



Energy-Efficient Direct Incandescent Replacement 8000K Cool White Based LED Lamps



Features

- Maintenance Free, Easy Installation
- Direct Mount in Industry Standard Sockets Without Modification
- Solid-State, High Shock/Vibration Resistant
- Built-in Current Limiting Resistors
- LED Operating Life: 100,000+ hrs (10+ Years)
- Low Power Consumption, High Intensity
- Major Power Savings
- Major Reduction in Heat Generation
- Wide Angle 120° Illumination
- InGaN LED Technology
- Three-Year Lamp Warranty

Options

- Warm & Incandescent White Available
- Special Voltages
- High Power Multichip Configurations
- Narrow Beam (20°) Illumination
- Red, Orange, Yellow, Green, Blue, IR

Subminiature Packages	Replaces Incandescent	Part Number	Electrical-Optical Characteristics (Ta = 25°C)				View Angle 2θ _{1/2}	Special Features
			Voltage (V) typ	Current (mA) typ	Illumination (fc)	Intensity (mcd)		
T1 (3mm) Sub-Midget Flange F121 Ceramic Base FF120 Dimensions: .429, .180, .157 Dia, Center Contact		FF120CW400-3.6VF-P	3.6Vf*	15	50	150	120°	Center Contact Polarity P = Positive N = Negative Replace FF120 With F120 Std. (50°) Beam Intensity 650mcd/75fc
	682,685,714,718	FF120CW400-5V-P	5V	15	50	150		
	7241	FF120CW400-18V-P	18V	15	50	150		
	6839	FF120CW900-24V-P	24V	10	33	100		
	6839	FF120CW900-28V-P	28V	10	33	100		
T1 (3mm) Sub-Midget Bi-Pin BP121 Ceramic Base BPF120 Dimensions: .40, .250, .130, .100, .150 Dia, Positive		BPF120CW400-3.6VF	3.6Vf*	15	50	150	120°	Replace BPF120 With BP120 Std. (50°) Beam Intensity 650mcd/75fc @ 15mA
	7265,7680,7714	BPF120CW400-5V	5V	15	50	150		
		BPF120CW400-14V	12/14V	15	50	150		
	7839	BPF120CW900-24V	24V	10	33	100		
	7839	BPF120CW900-28V	28V	10	33	100		
T1-1/2 (4.5mm) Midget Wedge WF150 Dimensions: .80 MAX, .23, .185, .200 Dia, Positive		WF150CW600-3.6VF	3.6Vf*	15	60	160	120°	Replace WF150 With W150 Std. (50°) Beam Intensity 750mcd/75fc @ 15mA
	56,79,84,86	WF150CW600-5V	5V	15	60	160		
	18,37,73,74	WF150CW600-14V	12/14V	15	60	160		
	17, 85	WF150CW600-24V	24V	15	60	160		
	17, 85	WF150CW600-28V	28V	15	60	160		
T1-3/4 (5mm) Midget Wedge WF200 Dimensions: .80 MAX, .200, .230 Dia, Positive		WF200CW600-3.6VF	3.6Vf*	15	60	160	120°	Replace WF200 With W200 Std. (50°) Beam Intensity 750mcd/75fc @ 15mA
	56,79,84,86	WF200CW600-5V	5V	15	60	160		
	18,37,73,74	WF200CW600-14V	12/14V	15	60	160		
	17, 85	WF200CW600-24V	24V	15	60	160		
	17, 85	WF200CW600-28V	28V	15	60	160		
T1-3/4 (5mm) Midget Flange FF200 Dimensions: .65 MAX, .20, .28, .240 Dia, Center Contact		FF200CW600-3.6VF-P	3.6Vf*	15	60	160	120°	Center Contact Polarity BP = BiPolar AC/DC Replace FF200 With F200 Std. (50°) Beam Intensity 750mcd/75fc
	328,345,350	FF200CW600-6V-BP	5V	15	60	160		
	330,382,394	FF200CW600-14V-BP	12/14V	15	60	160		
	327,376,387	FF200CW600-24V-BP	24V	15	60	160		
	327,376,387	FF200CW600-28V-BP	28V	15	60	160		
T1-3/4 (5mm) Midget Groove GF200 Dimensions: .63 MAX, .20, .22, .226 Dia, Center Contact		GF200CW1K-3.6VF-P	3.6Vf*	15	60	160	120°	Center Contact Polarity BP = BiPolar AC/DC Replace GF200 With G200 Std. (50°) Beam Intensity 750mcd/75fc
	337,379,398	GF200CW1K-6V-BP	5/6V	15	60	160		
	386	GF200CW1K-14V-BP	12/14V	15	60	160		
	334,388	GF200CW1K-24V-BP	24V	15	60	160		
	334,388	GF200CW1K-28V-BP	28V	15	60	160		
T1-3/4 (5mm) Midget Screw SF200 Dimensions: .63 MAX, .20, .207, Center Contact		SF200CW1K-3.6VF-P	3.6Vf*	15	60	160	120°	Center Contact Polarity P = Positive N = Negative Replace SF200 With S200 Std. (50°) Beam Intensity 750mcd/75fc
	378,1768,1775	SF200CW1K-5V-P	5/6V	15	60	160		
	336,383	SF200CW1K-14V-P	12/14V	15	60	160		
	342	SF200CW1K-24V-P	24V	15	60	160		
	335,342,369,399	SF200CW1K-28V-P	28V	15	60	160		
T1-3/4 (5mm) Midget Bi-Pin BPF200 Dimensions: .58, .25, .120, .20, .25 Dia, Positive		BPF200CW600-5V	5V	15	60	160	120°	Replace BPF200 With BP200 Std. (50°) Beam Intensity 750mcd/75fc
	7328	BPF200CW600-12V	12V	15	60	160		
	7371	BPF200CW600-14V	12/14V	15	60	160		
	7330,7382	BPF200CW600-24V	24V	15	60	160		
	7327,7387	BPF200CW600-28V	28V	15	60	160		

