C-2V	70	2¾
PAR46 BULB 146mm (5¾ in) DIAMETER											
4019	Tractor	6.2	30W	1,200	Trapezoidal		300 ⁽²³⁾	Screw Terminals	C-6	95	3¾

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Sealed Beam Lamp Specifications

Lamp No.	Primary Application	Design Volts	Design Watts or Amps	Approx. Initial Maximum Beam C.P.	Approx. Total Spread to 10% Max. C.P. (Degrees)		Rated Average Lab Life (Hours)	Base	Filament Designation	Max. Overall Length		
					Horiz.	Vert.				mm	in.	
PAR46 BULB 146mm (5 7/8 in) DIAMETER (continued)												
4013	Tractor, Flood	6.4	25W	800	80	20	300	Screw Terminals	C-6	95	3 3/4	
4535	Spotlamp ⁽⁸²⁾	6.4	30W	95,000	5 1/2	4	100	Screw Terminals	C-6	95	3 3/4	
4531	Auto Headlamp, Military	12.5	40W	30,000	20	5	400	Screw Terminals	C-6	95	3 3/4	
4435	Spotlamp ⁽⁸²⁾	12.8	30W	75,000	5	5	100	Screw Terminals	C-6	95	3 3/4	
4420	Cycle Headlamp ⁽¹⁴⁶⁾	12.8	30W				300		C-6			
		12.8	30W	SAE Specifications			300	3 Contact Lugs	C-6	102	4	
4412	Fog ⁽⁸¹⁾	12.8	35W	11,000	40	7	300	Screw Terminal	C-6	95	3 3/4	
4412A	Fog, Yellow	12.8	35W	8,800	40	7	300	Screw Terminal	C-6	95	3 3/4	
4413	Tractor, Flood ⁽¹³⁴⁾	12.8	35W	1,100	80	20	300 ⁽⁴⁾	Screw Terminal	C-6	95	3 3/4	
4419	Tractor ⁽⁹⁴⁾	12.8	35W	1,600	Trapezoidal		300 ⁽⁴⁾	Screw Terminal	C-6	95	3 3/4	
4436	Signal	12.8	35W	60,000	10	4	300	Screw Terminal	C-6	95	3 3/4	
4436-3	Signal	12.8	35W	60,000	10	4	300	Combination	C-6	95	3 3/4	
H5006	Halogen											
	Auto Headlamp,	HI	12.8	35W			200 ⁽⁴⁾		C-6			
	Low Beam Ype 2C1 ⁽¹¹⁸⁾	LO	12.8	35W	SAE Specification		320 ⁽⁴⁾	3 Contact Lugs	C-6	102	4	
4000	Auto Headlamp,	HI	12.8	37.5W			200 ⁽⁴⁾		C-6			
	Low Beam Ype 2C1 ⁽²⁶⁾	LO	12.8	60W	SAE Specification		320 ⁽⁴⁾	3 Contact Lugs	C-6	102	4	
4040	Truck Headlamp,											
	Low Beam Heavy Duty,	HI	12.8	37.5W			300 ⁽⁴⁾		C-6			
	Type 2C1 ⁽²⁶⁾ ⁽¹⁴⁶⁾	LO	12.8	60W	SAE Specification		500 ⁽⁴⁾	3 Contact Lugs	C-6	102	4	
4001	Auto Headlamp, High Beam											
	Type 1C1		12.8	37.5W	SAE Specification		300 ⁽⁴⁾	2 Contact Lugs	C-6	102	4	
87612	Halogen Fog ⁽¹¹⁸⁾		12.8	37.5W	15,000	40	7	450	Screw Terminals	C-6	95	3 3/4
4434A	School Bus Signal,											
	Amber Lens		12.8	40W	1,000	55	25	100	Screw Terminals	C-6	95	
4459	Tractor ⁽⁹⁴⁾		12.8	40W	1,400			320 ⁽⁴⁾	C-6			
			12.8	40W	1,300	Trapezoidal		320 ⁽⁴⁾	3 Slip-on Terminals	C-6	84	3 3/8
H5001	Halogen Auto Headlamp											
	High Beam, Type 1C1 ⁽¹¹⁸⁾		12.8	50W	SAE Specification		200 ⁽⁴⁾	2 Contact Lugs	C-6	102	4	
