

CREE High Power LEDs



LED Lighting

XLAMP ML-E SERIES (CONT.)

Lighting-class performance in a 1/2-watt LED

Features:

- Forward Current (max.): 500mA
- Viewing Angle: 120°

Applications:

- T5/T8 bulbs; fluorescent replacement
- Under-cabinet lighting
- Retail and refrigerated display
- Panel lights



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Cree Part No.	Fig.	Color	CCT/ Wavelength	Luminous Flux. (lm) Typical	Forward Voltage @ 150mA (V)	DC Forward Current (mA)	Price Each		
								1	50	100
941-MLEAWTA1R25003E3	MLEAWT-A1-R250-0003E3	A	Cool White	5000K	45.7	3.2	500	1.28	1.18	.771
941-MLEAWTA1R25004E3	MLEAWT-A1-R250-0004E3	A	Cool White	5000K	51.7	3.2	500	1.45	1.33	.865
941-MLESWTA103E3	MLESWT-A1-0000-0003E3	A	Cool White	5000K	117	3.2	500	.81	.74	.66

Cree

XLAMP XB-D SERIES

48% Smaller footprint than XLamp XP Series

Features:

- Cree's smallest lighting class LED: 2.45 X 2.45 mm
- 1 A maximum drive current
- Low thermal resistance: 6.5 °C/W
- Wide viewing angle: 115°
- Reflow solderable - JEDEC J-STD-020C compatible



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MOUSER STOCK NO.	Cree Part No.	Fig.	Color	CCT Range (K)	Luminous Flux. (lm) Typical	Forward Voltage (VDC)	Forward Current (mA)	Price Each		
								1	50	100
941-XBDAWT0000E51	XBDAWT-00-0000-000000E51	B	Cool White	8300	114	2.2	350	1.60	1.47	.93
941-XBDAWT0000F51	XBDAWT-00-0000-000000F51	B	Cool White	8300	122	2.2	350	1.80	1.66	1.45
941-XBDAWT0000LDE3	XBDAWT-00-0000-000000LDE3	B	Cool White	5000	107	2.2	350	1.59	1.46	1.28
941-XBDAWT0000LAE7	XBDAWT-00-0000-000000LAE7	B	Neutral White	3700	87.4	2.2	350	1.59	1.46	1.28
941-XBDAWT0000LBE7	XBDAWT-00-0000-000000LBE7	B	Neutral White	3700	93.9	2.2	350	1.78	1.64	1.44

XLAMP XP-C SERIES

Combines the proven lighting-class performance and reliability of the XLamp XP-E LED in a package with 80% smaller footprint.

Features:

- Viewing Angle: 110-125°

Applications:

- Portable
- Backlighting
- Signage
- Retail display

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Cree Part No.	Fig.	Color	CCT/ Wavelength	Luminous Flux. (lm) Typical	Forward Voltage (VDC)	Forward Current (mA)	Price Each		
								1	50	100
941-XPCREDL1R250201	XPCRED-L1-R250-00201	C	Red	620-630nm	39.8	2.2	350	2.50	2.31	2.21
941-XPCREDL100401	XPCRED-L1-0000-00401	C	Red	620-630nm	51.7	2.2	350	2.44	2.25	1.97
941-XPCRDOL1R250401	XPCRDOL-L1-R250-00401	C	Red-Orange	610-620nm	51.7	2.2	350	2.50	2.31	2.21
941-XPCRDOL100601	XPCRDOL-L1-0000-00601	C	Red-Orange	610-620nm	62	2.2	350	2.44	2.25	1.97
941-XPCAMBL1R250401	XPCAMB-L1-R250-00401	C	Amber	585-595nm	51.7	2.2	350	3.11	2.87	2.51
941-XPCGRNL1R250801	XPCGRN-L1-R250-00801	C	Green	520-535nm	73.9	2.2	350	3.14	2.89	2.53
941-XPCBLUL1R250V01	XPCBLU-L1-R250-00V01	C	Blue	465-485nm	18.1	3.5	500	3.95	3.64	3.19
941-XPCBLUL100W01	XPCBLU-L1-0000-00W01	C	Blue	465-485nm	23.5	3.5	500	1.99	1.84	1.61
941-XPCROYL1R250801	XPCROY-L1-R250-00801	C	Royal Blue	450-465nm	300mW	3.5	500	3.69	3.40	2.98
941-XPCWHTL1R2506E7	XPCWHT-L1-R250-006E7	C	White	3000K	62	3.5	500	2.01	1.85	1.62
941-XPCWHTL1R250A01	XPCWHT-L1-R250-00A01	C	White	5000-10000K	87.4	3.5	500	2.15	1.98	1.73

XLAMP XP-E SERIES

80% smaller footprint than the X-Lamp XR-E.