All dimensions in inches. For millimeters multiply by 25.4

* External resistor required.

Caution A white LED is extremely bright and care should be taken in handling it. When an overvoltage is applied, which exceeds the absolute maximum rating of the white LED, its energy damages the LED.

Log # 078A Rev 11-2000

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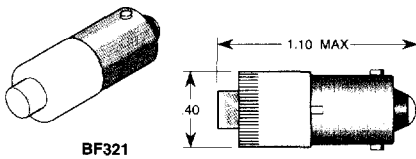
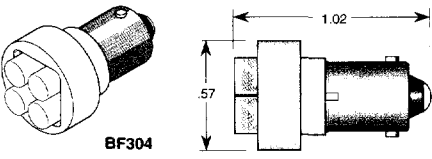
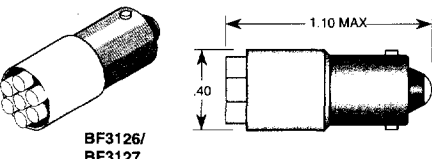
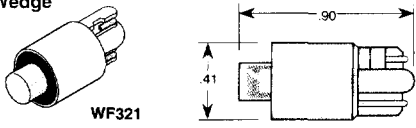
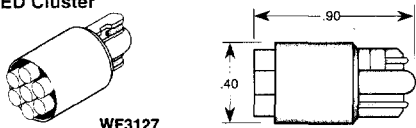
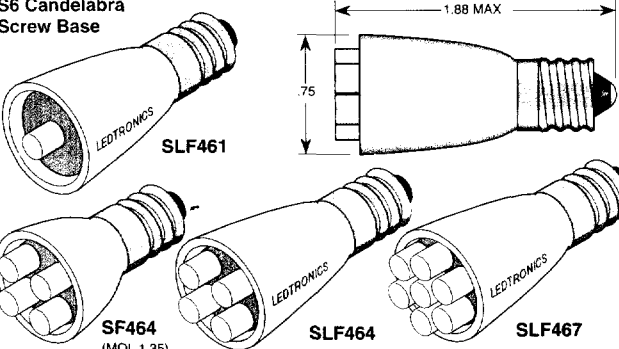
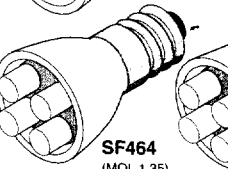
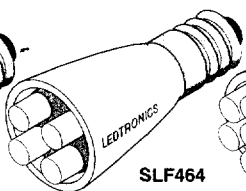
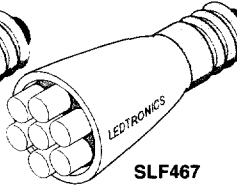


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LEDTS00321



Energy-Efficient Direct Incandescent Replacement 8000K Cool White Based LED Lamps