H7609	Halogen Tractor Flood ⁽¹¹⁸⁾		12.8	50W	2,200	80	20	400 ⁽⁴⁾	Screw Terminals	C-6	95	3 3/4
H7619	Halogen Tractor ⁽⁹⁴⁾ ⁽¹¹⁸⁾		12.8	50W	6,000	Trapezoidal		400 ⁽⁴⁾	Screw Terminals	C-6	95	3 3/4
H7621-1	Halogen Auto/Truck											
	Special Service ⁽¹⁰⁹⁾ ⁽¹¹⁸⁾		12.8	50W	20,000	50	7	200 ⁽⁴⁾	Slip-on Terminals	C-6	95	3 3/4
H7635	Halogen Spotlamp ⁽¹¹⁸⁾		12.8	50W	160,000	6 1/2	4	100	Screw Terminals	C-6	95	3 3/4
H7635X	Halogen Spotlamp ⁽⁸²⁾ ⁽¹¹⁸⁾		12.8	50W	160,000	6 1/2	4	100	Screw Terminals	C-6	95	3 3/4
4467	Cycle Headlamp ⁽¹⁴⁶⁾		12.8	50W				320 ⁽⁴⁾	C-6			
			12.8	35W	SAE Specification		275 ⁽⁴⁾	3 Contact Lugs	C-6	102	4	
4478	C.I.M. Flood		13.0	60W	1,600	56	32	800 ⁽⁴⁾	2 Contact Lugs	2C-6	102	4
H7680HIR*	Halogen Infrared Spotlamp ⁽¹¹⁸⁾		13.0	80W	275,000	6 1/2	6 1/2	100	Screw Terminals	C-8	95	3 3/4
4421	Auto/Truck, Special Service ⁽⁸²⁾ ⁽¹⁰⁹⁾		13.0	100W	23,000	50	7	300	Slip-on Terminals	C-6	95	3 3/4
4537	Aircraft Landing ⁽²⁰⁾ ⁽⁸³⁾ ⁽⁹⁸⁾		13.0	100W	200,000	11	6	25	Screw Terminals	C-6	80	3 1/2
4537-2	Spotlamp ⁽²⁰⁾ ⁽⁹⁸⁾		13.0	100W	200,000	11	6	25	Screw Terminals	C-6	80	3 1/2
4537X	Marine Spotlamp ⁽²⁰⁾ ⁽⁸²⁾		13.0	100W	200,000	11	6	25	Screw Terminals	C-6	80	3 1/2
4537Y-2	Special Service		13.0	100W	-	11	6	25	Slip-on Terminals	C-6	80	3 1/2
4522	Aircraft Landing ⁽⁸³⁾		13.0	250W	290,000	12	10	25 ⁽¹³⁸⁾	Screw Terminals	C-2 ⁽⁹²⁾	80	3 1/2
4636-3	Signal		14.0	80W	90,000	9	7 1/2	200	Combination	2C-6	95	3 3/4
4635	Aircraft Landing ⁽¹⁴⁾		16.5	450W	325,000	14	15	25	Screw Terminals	C-8	95	3 3/4
4530	Signal, Flashing ⁽⁸⁶⁾		26.0	5.3A	100,000	11	11	50	Screw Terminals	4CC-8	95	3 3/4
4578	CIM Flood		28.0	60W	1,600	55	30	800	2 Contact Lugs	2C-6	102	4
4880	CIM Headlamp		28.0	60W	6,000	-	-	800	2 Contact Lugs	2C-6	102	4
4579	CIM Headlamp		28.0	80W	24,000	25	25	400		CC-6		
			28.0	60W	11,000	7	7	400	3 Contact Lugs	CC-6	102	4
4570	Aircraft Taxiing		28.0	150W	32,000	50	9	300	Screw Terminals	CC-6	95	3 3/4
4570X	Tractor		28.0	150W	32,000	50	9	300	Screw Terminals ⁽¹⁹⁸⁾	CC-6	95	3 3/4
4571	Flood, Special Service		28.0	150W	7,000	80	25	300	Screw Terminals	CC-6	95	3 3/4
4572	Auto Flood, Military		28.0	150W	4,500	55	55	300	Screw Terminals	CC-6	95	3 3/4
4551	Aircraft Taxiing		28.0	250W	75,000	50	10	25 ⁽¹³⁸⁾	Screw Terminals	CC-6	95	3 3/4
4553	Aircraft Landing ⁽⁸³⁾		28.0	250W	300,000	11	12	25 ⁽¹³⁸⁾	Screw Terminals	CC-8	80	3 3/4
4532	Aircraft		28.0	250W	75,000	12	19	100	Screw Terminals	CC8	95	3 3/4
			28.0	150W	14,500	16	19	100		C2V		