Features:

- Viewing Angle: White - 115°
- Viewing Angle: Colored LEDs - 130°

Applications:

- Portable
- LED light bulbs
- Architectural
- Signage
- Retail display
- Transportation
- Emergency vehicle

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Cree Part No.	Fig.	Color	CCT Range (K)	Luminous Flux. (lm) Typical	Forward Voltage (VDC)	Forward Current (mA)	Price Each		
								1	50	100
941-XPEREDL1R250701	XPERED-L1-R250-00701	D	Red	620	51.7	2.3	700	4.00	3.69	3.22
941-XPEREDL1R250801	XPERED-L1-R250-00801	D	Red	620	51.7	2.3	700	4.85	4.48	3.91
941-XPEREDL100401	XPERED-L1-0000-00401	D	Red	620-630nm	51.7	2.3	700	2.73	2.51	2.20
941-XPEREDL1R250401	XPERED-L1-R250-00401	D	Red	620-630nm	51.7	2.3	700	3.69	3.41	2.98
941-XPERDOL1R250901	XPERDOL-L1-R250-00901	D	Red-Orange	610	56.8	2.3	700	4.00	3.69	3.22
941-XPERDOL1R250A01	XPERDOL-L1-R250-00A01	D	Red-Orange	610	56.8	2.3	700	4.85	4.48	3.91
941-XPERDOL1R250501	XPERDOL-L1-R250-00501	D	Red-Orange	610-620nm	56.8	2.3	700	3.27	3.02	2.64
941-XPEAMBL1R250401	XPEAMB-L1-R250-00401	D	Amber	585-595nm	51.7	2.3	500	3.57	3.29	2.88
941-XPEGRNL1R250C01	XPEGRN-L1-R250-00C01	D	Green	520-535nm	100	3.8	1000	5.68	5.23	4.58
941-XPEGRNL100D01	XPEGRN-L1-0000-00D01	D	Green	520-535nm	107	3.8	1000	5.14	4.75	4.15
941-XPEBLUL1R250Y01	XPEBLU-L1-R250-00Y01	D	Blue	465-485nm	30.6	3.5	1000	4.38	4.04	3.53
941-XPEBLUL100Z01	XPEBLU-L1-0000-00Z01	D	Blue	465-485nm	39.8	3.5	1000	4.00	3.69	3.22
941-XPEWHTP1R2506E8	XPEWHT-P1-R250-006E8	D	White	2700K	62	3.5	1000	2.44	2.25	1.97
941-XPEWHTP1R2507E7	XPEWHT-P1-R250-007E7	D	White	3000K	67.2	3.5	1000	2.44	2.25	1.96
941-XPEWHTL1R2508E7	XPEWHT-L1-R250-008E7	D	White	3000K	73.9	3.5	1000	4.56	3.76	3.17
941-XPEWHTL100BE7	XPEWHT-L1-0000-00BE7	D	White	3000K	93.9	3.5	1000	3.57	3.29	2.88
941-XPEWHTL1R250BE6	XPEWHT-L1-R250-00BE6	D	White	3500K	93.9	3.5	1000	3.63	3.35	2.93
941-XPEWHTL1R250AE5	XPEWHT-L1-R250-00AE5	D	White	4000K	87.4	3.5	1000	3.35	3.09	2.70
941-XPEWHTL1R250D01	XPEWHT-L1-R250-00D01	D	Cool White	5000-10000K	107	3.5	1000	3.33	3.07	2.68
941-XPEWHTL1R250E01	XPEWHT-L1-R250-00E01	D	Cool White	5000-10000K	114	3.5	1000	3.64	3.35	2.93