Miniature Packages	Replaces Incandescent	Part Number	Electrical-Optical Characteristics (Ta = 25°C)				View Angle 2θ _{1/2}	Special Features
			Voltage (V) typ	Current (mA) typ	Illumination (fc)	Intensity (mcd)		
T3-1/4 (9mm) Miniature Bayonet  BF321	6MB, 44, 47, 755	BF321CW600-6V-BP	5/6V	15	60	160	120°	Center Contact Polarity BP = Bipolar AC/DC Replace BF321 With B321 for Std. Beam (50°)
	12MB, 756	BF321CW600-14V-BP	12/14V	15	60	160		
	24MB,	BF321CW600-24V-BP	24V	15	60	160		
	313,757,1819,1829	BF321CW600-28V-BP	28V	15	60	160		
	48MB	BF321CW600-48V-BP	48V	12	48	128		
	60MB, 1835	BF321CW600-60V-BP	60V	12	48	128		
	120MB, NE51H	BF321CW600-120VAC	120VAC	10	40	106		
		BF321CW600-130V-BP	130V	8	32	85		
		BF321CW600-240VAC	240VAC	4	16	42		
T3-1/4 (9mm) Miniature Bayonet LED Cluster  BF304	6MB, 44, 47, 755	BF304CW600-6V-BP	5/6V	60	240	640	120°	Center Contact Polarity BP = Bipolar AC/DC Replace BF304 With B304 for Std. Beam (50°)
	12MB, 756	BF304CW600-14V-BP	12/14V	30	240	640		
	24MB,	BF304CW600-24V-BP	24V	15	240	640		
	313,757,1819,1829	BF304CW600-28V-BP	28V	15	240	640		
	48MB	BF304CW600-48V-BP	48V	12	192	512		
	60MB, 1835	BF304CW600-60V-BP	60V	12	192	512		
	120MB, NE51H	BF304CW600-120VAC	120VAC	10	160	424		
		BF304CW600-130V-BP	130V	8	128	340		
		BF304CW600-240VAC	240VAC	4	64	168		
T3-1/4 (9mm) Miniature Bayonet LED Cluster  BF3126/ BF3127	6MB, 44, 47, 755	BF3126CW600-6V-BP	5/6V	90	300	900	120°	Center Contact Polarity BP = Bipolar AC/DC Replace BF3126/3127 With B3126/3127 for Std. Beam (50°)
	12MB, 756	BF3126CW600-14V-BP	12/14V	30	300	900		
	24MB,	BF3126CW600-24V-BP	24V	15	300	900		
	313,757,1819,1829	BF3127CW600-28V-BP	28V	15	350	1050		
	48MB	BF3127CW600-48V-BP	48V	12	280	840		
	60MB, 1835	BF3127CW600-60V-BP	60V	12	280	840		
	120MB, NE51H	BF3127CW600-120VAC	120VAC	10	230	700		
		BF3127CW600-130V-BP	130V	8	190	560		
		BF3127CW600-240VAC	240VAC	4	90	280		
T3-1/4 (9mm) Miniature Wedge  WF321 T3-1/4 (9mm) Miniature Wedge LED Cluster  WF3127	159,259,555,1995-7	WF321CW600-6V-BP	5/6V	15	60	160	120°	BP = Bipolar AC/DC Replace WF321 With W321 for Std. Beam (50°)
	124,658,2080,936	WF321CW600-14V-BP	12/14V	15	60	160		
	656,657,400,464,655	WF321CW600-24V-BP	24V	15	60	160		
	656,657,400,464,655	WF321CW600-28V-BP	28V	15	60	160		
		WF321CW600-48V-BP	48V	12	48	128		
		WF321CW600-120VAC	120VAC	10	40	106		
		WF321CW600-130V-BP	130V	8	32	85		
	159,259,555,1995-7	WF3126CW600-6V-BP	5/6V	90	300	900		
	124,658,2080,936	WF3126CW600-14V-BP	12/14V	30	300	900		
656,657,400,464,655	WF3126CW600-24V-BP	24V	15	300	900			
656,657,400,464,655	WF3127CW600-28V-BP	28V	15	350	1050			
S6 Candelabra Screw Base  SLF461  SF464 (MOL 1.35)  SLF464  SLF467		SLF461CW600-24V-BP	24V	15	60	160	120°	Center Contact Polarity BP = Bipolar AC/DC Replace BF321 With B321 for Std. Beam (50°)
		SLF461CW600-120VAC	120VAC	10	40	106		
		SLF461CW600-130V-BP	130V	8	32	85		
		SLF461CW600-220VAC	220VAC	4	16	42		
		SLF464CW600-24V-BP	24V	15	240	640		
		SLF464CW600-120VAC	120VAC	10	160	424		
		SLF464CW600-130V-BP	130V	8	128	340		
		SLF464CW600-220VAC	220VAC	4	64	168		
		SLF466CW600-24V-BP	24V	15	360	960		
		SLF467CW600-120VAC	120VAC	10	280	742		
		SLF467CW600-130V-BP	130V	8	224	595		
		SLF467CW600-220VAC	220VAC	4	112	294		

Caution A white LED is sensitive to static electricity and care should be taken in handling it. When an overvoltage is applied, which exceeds the absolute maximum rating of the white LED, its energy damages the LED.

All dimensions in inches. For millimeters multiply by 25.4

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Energy-Efficient Low Cost Snap-In & Hardware Mount 8000K Cool White Panel LED Lamps

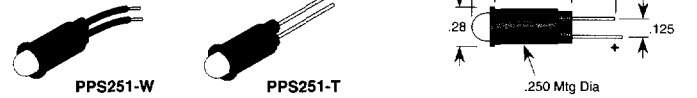
5/32" (4.0mm) Snap-in Panel LED Lamps



Available Voltages: 3.6Vf*, 5/6V, 12/14V, 24V, 28V
Part No. Example: PP156CW900-5V-T (Terminal Type)
PP156CW900-5V-W6 (Wire Leads Type)