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Sealed Beam Lamp Specifications

Lamp No.	Primary Application	Design Volts	Design Watts or Amps	Approx. Initial Maximum Beam C.P.	Approx. Total Spread to 10% Max. C.P. (Degrees)		Rated Average Lab Life (Hours)	Base	Filament Designation	Max. Overall Length	
					Horiz.	Vert.				mm	in.
PAR46 BULB 146mm (5 7/8 in) DIAMETER (continued)											
4554	Aircraft Taxiing ⁽¹⁴⁾	28.0	450W	90,000	50	16	25	Screw Terminals	CC-8	80	3 1/8
Q4554	Halogen Quartzline Aircraft Taxiing ^{(14) (118)}	28.0	450W	65,000	50	11	100	Screw Terminals	CC-6	67	2 7/8
Q4566	Halogen Quartzline Aircraft ^{(14) (118)}	28.0	450W	150,000	16	12	1,000	Screw Terminals	CC-6	84	3 3/8
4580	Aircraft Landing ^{(14) (118)}	28.0	450W	400,000	13	14	10	Screw Terminals	CC-8	95	3 3/8
4581	Aircraft Landing ^{(14) (20)}	28.0	450W	400,000	13	14	10	Screw Terminals	CC-8	80	3 3/8
4582	Aircraft/Helicopter Flood ⁽¹⁴⁾	28.0	450W	20,000	50	55	10	Screw Terminals	CC-8	95	3 3/8
Q4597	Halogen Quartzline Aircraft Flood ^{(14) (118)}	28.0	450W	16,000	60	35	1,000	Screw Terminals	CC-6	84	3 3/8
Q4681	Halogen Quartzline Aircraft Landing ^{(14) (118)}	28.0	450W	310,000	15	9	50	Screw Terminals	CC-6	67	2 7/8
PAR56 BULB 178mm (7 in) DIAMETER											
6006	Auto Headlamp ⁽²⁶⁾	HI 6.1 LO 6.2	50W 40W	SAE Specifications			300 500	3 Contact Lugs	C-6	127	5
4545	Marine Searchlight ⁽⁸²⁾	12.0	100W	225,000	9	5	100	Screw Terminals	C-6	114	4 1/2
4543	Marine Spotlamp	12.5	100W	250,000	9	5	50	Screw Terminals	C-6	114	4 1/2
6014	Auto Headlamp, Type 2D1 ⁽²⁶⁾	HI 12.8 LO 12.8	60W 50W	SAE Specifications			200 ⁽⁴⁾ 320 ⁽⁴⁾	3 Contact Lugs	C-6	127	5
H6024	Halogen Auto Headlamp, Type 2D1 ⁽¹¹⁸⁾	HI 12.8 LO 12.8	65W 35W	SAE Specifications			150 ⁽⁴⁾ 320 ⁽⁴⁾	3 Contact Lugs	C-6	127	5
H5024	Halogen Auto Headlamp, Type 2D1 ⁽¹¹⁸⁾	HI 12.8 LO 12.8	65W 42W	SAE Specifications			400 ⁽⁴⁾ 2000 ⁽⁴⁾	3 Contact Lugs	C-6	127	5
6015	Auto/Truck Headlamp, Heavy Duty, Type 2D1 ^{(26) (146)}	HI 12.8 LO 12.8	50W 50W	SAE Specifications			300 ⁽⁴⁾ 500 ⁽⁴⁾	3 Contact Lugs	C-6	127	5
6045	Signal	26.0	170W	230,000	9	8	100	Screw Terminals	CC-6	114	4 1/2
4800	Auto Headlamp, Military	28.0	50W	Military/SAE Specifications			400	3 Contact Lugs	CC-6	127	5
4860	Auto Headlamp, Military	28.0	80W	Military/SAE Specifications			400	3 Contact Lugs	CC-6	127	5
4541	Aircraft Landing ^{(34) (83)}	28.0	60W 450W	Military/SAE Specifications 470,000	15	11	400 25	Waterproof Terminals Screw Terminals	CC-6 C-13	127 114	5 4 1/2
PAR64 BULB 203mm (8 in) DIAMETER											
4552	Aircraft Landing ⁽⁸³⁾	28.0	250W	500,000	7	8	25 ⁽¹³⁸⁾	Screw Terminals	CC-8	95	3 3/8
4556	Aircraft Landing ^{(14) (20)}	28.0	1000W	700,000			25	Screw Terminals	CC-6	95	3 3/8
4559	Aircraft Landing ⁽⁸³⁾	28.0	600W	600,000	11	12	25 ⁽¹³⁸⁾	Screw Terminals	CC-8	95	3 3/8
Q4559	Halogen Quartzline Aircraft Landing ⁽¹¹⁸⁾	28.0	600W	600,000	12	8	100 ⁽¹³⁸⁾	Screw Terminals	CC-6	95	3 3/8
Q4559X	Halogen Quartzline Aircraft Landing ⁽¹¹⁸⁾	28.0	600W	765,000	11	7 1/2	100 ⁽¹³⁸⁾	Screw Terminals	CC-6	95	3 3/8
Q4629	Halogen Quartzline Aircraft Logo Light ⁽¹¹⁸⁾	28.0	600W	20,000	55	35	1000	Screw Terminals	CC-6	122	4 7/8
4557	Aircraft Landing/Taxiing ⁽¹⁴⁾	28.0	1000W	540,000	11	15	25	Screw Terminals	CC-8		
		28.0	400W	100,000	25	11	100 ⁽¹³⁸⁾	3 Screw Terminals	CC-6	95	3 3/8
5557	Aircraft Landing/Taxiing ⁽¹⁴⁾	28.0	1000W	140,000	11	15	50	Screw Terminals	CC-8		
		28.0	400W	100,000	25	11	100 ⁽¹³⁸⁾	3 Screw Terminals	C-6	95	3 3/8
4555	Aircraft Landing ^{(14) (119)}	115.0	1000W	600,000	20	11	25 ⁽¹³⁸⁾	Screw Terminals	C-13	95	3 3/8
RECTANGULAR 72mm x 140mm (2.8 in x 5.5 in)											
H4360	Tractor	12.8	37.5W	2000	Trapezoid		320	2 Rt. Angle Lugs	C-6	76.2	3.0
H4351	Halogen Auto Headlamp Low Beam Type K ⁽¹¹⁸⁾	12.8	55W	SAE Specifications			500	Right Angle, Plastic			
H4352	Halogen Auto Headlamp, Upper Beam Type K ⁽¹¹⁸⁾	12.8	65W	SAE Specifications			150	Right Angle, Plastic	C-8	102	4.0
RECTANGULAR 92mm x 150mm (3.6 in x 5.9 in)											
H9415	Auto, Fog-Halogen ⁽¹¹⁸⁾	12.8	37.5W	12,000	45	5	200 ⁽⁴⁾	2 Rt. Angle Lugs	C-6	76	3.0
H9415A	Auto Fog Amber ⁽¹¹⁸⁾	12.8	37.5W	-	45	5	200 ⁽⁴⁾	2 Rt. Angle Lugs	C-6	76	3.0
H9405	Spotlamp, Halogen ⁽¹¹⁸⁾	12.8	50W	100,000	7	4	100	2 Rt. Angle Lugs	C-6	76	3.0
H9406	Tractor, Flood, Halogen ⁽¹¹⁸⁾	12.8	50W	1,350	70	30	400 ⁽⁴⁾	2 Rt. Angle Lugs	C-6	76	3.0

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Sealed Beam Lamp Specifications