XLAMP XP-G SERIES

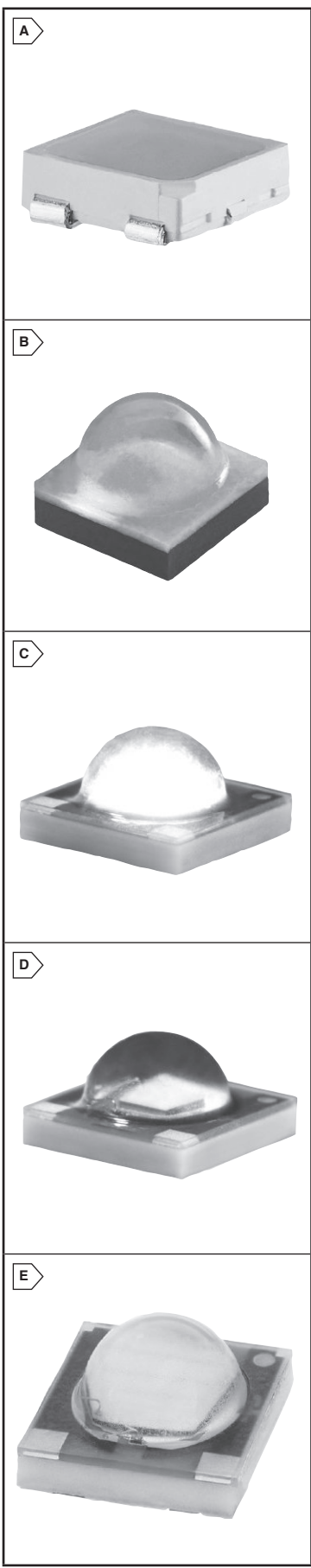
Features:

- Viewing Angle: 125°



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MOUSER STOCK NO.	Cree Part No.	Fig.	Color	CCT Range (K)	Luminous Flux. (lm) Typical	Forward Voltage (VDC)	Forward Current (mA)	Price Each		
								1	50	100
941-XPGWHTP1R2508E8	XPGWHT-P1-R250-008E8	E	85-CRI White	2700	73.9	3	350	5.15	4.75	4.15
941-XPGWHTL1R2500DE8	XPGWHT-L1-R250-00DE8	E	Warm White	2700	107	3	350	7.54	6.95	6.09
941-XPGWHTP1R2509E7	XPGWHT-P1-R250-009E7	E	85-CRI White	3000	87.4	3	350	4.86	4.48	3.92
941-XPGWHTL100BE8	XPGWHT-L1-0000-00BE8	E	Warm White	2700	93.9	3	350	5.88	5.42	4.74
941-XPGWHTL100CE7	XPGWHT-L1-0000-00CE7	E	Warm White	3000	100	3	350	5.72	5.28	4.62
941-XPGWHTL1R2500EE7	XPGWHT-L1-R250-00EE7	E	Warm White	3000	114	3	350	7.54	6.95	6.09
941-XPGWHT0100EE5	XPGWHT-01-0000-00EE5	E	Neutral White	4000	114	3	350	5.43	5.01	4.38
941-XPGWHT01R2500GC3	XPGWHT-01-R250-00GC3	E	Neutral White	4300	130	3	350	7.87	7.27	6.36
941-XPGWHT01R2500GC2	XPGWHT-01-R250-00GC2	E	Neutral White	4500	130	3	350	7.87	7.27	6.36
941-XPGWHT0100FE3	XPGWHT-01-0000-00FE3	E	Neutral White	5000	122	3	350	6.01	5.54	4.85
941-XPGWHT01R2500GC1	XPGWHT-01-R250-00GC1	E	Cool White	5000	130	3	350	7.87	7.27	6.36
941-XPGWHTL100E51	XPGWHT-L1-0000-00E51	E	Cool White	5000-8300	114	3	350	5.72	5.28	4.62
941-XPGWHTL100F53	XPGWHT-L1-0000-00F53	E	Cool White	5000-8300	122	3	350	4.58	4.22	3.69
941-XPGWHTL100G51	XPGWHT-L1-0000-00G51	E	Cool White	5000-8300	130	3	350	5.43	5.01	4.38
941-XPGWHTL100G53	XPGWHT-L1-0000-00G53	E	Cool White	5000-8300	130	3	350	5.59	5.16	4.51
941-XPGWHTL100H53	XPGWHT-L1-0000-00H53	E	Cool White	5000-8300	139	3	350	7.02	6.48	5.67
941-XPGWBWL1R2500F51	XPGWBWL-L1-R250-00F51	E	Cool White	8300	122	2.9	700	3.52	2.85	2.59
941-XPGWBWL1R2500G51	XPGWBWL-L1-R250-00G51	E	Cool White	8300	130	2.9	700	3.86	3.12	2.83
941-XPGWBWL1R2500H51	XPGWBWL-L1-R250-00H51	E	Cool White	8300	139	2.9	700	5.18	4.18	3.80



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