See Panel Mount LED Catalog for Details

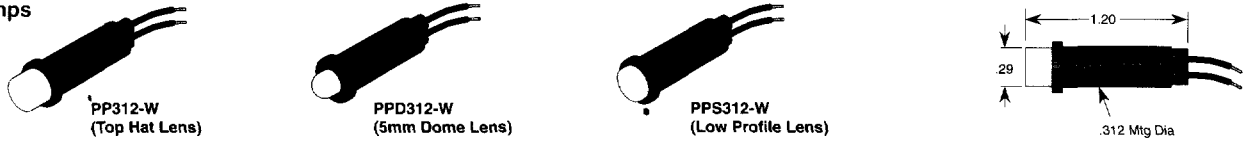
1/4" (6.4mm) Snap-in Panel LED Lamps



Available Voltages: 3.6Vf*, 5/6V, 12/14V, 24V, 28V
Part No. Example: PPS251CW1K-5V-T (Terminal Type)
PPS251CW1K-5V-W6 (Wire Leads Type)

See Panel Mount LED Catalog for Details

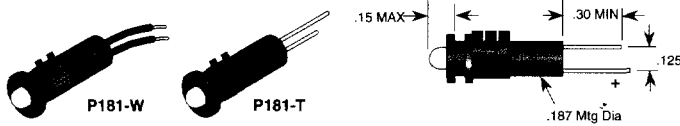
5/16" (8.0mm) Snap-in Panel LED Lamps



Available Voltages: 3.6Vf*, 5/6V, 12/14V, 24V, 28V, 120VAC
Part No. Example: PP312CW1K-5V-W6

See Panel Mount LED Catalog for Details

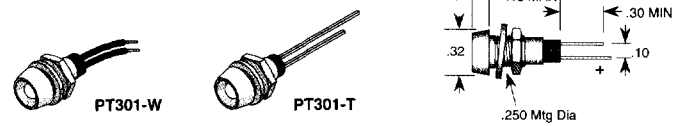
3/16" (4.8mm) Panel LED Lamps with Hardware



Available Voltages: 3.6Vf*, 5/6V, 12/14V, 24V, 28V
Part No. Example: P181CW900-5V-T (Terminal Type)
P181CW900-5V-W6 (Wire Leads Type)

See Panel Mount LED Catalog for Details

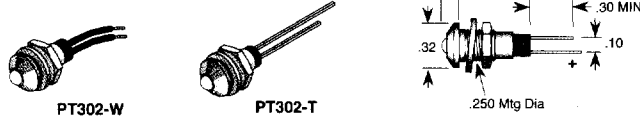
1/4" (6.4mm) Panel LED Lamps with Hardware



Available Voltages: 3.6Vf*, 5/6V, 12/14V, 24V, 28V
Part No. Example: PT301CW900-5V-T (Terminal Type)
PT301CW900-5V-W6 (Wire Leads Type)

See Panel Mount LED Catalog for Details

1/4" (6.4mm) Panel LED Lamps with Hardware



Available Voltages: 3.6Vf*, 5/6V, 12/14V, 24V, 28V
Part No. Example: PT302CW900-5V-T (Terminal Type)
PT302CW900-5V-W6 (Wire Leads Type)

See Panel Mount LED Catalog for Details

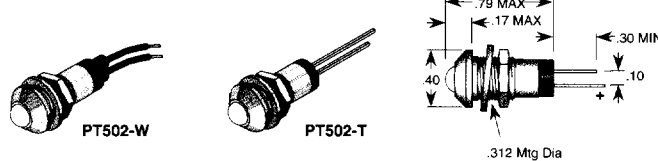
5/16" (8.0mm) Panel LED Lamps with Hardware



Available in Black Housing Available Voltages: 3.6Vf*, 5/6V, 12/14V, 24V, 28V
Part No. Example: PT501CW1K-5V-T (Terminal Type)
PT501CW1K-5V-W6 (Wire Leads Type)

See Panel Mount LED Catalog for Details

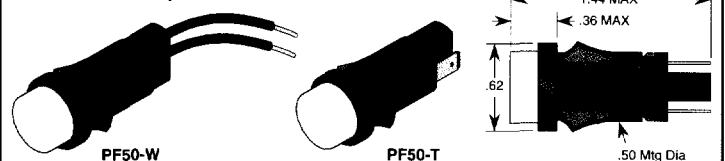
5/16" (8.0mm) Panel LED Lamps with Hardware



Available in Black Housing Available Voltages: 3.6Vf*, 5/6V, 12/14V, 24V, 28V
Part No. Example: PT502CW1K-5V-T (Terminal Type)
PT502CW1K-5V-W6 (Wire Leads Type)

See Panel Mount LED Catalog for Details

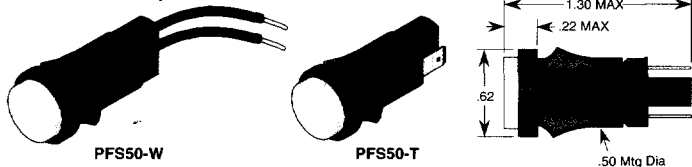
1/2" (12.7mm) Top Hat Lens Snap-in Panel LED Lamps