Lamp No.	Primary Application	Design Volts	Design Watts or Amps	Approx. Initial Maximum Beam C.P.	Approx. Total Spread to 10% Max. C.P. (Degrees)		Rated Average Lab Life (Hours)	Base	Filament Designation	Max. Overall Length	
					Horiz.	Vert.				mm	in.
RECTANGULAR 92mm x 150mm (3.6 in x 5.9 in) (continued)											
H9411	Tractor, Trapezoidal, Halogen ⁽¹¹⁸⁾	12.8	50W	5,400	Trapezoid		400 ⁽⁴⁾	2 Rt. Angle Lugs	C-6	76	3.0
H9414	Tractor, Emergency Lighting, Medium Flood, Halogen ⁽¹¹⁸⁾	12.8	50W	2,700	45	20	400 ⁽⁴⁾	2 Rt. Angle Lugs	C-6	76	3.0
H9420	Auto, Driving - Halogen ⁽¹¹⁸⁾	12.8	50W	47,000	15	5	200 ⁽⁴⁾	2 Rt. Angle Lugs	C-6	76	3.0
H9421	Auto, Truck, Special Service - Halogen ⁽¹¹⁸⁾	12.8	50W	4,000	45	8	200 ⁽⁴⁾	2 Rt. Angle Lugs	C-6	76	3.0
H4703	Halogen Auto Headlamp, Low Beam Type LF ⁽¹¹⁸⁾	12.8	55W	SAE Specifications			320 ⁽⁴⁾	2 Lugs	C-8	85	3.4
H4701	Halogen Auto Headlamp High Beam Type UF ⁽¹¹⁸⁾	12.8	65W	SAE Specifications			150 ⁽⁴⁾	2 Lugs	C-8	85	3.4
RECTANGULAR 100mm x 165mm (4.2 in x 6.5 in)											
H4656	Halogen Auto Headlamp, Low Beam, Type 2A1 ^{(118) (151)}	HI 12.8	35W	SAE Specifications			200 ⁽⁴⁾		C-6		
HP4656	Halogen Auto Headlamp, Low Beam, Type 2A1 ^{(118) (151)}	LO 12.8	35W	SAE Specifications			320 ⁽⁴⁾	3 Contact Lugs	C-6	121	4.8
H4656HO*	Performance Series, Type 2A1 Headlamp	HI 12.8	40W	SAE Specifications			200 ⁽⁴⁾		C-8		
H5062	Halogen Truck Headlamp, Low Beam, Type 2A1 ^{(118) (151)}	LO 12.8	55W	SAE Specifications			700	3 Contact Lugs	C-8	121	4.8
4652	Auto Headlamp, Low Beam, Type 2A1 ⁽²⁶⁾	HI 12.8	40W	SAE Specifications			400 ⁽⁴⁾		C-6		
4651	Auto Headlamp, High Beam, Type 1A1	LO 12.8	60W	SAE Specifications			200 ⁽⁴⁾	3 Contact Lugs	C-6	121	4.8
H4651	Halogen Auto Headlamp, High Beam, Type 1A ^{(118) (151)}	12.8	50W	SAE Specifications			200 ⁽⁴⁾	2 Contact Lugs	C-6	121	4.8
HP4651	Halogen Auto Headlamp, High Beam, Type 1A ^{(118) (151)}	12.8	50W	SAE Specifications			200 ⁽⁴⁾	2 Contact Lugs	C-6	121	4.8
4912-1	Auto/Truck Fog ⁽⁸¹⁾	12.8	50W	14,000	40	7	300	Slip-on Terminals	C-6	115	4.53
4913-1	Farm Tractor, Flood	12.8	50W	1,350	80	20	400 ⁽⁴⁾	Slip-on Terminals	C-6	115	4.53
4919-1	Farm Tractor ⁽⁹⁴⁾	12.8	50W	3,750	Trapezoid		400 ⁽⁴⁾	Slip-on Terminals	C-6	115	4.53
H5051	Halogen Truck Headlamp, High Beam, Type 1A ^{(118) (151)}	12.8	50W	SAE Specifications			500 ⁽⁴⁾	2 Contact Lugs	C-6	121	4.8
H7921-1	Halogen Auto/Truck Special Service ^{(109) (118)}	12.8	50W	23,900	35	5	200 ⁽⁴⁾	Slip-on Terminals	C-6	121	4.53
H7935-1	Halogen Spotlamp ⁽¹¹⁸⁾	12.8	50W	175,000	6½	3½	100	Slip-on Terminals	C-6	115	4.53
H4666	Halogen Auto Headlamp, High/Low Beam, Type 2E1 ^{(118) (H4668)}	HI 12.8	65W	SAE Specifications			150 ⁽⁴⁾				
H7913HIR*	Farm Tractor, Flood Halogen Infrared ⁽¹¹⁸⁾	LO 12.8	55W	SAE Specifications			320 ⁽⁴⁾	3 Contact Lugs ⁽¹⁶⁶⁾	C-8	121	4.8
4921-1	Auto/Truck, Special Service ⁽¹⁰⁹⁾	13.0	100W	4,000	70	20	800	2 Contact Lugs	C-8	121	4.8
				25,000	40	7	300	Slip-on Terminals	C-6	115	4.53

⁽⁴⁾ At 14 volts.

⁽¹⁴⁾ This lamp is specially designed for a particular purchaser and may not be suitable for other uses because of its excessive wattage requirements for the bulb size. Consult the nearest GE lamp sales office for application information.

⁽¹⁵⁾ This lamp is specially designed for a particular purchaser and may not be suitable for other uses because of its limited mechanical strength. Consult the nearest GE lamp sales office for application information.

⁽²⁰⁾ Slightly rounded cover.

⁽²³⁾ At 7 volts.

⁽²⁴⁾ Lower beam filament shielded.

⁽³⁴⁾ Clear round window in reflector below base terminals.

⁽³⁵⁾ Outside transparent red coating on reflector. Transparent round window in reflector below base terminals.

⁽⁴²⁾ Hemispherical shield in front of filament which masks all direct light.

⁽⁸¹⁾ 90 spherical shield above filament which masks all upward direct light.

⁽⁸²⁾ Hemispherical Shield in front of filament which mask all direct light.

⁽⁸³⁾ 120° cylindrical shield positioned to the side of the filament.

⁽⁸⁴⁾ Filament construction designed especially for military flashing signal services. Consult GE Lamp Product Planning and Application before recommending for other applications.

⁽⁹²⁾ Filament segments parallel.

⁽⁹⁴⁾ Trapezoidal beam, spread to 10% measured through the center of the beam pattern.

⁽⁹⁶⁾ Lens stippled.

⁽⁹⁸⁾ Not for highway use.

⁽¹⁰⁷⁾ The coating on this lamp is made and applied using high-quality materials. Like most coatings, it may fade or peel over a period of time, and care should be taken to avoid damage caused by emission of the proper color light has been affected.

⁽¹⁰⁸⁾ The process of applying this permanent red finish may impart a slight iridescence and gradation of color to the lens, but this will not affect lamp's performance.

⁽¹⁰⁹⁾ Special fixture required for highway use.

⁽¹¹⁸⁾ CAUTION: This sealed beam lamp has an inner halogen-cycle bulb. This pressure-filled inner bulb could shatter if scratched or damaged. If the outer sealed envelope is intact, this will be no problem, if the outer sealed envelope is broken, however, do not operate the lamp. Instead, carefully remove and dispose of the lamp by placing it in a used headlamp carton or other closed container. INFORMATION NOTICE: The inner bulb will continue to burn if the outer envelope is cracked or broken. Cracked or broken envelopes will result in reflector deterioration such as the Discoloration and disappearance of the aluminized coating. This deterioration will also reduce light output. Promptly replace any sealed beam lamp showing reflector deterioration.

⁽¹¹⁹⁾ CAUTION: This Lamp operates at 120 volts. Use in properly insulated housings designed for this type lamp. Turn power off when installing or removing lamps.

⁽¹³⁴⁾ Wide flood beam lamps are used for forward illumination as well as for lighting implements at the rear of the tractor.

⁽¹³⁷⁾ Not interchangeable with lamp 4409, this lamp must be used in a housing equipped with a 32 candlepower bulb (1156) that provides the proper light for tail lamp application. It should not be used in housings that contain a 15 candlepower bulb (1003 or 1004) the reflector is stained red.

⁽¹³⁸⁾ Life under specified test conditions: Cycled 5 minutes off:

⁽¹³⁸⁾ Wide flood beam lamps are used for forward illumination as for lighting implements.

⁽¹⁴⁶⁾ Ceramic bridge.

⁽¹⁵¹⁾ Alternative construction may be adhesive seal.

⁽¹⁶³⁾ Plastic lens and reflector.

⁽¹⁶⁶⁾ Contact lugs are angled. See drawing page 48.

⁽¹⁹⁸⁾ Screws inserted.

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RAYOVAC FLASHLIGHTS AND BATTERIES

INDUSTRIAL BATTERIES



Alkaline Maximum & Heavy Duty Industrial Batteries

AL-D	Alkaline D Size 6 Pack
AL-C	Alkaline C Size 6 Pack
AL-AA	Alkaline AA Size 8 Pack
AL-AAA	Alkaline AAA Size 8 Pack
AL-9V	Alkaline 9 Volt Size 6 Pack
HD-D	Heavy Duty D Size 6 Pack
HD-C	Heavy Duty C Size 6 Pack
HD-AA	Heavy Duty AA Size 8 Pack
HD-9V	Heavy Duty 9 Volt 6 Pack

Alkaline Maximum Contractor Resealable Packs

ALD-12	Contractor Pack Size D 12 Pack
ALC-12	Contractor Pack Size C 12 Pack
ALAA-24	Contractor Pack AA 24 Pack
ALAAA-18	Contractor Pack AAA 18 Pack
AL9V-8	Contractor Pack 9 Volt 8 Pack

Lantern, Barricade & Emergency Ignition Batteries



944

918



6V-HDM

6V-GP	6 Volt Spring Terminals, Industrial, General Purpose
6V-HD	6 Volt Spring Terminals, Industrial, Heavy Duty
6V-HDM	6 Volt Spring Terminals, Industrial, Heavy Duty Maximum
803	7.5 Volt Screw Terminals, Emergency, Alkaline
806	6 Volt Spring Terminals, Alkaline Maximum Lantern Battery
903	7.5 Volt Screw Terminals, Emergency
904	9 Volt Screw Terminals, Emergency
918	6 Volt Screw Terminals, General Purpose
920	6 Volt Screw Terminals, Barricade
926	12 Volt Screw Terminals, General Purpose
928	6 Volt Screw Terminals, Heavy Duty
941	6 Volt Spring Terminals, General Purpose
944	6 Volt Spring Terminals, Heavy Duty
HD-B-12V	12 Volt Type B Barricade Flasher Lantern Battery

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RAYOVAC FLASHLIGHTS AND BATTERIES

FLASHLIGHTS & LANTERNS

Industrial Flashlights



IN2



IN3



IN4

- IN2 2 Cell D Size Flashlight and Ring Hanger
- IN2-K 2 Cell D Size Flashlight with Krypton Bulb and Ring Hanger
- IN2-ML 2 Cell D Size Flashlight with Magnet
- IN2-KML 2 Cell D Size Flashlight with Krypton Bulb and Magnet
- IN3 3 Cell D Size Flashlight
- IN4 2 Cell AA Size Flashlight with Ring Hanger



IN2-MS



IN6V-MS

- IN2-MS 2 Cell D Size Orange Safety Flashlight
- IN3-MS 3 Cell D Size Orange Safety Flashlight
- IN6V-MS 6 Volt Orange Industrial Lantern with Safety Head