Available Voltages: 3.6Vf*, 5/6V, 12/14V, 24V, 28V, 120VAC
Part No. Example: PF50CW1K-5V-T (Terminal Type)
PF50CW1K-5V-W6 (Wire Leads Type)

See Panel Mount LED Catalog for Details

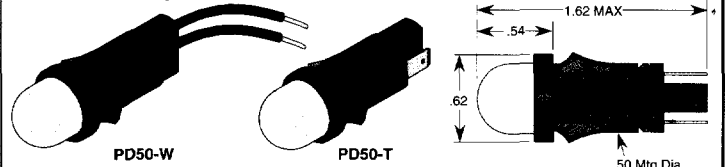
1/2" (12.7mm) Low Profile Lens Snap-in Panel LED Lamps



Available Voltages: 3.6Vf*, 5/6V, 12/14V, 24V, 28V, 120VAC
Part No. Example: PFS50CW1K-5V-T (Terminal Type)
PFS50CW1K-5V-W6 (Wire Leads Type)

See Panel Mount LED Catalog for Details

1/2" (12.7mm) Dome Lens Snap-in Panel LED Lamps



Available Voltages: 3.6Vf*, 5/6V, 12/14V, 24V, 28V, 120VAC
Part No. Example: PD50CW1K-5V-T (Terminal Type)
PD50CW1K-5V-W6 (Wire Leads Type)

See Panel Mount LED Catalog for Details

All dimensions in inches. For millimeters multiply by 25.4

* External resistor required.
Caution A white LED is sensitive to static electricity and care should be taken in handling it. When an overvoltage is applied, which exceeds the absolute maximum rating of the white LED, its energy damages the LED.

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Energy-Efficient Relampable Panel Mount 8000K White Panel LED Lamps

Relampable Panel LED Lamps
5/16" (8.0mm) Mtg. Dia.

See Data Sheet Log# 118 for Details

FF120

Lens Cap Part No.: HL230-WC
Holder Part No.: HLC2020

Available Voltages: 3.6Vf*, 5/6V, 12/14V, 24V, 28V
Assy PN. Example: HLC310CW900-28V-P

Relampable Panel LED Lamps
15/32" (11.7mm) Mtg. Dia.

See Data Sheet Log# 118 for Details

FF200

Lens Cap Part No.: LCF470-CWF
Holder Part No.: MFS470B

Avail. Voltages: 3.6Vf*, 5/6V, 12/14V, 24V, 28V
Assy PN. Example: MFS470CW600-28V-BP

Relampable Panel LED Lamps (Bi-Pin Cartridge) .38" (9.5mm) Mtg. Dia.

CF290 (Top Hat Lens)
CD290 (Dome Lens)
CFS290 (Low Profile Lens)

Lamp PN. Example: CF290CW1K-28V-B
Assy PN. Example: CFS370CW1K-28V-B

Lamp PN. Example: CD290CW1K-28V-B
Assy PN. Example: CSD370CW1K-28V-B

Lamp PN. Example: CFS290CW1K-28V-B
Assy PN. Example: CFS370CW1K-28V-B

Avail. Voltages: 3.6Vf*, 5/6V, 12/14V, 24V, 28V, 120VAC

See Data Sheet Log# 119 for Details

Retainer Part No.: RCS370-B
Lens Cap Part No.: LC370-CWF
Holder Part No.: CFS370-B (Lug Terminal)

Relampable Panel LED Lamps
11/16" (19.8mm) Mtg. Dia.

See Data Sheet Log# 118 for Details

BF321

Avail. Voltages: 3.6Vf*, 5/6V, 12/14V, 24V, 28V, 120VAC, 130V, 240VAC

Lens Cap Part No.: LCF780-CWF
Holder Part No.: BS780

Assy PN. Example: BSF780CW600-28V-BP/S

Relampable Panel LED Lamps
11/16" (19.8mm) Mtg. Dia.

See Data Sheet Log# 118 for Details

LCD780

Avail. Voltages: 3.6Vf*, 5/6V, 12/14V, 24V, 28V, 120VAC, 130V, 240VAC

Lens Cap Part No.: LCD780-CWF
Holder Part No.: BS780

Assy PN. Example: BSD780CW600-28V-BP/S

Relampable Panel LED Lamps
7/8" (22mm) Mtg. Dia.

See Data Sheet Log# 091 for Details

BS850S

Avail. Voltages: 3.6Vf*, 5/6V, 12/14V, 24V, 28V, 120VAC, 130V, 240VAC

Lens Cap Part No.: LCF850-CWF
Holder Part No.: BS850S

Assy PN. Example: BS854CWF-28V-BP

Relampable Panel LED Lamps
5/8" (16mm) Mtg. Dia.

See Data Sheet Log# 013 for Details

RPL16-48
16mm LAMP HOLDER
LED/WHITE Emitter

Avail. Voltages: 3.6Vf*, 5/6V, 12/14V, 24V, 28V, 120VAC, 130V, 240VAC

Lens Cap Part No.: RPLL16-CWF
Holder Part No.: RPLH16-00

Assy PN. Example: RPLH16-01-06-02 (48VDC)

Relampable Panel LED Lamps
7/8" (22mm) Mtg. Dia.

See Data Sheet Log# 013 for Details

RPL22-48
22mm LAMP HOLDER
LED/WHITE Emitter

Avail. Voltages: 3.6Vf*, 5/6V, 12/14V, 24V, 28V, 120VAC, 130V, 240VAC

Lens Cap Part No.: RPLL22-CWF
Holder Part No.: RPLH22-00

Assy PN. Example: RPLH22-01-06-06 (48VDC)

Relampable Panel LED Lamps
1-3/16" (30mm) Mtg. Dia.

See Data Sheet Log# 013 for Details

RPL30-44
30mm LAMP HOLDER
LED/WHITE Emitter

Avail. Voltages: 3.6Vf*, 5/6V, 12/14V, 24V, 28V, 120VAC, 130V, 240VAC

Lens Cap Part No.: RPLL30-CWF
Holder Part No.: RPLH30-00

Assy PN. Example: RPLH30-01-06-06 (48VDC)

All dimensions in inches. For millimeters multiply by 25.4

* External resistor required.
Caution A white LED is sensitive to static electricity and care should be taken in handling it. When an overvoltage is applied, which exceeds the absolute maximum rating of the white LED, its energy damages the LED.

Log # 078G Rev 11-2000

LEDTRONICS, INC.
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Energy-Efficient Direct Incandescent Replacement 8000K White Based LED Lamps

Optional Packages

<p>T3-1/4 (9mm) Miniature Flange LED Lamps</p> <p>See Data Sheet Log# 112 for Details</p> <p>F321 F303</p> <p>Available Voltages: 3.5V, 4.5V, 6V, 7.5V Replaces Incand#: PR3,PR12,PR13,PR18 Part No. Example: F321-OCW-4.5V F303-OCW-4.5V</p>	<p>T3-1/4 (9mm) Miniature Screw LED Lamps</p> <p>SF321</p> <p>Available Voltages: 5/6V, 12/14V, 24V, 28V, 120VAC Replaces Incand#: 407,502,3708,3724,1446,1449,52 Part No. Example: SF321CW600-24V-BP (120° Illumination) S321CW6K-24V-BP (20° Illumination)</p>
<p>T5.5 European Telephone Slide LED Lamps</p> <p>55SBF200</p> <p>Available Voltages: 5/6V, 12/14V, 24V, 28V, 120VAC Part No. Example: 55SBF200CW600-24V (120° Illumination) 55SB200CW6K-24V (20° Illumination)</p>	<p>T6.8 European Telephone Slide LED Lamps</p> <p>68SBF200</p> <p>Available Voltages: 5/6V, 12/14V, 24V, 28V, 120VAC Part No. Example: 68SBF200CW600-24V (120° Illumination) 68SB200CW6K-24V (20° Illumination)</p>
<p>T2 ANSI #5 American Telephone Slide LED Lamps</p> <p>5SBF200</p> <p>Available Voltages: 5/6V, 12/14V, 24V, 28V, 120VAC Part No. Example: 5SBF200CW600-24V (120° Illumination) 5SB200CW6K-24V (20° Illumination)</p>	<p>T2 ANSI #2 & #3 American Telephone Slide LED Lamps</p> <p>2SBF200</p> <p>Available Voltages: 5/6V, 12/14V, 24V, 28V, 120VAC Part No. Example: 2SBF200CW600-24V (120° Illumination) 2SB200CW6K-24V (20° Illumination)</p>
<p>SMT StackLED 15mm DC Bayonet LED Lamps</p> <p>See Data Sheet Log# 015 for Details</p> <p>STL627</p> <p>Available Voltages: 12/14V, 24V, 120VAC, 240VAC Part No. Example: STL627-06-01 (24V, 120° Illumination)</p>	<p>SMT StackLED 9mm Min. Bayonet LED Lamps</p> <p>See Data Sheet Log# 015 for Details</p> <p>STL630</p> <p>Available Voltages: 12/14V, 24V, 120VAC, 240VAC Part No. Example: STL630-06-01 (24V, 120° Illumination)</p>
<p>A19 DecorLED LED Lamps</p> <p>See Data Sheet Log# 060 for Details</p> <p>DEC-A19</p> <p>Available Voltages: 12/14V, 24V, 120VAC, 240AC Part No. Example: DEC-A19-OCW-02 (120VAC, 270° Illumination)</p>	<p>S14 Bulb Edison Base LED Lamps</p> <p>See Intermediate & Medium Based Catalog Page 24 for Details</p> <p>S1030</p> <p>Available Voltages: 12/14V, 24V, 120VAC, 240AC Part No. Example: S1030-OCW-120AN (120VAC, 15° Illumination)</p>