Swivel-Lite Flashlights

- I6V-B 6V Industrial Lantern with Krypton Bulb and Heavy Duty Lantern Battery
- ISL2DX 2 Cell D Industrial Swivel-Lite Flashlight
- ILJ2AAX 2 Cell AA Industrial Swivel-Lite Flashlight



I6V-B

ISL2DX

ILJ2AAX

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RAYOVAC FLASHLIGHTS AND BATTERIES

FLASHLIGHTS & LANTERNS (CONTINUED)

Roughneck Flashlights



R2D-B

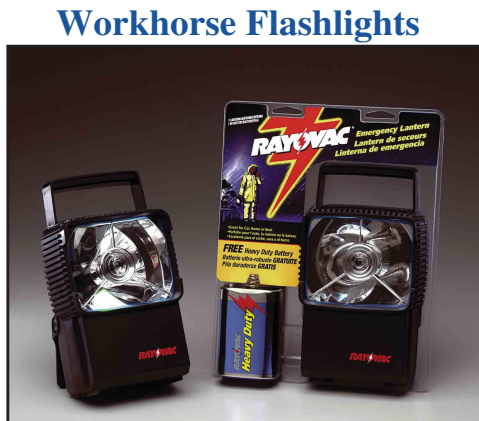


R2AA-B

- R2D 2 Cell D Size Flashlight with Spot/Flood Focus
- R2D-B 2 Cell D Size Flashlight with Spot/Flood Focus with 2 HD Batteries
- R2AA-B 2 Cell AA Size Flashlight with Spot/Flood Focus with batteries
- R3D 3 Cell D Flashlight with Spot/Flood Focus



W2D-B



WH5



W2AA-B

- W2AA-B 2 Cell AA Workhorse Flashlight and Two Heavy Duty AA Batteries
- W2D 2 Cell D Size Workhorse Flashlight
- W4D-B 4 Cell D Size Workhorse Compact Lantern and Four Heavy Duty D Batteries
- WH5 6-volt Emergency Lantern with Tilt Base and Heavy Duty Battery
- WH8 12-volt Workhorse 360 Degree Lantern

Industrial Rubber Flashlights



BR2D-B



BR4AA-B

- BR2AA-B 2 Cell AA Size Flashlight with Batteries
- BR2D-B 2 Cell D Size Flashlight with Batteries
- R4AA-B 4 AA Size Flashlight with Batteries

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RAYOVAC FLASHLIGHTS AND BATTERIES

FLASHLIGHTS & LANTERNS (CONTINUED)

Value Brights Flashlights



V2AA-B



V2D-B



V4AA-B

- V2AA-B 2 Cell AA Size Flashlight with Batteries
- V2D-B 2 Cell D Size Flashlight with Batteries
- V2AAA-B Value Bright Penlight with Two AAA Batteries
- V4AA-B 4 Cell AA Size Flashlight with Batteries

Sportsman Flashlights



SPC2AA-B



SPC2D-B



SPC4AA-B

- SPC2AA-B 2 Cell AA Size Camouflage Flashlight with Batteries
- SPC2D-B 2 Cell D Size Camouflage Flashlight with Batteries
- SPC4AA-B 4 AA Size Camouflage Flashlight with Batteries

Lanterns



SL4D

- KFL 6 Volt Floating Lantern with Krypton Bulb
- LM10-S 6 Volt Heavy Duty Floating Lantern with 944 Battery
- L295-BI 6 Volt Floating Beam Lantern
- L295-SI 6 Volt Floating Beam Lantern with 941 Battery
- 301K 6 Volt Lantern with Krypton Bulb & Rubber Lens Ring with 918 Battery
- SL4D-B 4 Cell D Size Swivel Lantern with Adapter and 4 D Size Batteries

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LAMP INDEX

Lamp #	Page	Line	Lamp #	Page	Line	Lamp #	Page	Line	Lamp #	Page	Line
3S6/5-120V-I	32	1	12MB	20	2	158	21	16	555	21	5
3S6/5-130V-I	32	2	12PSB	19	16	161	21	13	561	20	11
3S6/5-140V-I	32	3	13	11	6	168	21	24	562	20	15
3S6/5-145V-I	32	4	14	11	5	192	21	9	563	20	12
3S6/5DC-120V-I	32	5	15	12	8	193	21	22	564	20	16
3S6/5DC-130V-I	32	6	15T4C-130V-I	34	6	194	21	18	570	23	1
4C7-120V-I	33	25	15T7C-120V-I	34	3	194A	21	19	577	23	2
6	14	20	15T7DC-120V-I	34	4	198	16	15	585	22	4
6MB	20	1	15T7DC-130V-I	34	5	199	16	16	605	12	6
6PSB	19	15	17	19	14	210	10	21	623	13	21
6S6/7-120V-I	32	23	19	11	11	211-2	20	13	624	13	22
6S6/7-130V-I	32	24	20S6-130V-I	33	24	212-2	20	14	631	13	15
6S6/DC-120V-I	33	3	24E	19	17	222	24	6	655	22	14
6S6/DC-12V-I	32	26	24E1	19	18	233	11	2	656	22	2
6S6/DC-130V-I	33	4	24E2	19	19	243	24	7	657	22	6
6S6/DC-145V-I	33	5	24MB	20	3	245	11	3	658	21	11
6S6/DC-155V-I	33	6	24PSB	19	20	256	21	20	683	18	2
6S6/DC-24V-I	32	27	24X	19	21	257	12	12	755	20	26
6S6/DC-30V-I	32	28	27	12	1	258	12	13	756	21	12
6S6/DC-32V-I	32	29	28MB	20	4	259	21	4	757	22	7
6S6/DC-48V-I	32	30	28PSB	19	22	265	11	15	767	28	5
6S6/DC-60V-I	33	1	37	18	30	280	21	7	773	28	15
6S6/DC-6V-I	32	25	40	20	23	285	20	21	774	28	8
6S6/DC-75V-I	33	2	44	21	2	293	12	17	777	28	1
6S6-120V-I	32	16	45	20	19	303	13	19	778	28	14
6S6-120V-LED	29	19	46	21	3	304	13	20	782	28	17
6S6-12V-I	32	8	47	20	24	305	17	1	783	28	9
6S6-130V-I	32	17	48MB	20	5	305IF	17	2	784	28	2
6S6-135V-I	32	18	48PSB	19	23	306	17	3	785	28	3
6S6-145V-I	32	19	51	11	8	306IF	17	4	786	28	6
6S6-155V-I	32	20	53	11	12	307	17	10	787	28	4
6S6-18V-I	32	9	55	12	9	307IF	17	11	788	28	7
6S6-230V-I	32	21	57	12	11	307R	17	12	789	28	16
6S6-24V-I	32	10	60MB	20	6	308	17	13	790	28	18
6S6-250V-I	32	22	60PSB	19	24	308IF	17	14	791	28	19
6S6-30V-I	32	11	63	13	4	309	17	23	795	26	19
6S6-32V-I	32	12	64	13	5	311	17	24	795X	26	20
6S6-48V-I	32	13	67	13	10	312	17	25	796	26	21
6S6-60V-I	32	14	68	13	11	313	22	11	880	26	22
6S6-6V-I	32	7	70	19	4	320A	19	7	881	26	23
6S6-75V-I	32	15	73	18	25	327	19	11	882	28	10
6S6SC-6V-I	33	7	74	19	1	328	18	18	882X	28	11
6S6SC-12V-I	33	8	79	18	19	330	18	26	884	26	24
6S6SC-24V-I	33	9	81	13	2	334	19	12	885	26	25
6S6SC-36V-I	33	10	82	13	3	335	19	13	886	26	26
6S6SC-40V-I	33	11	85	19	6	338	18	16	889	27	1
6S6SC-75V-I	33	12	86	18	21	345	18	17	890	27	2
6S6SC-120V-I	33	13	88	14	27	356	11	16	891	28	13
6S6SC-130V-I	33	14	89	13	6	367	18	24	893	27	3
6S6SC-150V-I	33	15	90	13	7	379	18	22	894	27	4
6S6SC-155V-I	33	16	90MB	20	7	381	18	23	895	17	22
6T4-1/2/1-120V-I	34	1	93	14	30	382	18	27	896	27	5
6T4-1/2/1-130V-I	34	2	94	14	31	385	19	8	901	23	13
7C7-120V-I	33	26	97	13	13	386	18	29	904	23	25
7C7-130V-I	33	27	98	13	8	387	19	9	906	23	23
7C7DC-120V-I	33	28	99	13	9	388	19	10	906F	23	24
10	11	4	104	10	24	400	22	8	908	23	10
10C7-120V-I	33	29	105	10	25	407	12	2	909	23	7
10C7DC-120V-I	33	30	112	24	5	425	12	3	912	23	17
10S6/10-230V-I	33	19	120MB	20	8	428	12	10	912F	23	18
10S6/10-250V-I	33	20	120PSB	19	25	447	20	25	914	23	5
10S6/10DC-230V-I	33	21	130MB	20	9	455	12	7	915	23	11
10S6/10DC-250V-I	33	22	131	11	1	456	12	18	916	23	21
10S6/13-250V-I	33	23	152	22	3	464	22	12	916NA	23	22
10S6-120V-I	33	17	155MB	20	10	502	12	4	917	23	12
10S6-130V-I	33	18	155PSB	19	26	503	12	5	918	23	14
12	11	7	157	13	1	509K	13	16	921	23	19