All dimensions in inches. For millimeters multiply by 25.4

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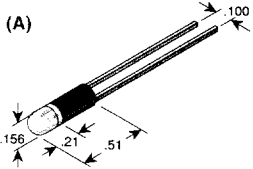
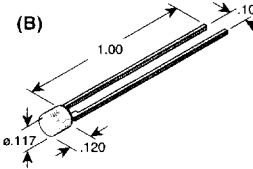
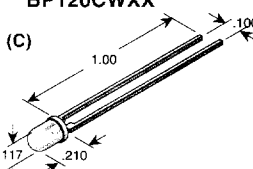
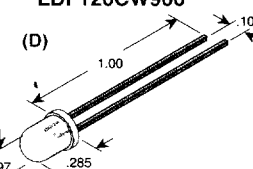
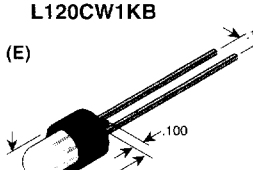
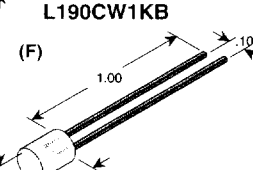
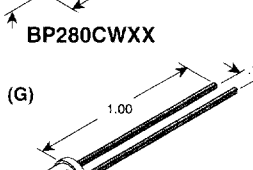
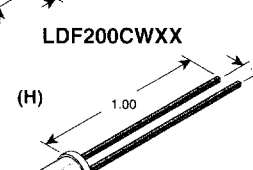
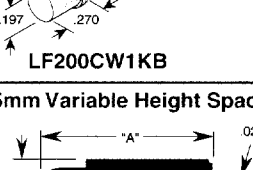
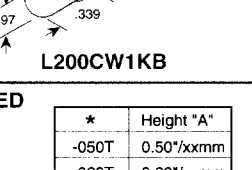
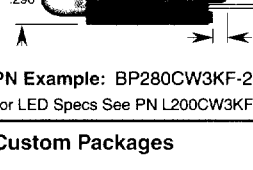
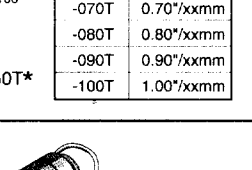
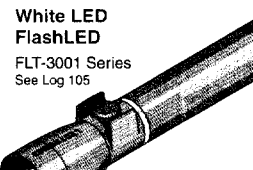
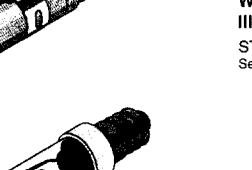
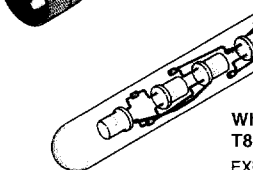

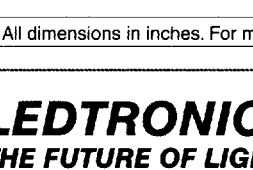
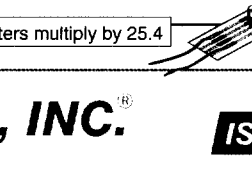


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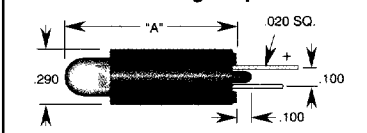
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3mm & 5mm Vertical, Right Angle, Single & Multi-Level 8000K White Discrete & PCB LEDs

Discrete & PCB Packages	Part Number	LED Color	Lens Color	Electrical-Optical Characteristics (Ta = 25°C)			Chromaticity Coordinates typ		View Angle 2θ _{1/2}
				I _f (mA) typ/max	I _v (mcd) typ	V _f (V) typ/max	X	Y	
(A) 	(A) BP120CW900-300	C White	W Clear	20/30	1270	3.6/4.0	0.31	0.32	60°
(B) 	(A) BP120CW2K-300	C White	W Clear	20/30	2000	3.6/4.0	0.31	0.32	25°
(C) 	(B) LDF120CW900-3.6VF	C White	W Clear	20/30	150	3.6/4.0	0.31	0.32	120°
(D) 	(C) L120CW1KB	C White	W Clear	20/30	1200	3.6/4.0	0.31	0.32	35°
(E) 	(D) L190CW1KB-50D	C White	W Clear	20/30	500	3.6/4.2	0.25	0.27	45°
(F) 	(E) BP280CW1K-50D	C White	W Clear	20/30	1100	3.6/4.0	0.31	0.32	50°
(G) 	(E) BP280CW6K-20D	C White	W Clear	20/30	5600	3.6/4.0	0.31	0.32	20°
(H) 	(E) BP280CW2K-20D	Inc White	W Clear	20/30	2000	3.6/4.0	0.45	0.42	20°
(I) 	(E) BP280CPW1K-50D	P White	W Clear	20/30	1100	3.6/4.0	0.35	0.37	50°
(J) 	(F) LDF200CW6K	C White	W Clear	20/30	160	3.6/4.0	0.31	0.32	120°
(K) 	(F) LDF200CPW1K	P White	W Clear	20/30	160	3.6/4.0	0.35	0.37	120°
(L) 	(F) LDF200CW2K	Inc White	W Clear	20/30	80	3.6/4.0	0.45	0.42	120°
(M) 	(G) LF200CW1KB-27	C White	W Clear	20/30	100	3.6/4.2	0.31	0.32	120°
(N) 	(H) L200CW1KB-15D	C White	W Clear	20/30	1000	3.6/4.2	0.25	0.27	15°
(O) 	(H) L200CW2K-15D	C White	W Clear	20/30	2400	3.6/4.2	0.31	0.32	15°
(P) 	(H) L200CW1KB-30D	C White	W Clear	20/30	500	3.6/4.2	0.25	0.27	30°
(Q) 	(H) L200CW2K-30D	C White	W Clear	20/30	1200	3.6/4.2	0.31	0.32	30°
(R) 	(J) SML10CW1KH-TR	C White	W Clear	20/30	55	3.6/4.2	0.31	0.32	140°
(S) 	(K) SML10CW1KT-TR	C White	W Clear	20/30	90	3.6/4.2	0.31	0.32	120°
(T) 	(K) SML10CW2KT-TR	C White	W Clear	20/30	125	3.6/4.2	0.35	0.37	120°
(U)	(L) SPL300CW1KB	C White	W Clear	20/30	250	3.6/4.2	0.31	0.32	60°
(V)	(L) SPL301CW1KB	C White	W Clear	20/30	200	3.6/4.2	0.31	0.32	85°

5mm Variable Height Spacer LED



*	Height "A"
-050T	0.50*/xxmm
-060T	0.60*/xxmm
-070T	0.70*/xxmm
-080T	0.80*/xxmm
-090T	0.90*/xxmm
-100T	1.00*/xxmm

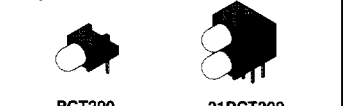
PN Example: BP280CW3KF-2VF-050T*
For LED Specs See PN L200CW3KF Above

T1 (3mm) Right Angle LEDs



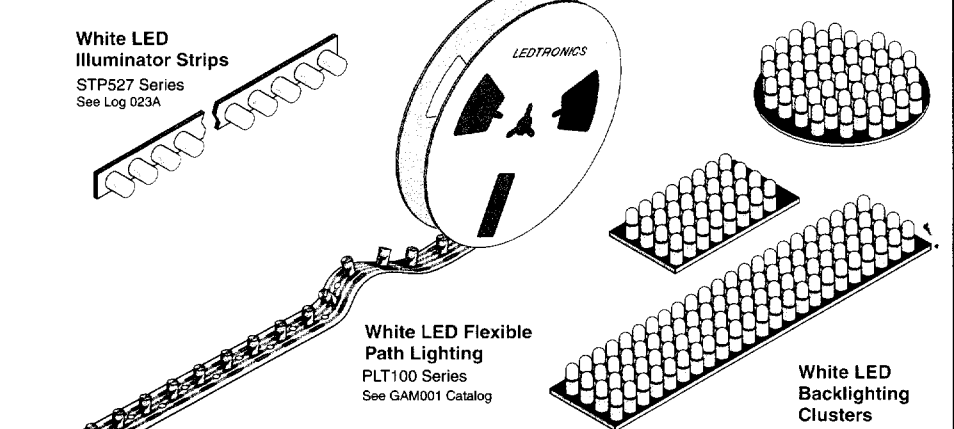
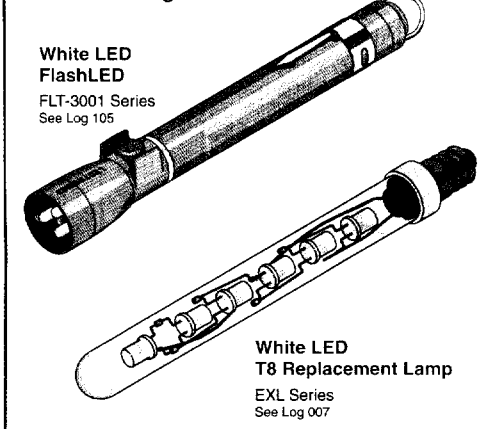
For LED Specs See Part Number LD120CW3KF Above

T1-3/4 (5mm) Right Angle LEDs



For LED Specs See Part Number LD200CW3KF Above

Custom Packages



All dimensions in inches. For millimeters multiply by 25.4

Caution A white LED is sensitive to static electricity and care should be taken in handling it. When an overvoltage is applied, which exceeds the absolute maximum rating of the white LED, its energy damages the LED.

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