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LAMP INDEX

Lamp #	Page	Line	Lamp #	Page	Line	Lamp #	Page	Line	Lamp #	Page	Line
921F	23	20	1480	22	21	3155	15	8	PR12	10	17
922	23	16	1490	20	18	3156	16	7	PR13	10	11
923	23	15	1493	14	23	3157	16	8	PR15	10	14
926	23	6	1495	22	24	3157NA	16	9	PR16	10	20
927	23	9	1591	17	5	3357	16	13	PR17	10	15
928	23	26	1591IF	17	6	3357NA	16	14	PR18	10	18
939	23	8	1612	14	15	3496	24	1	PR2	10	2
1003	10	22	1619	14	26	3497	24	2	PR20	10	19
1004	10	23	1630	14	24	3652	21	25	PR3	10	6
1016	15	1	1631X	14	25	6832	18	1	PR30	10	10
1034	15	9	1638	17	19	6838	18	4	PR4	10	1
1034A	15	10	1651	14	14	6839	18	6	PR6	10	5
1047	14	9	1665IF	17	18	7154AS15	18	5	PR7	10	9
1054	14	10	1662	16	17	7373	19	2	SR1205XF-FT	30	4
1062	14	11	1665	17	17	7381	18	20	SR1205XF-RLB	30	5
1073	15	11	1680	14	16	7387	19	3	SR1205X-FT	30	1
1076	15	12	1680X	14	17	7440	24	3	SR1205X-G4	30	2
1076IF	15	13	1683	17	20	7443	24	4	SR1205X-RLB	30	3
1129	14	19	1691	17	7	7839	18	7	SR-120MB-LED	29	14
1133	14	3	1691IF	17	8	8111	18	3	SR-120PSB-LED	29	15
1139IF	14	8	1692	17	9	9003	27	6	SR-120V-LED	29	19
1141	15	4	1767	18	15	9004	27	7-9	SR120V-MB-I	34	8
1141A	15	5	1810	21	6	9005	27	10-11	SR1210XF-FT	30	9
1141IF	15	6	1813	21	26	9006	27	12-13	SR1210XF-RLB	30	10
1142	15	7	1815	21	14	9007	27	14-16	SR1210X-FT	30	6
1143IF	14	4	1816	21	10	A1A	25	1	SR1210X-G4	30	7
1152	15	2	1818	21	28	A1B	25	2	SR1210XH-F-G4	30	12
1154	14	18	1819	22	1	A9A	25	3	SR1210XH-G4	30	11
1155	13	12	1820	22	9	B1A	25	4	SR1210X-RLB	30	8
1156	15	14	1821	22	10	B2A	25	5	SR1211X-WB	30	13
1156A	15	17	1822	22	16	B7A	25	6	SR1215XH-G4	30	14
1156DC	15	16	1823	22	18	B9A	25	7	SR1220XH-F-G4	30	16
1156LL	15	15	1828	22	17	C2A	25	8	SR1220XH-G4	30	15
1156NA	15	18	1829	22	5	C7A	25	9	SR1250X-1	30	17
1157	15	19	1835	22	19	C9A	25	10	SR1250X-2	30	18
1157A	15	21	1841	22	22	CANDLEPWR-4750X	26	14	SR1250X-2-WB	30	19
1157LL	15	20	1843	21	29	CANDLEPWR-4900	26	15	SR12V-8W-MS	34	9
1157NA	15	22	1847	20	27	CANDLEPWR-4920	26	16	SR-12V-BP-LED	29	4
1176	15	3	1850	20	22	E17	18	14	SR-12V-SCMF-LED	29	5
1178	13	14	1864	22	13	E37	18	11	SR-12V-WB-LED	29	6
1183	14	1	1866	21	1	E73	18	10	SR130V-MB	34	10
1184	14	2	1873	22	15	E74	18	12	SR18V-C	34	11
1195	14	5	1874	23	4	E79	18	8	SR2405XF-FT	30	23
1196	14	6	1876	23	3	E85	18	13	SR2405XF-G4	31	1
1203	17	15	1889	21	21	E86	18	9	SR2405XF-RLB	31	2
1204	17	16	1891	21	17	HELLA-78127	26	5	SR2405X-FT	30	20
1224	13	23	1892	21	27	HELLA-78159	26	6	SR2405X-G4	30	21
1229	17	21	1893	21	23	JC-12V/10W/G4	26	17	SR2405X-RLB	30	22
1251	13	17	1895	12	14	JC-12V/20W/G4	26	18	SR240V-MB	34	12
1252	13	18	1895B	12	15	K12	10	16	SR2410X-2-WB	31	3
1293	14	7	1895R	12	16	K13	10	12	SR2410XF-FT	31	6
1295	14	28	1898	21	15	K2	10	3	SR2410XF-RLB	31	7
1295NA	14	29	1906	20	20	K3	10	7	SR2410X-FT	31	4
1308	10	27	2040	28	12	KPR102	10	4	SR2410XH-F-G4	31	9
1309	10	26	2057	16	1	KPR103	10	8	SR2410XH-G4	31	8
1383	14	12	2057A	16	3	KPR113	10	13	SR2410X-RLB	31	5
1385	14	13	2057LL	16	2	OSRAM-64150	26	1	SR2420XH-G4	31	10
1408	21	8	2057NA	16	4	OSRAM-64151	26	7	SR2450X	31	11
1414	22	23	2182D	18	28	OSRAM-64152	26	2	SR2472X-2-WB	31	12
1445	11	13	2187D	19	5	OSRAM-64153	26	8	SR2475X-WB	31	13
1446	11	9	2357	16	10	OSRAM-64155	26	3	SR-24EIR-LED	29	7
1449	11	10	2357A	16	11	OSRAM-64156	26	9	SR24V-C	34	13
1450	11	14	2357NA	16	12	OSRAM-64173	26	4	SR24V-MB	34	14
1460	14	21	2604X	28	20	OSRAM-64191	26	12	SR24V-MS	34	15
1460X	14	22	3011	17	26	OSRAM-64193	26	10	SR2820XH-G4	31	14
1477	20	17	3057	16	5	OSRAM-64194	26	13	SR2860X-WB	31	15
1479	22	20	3057NA	16	6	OSRAM-64198	26	11	SR-28PSB-LED	29	11

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LAMP INDEX

Lamp #	Page	Line	Lamp #	Page	Line	Lamp #	Page	Line	Lamp #	Page	Line
SR-28V-BP-LED	29	8									
SR-28V-MG-LED	29	9									
SR-28V-MS-LED	29	10									
SR-28V-SCMF-LED	29	12									
SR-28V-WB-LED	29	13									
SR30V-C	34	16									
SR30V-MB	34	17									
SR48V-MS	34	18									
SR60V-MS	34	19									
SR-6V-BP-LED	29	1									
SR-6V-SCMF-LED	29	2									
SR-6V-WB-LED	29	3									
SR-755-LED	29	16									
SR-756-LED	29	17									
SR-757-LED	29	18									
SR7742X-WB	31	16									
SR921-XENON	31	17									
SR-NE120PSB	34	7									
SR921-XENON	31	17									
□	□	□									

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"MINIATURE LAMP SPECIALISTS"

1 Whatney, Irvine, CA 92618-2806

(800) 854-4487 • (949) 452-0900

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e-mail: sunray@sunraylighting.com

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