

Surface Mount LEDs

Chicago Miniature's unique vertically integrated facilities can construct optical light pipe solutions to your most demanding challenge. Standard modules range from simulation of a 1 LED up to 12 lights wide with custom applications

CMD11-21 Series SMT LEDs

Surface Mount Technology

- Tape and Reel Packaged for High-Speed Autoinsertion
- Convection and Vapor-Phase Reflow Compatible
- Compact Form Enables High Density Placement
- Industry Standard 1206 Package

Leading Edge LED Optoelectronic Performance

- Consistent High Brightness
- Integral Lensing for Narrow Angle Light Dispersion
- Bi-Color Available
- Ideal for Use with Chicago Miniature Bright Pipe Optical Light Pipes

Exceptional Reliability

- Stringent Process Controls Assure Quality
- Extensive Qualification Testing to Meet Strictest Requirements
- Designed to Permit Easy Post-Reflow Solder Joint Inspection

Stock No.	Mfr.'s Type	Emitted Color	Lens Color	Package Type	Lum. Intensity		Fwd. Volt.		EACH*	
					Typ. mcd	mA	Typ.	mA	1-9	10-99
749-2102	CMD11-21VGC/TR8	Green	Clear	Single	7.5	20	2.1	20	.41	.35
749-2103	CMD11-21VVC/TR8	Clear	Clear	Single	6.0	20	2.0	20	.41	.35
749-2104	CMD11-21VRC/TR8	Red	Clear	Single	6.0	20	2.0	20	.41	.35
749-2105	CMD11-21SRC/TR8	Red	Clear	Single	17.0	20	1.7	20	.48	.42

*Also available in full reel quantities.

CMD12-21 Series SMT LEDs Right Angle Surface Mount LED Lamps

Surface Mount Technology

- Tape and Reel Packaged for High-Speed Autoinsertion
- Convection and Vapor-Phase Reflow Compatible
- Compact Form Enables High Density Placement
- Right Angle Mount Ability

Leading Edge LED Optoelectronic Performance

- Consistent High Brightness
- Ideal for Use with Chicago Miniature Bright Pipe Optical Light Pipes

Exceptional Reliability

- Stringent Process Controls Assure Quality
- Extensive Qualification Testing to Meet Strictest Requirements
- Designed to Permit Easy Post-Reflow Solder Joint Inspection

Stock No.	Mfr.'s Type	Emitted Color	Lens Color	Package Type	Lum. Intensity		Forward Voltage		EACH*		
					Typ. mcd	mA	Typ.	Max.	mA	1-9	10-99
749-2106	CMD12-21SRC/TR8	Red	Clear	Single	12.4	20	1.7	2.4	20	.59	.50
749-2107	CMD12-21VRC/TR8	H.E. Red	Clear	Single	5.0	20	2.0	2.8	20	.46	.39
749-2108	CMD12-21VVC/TR8	Yellow	Clear	Single	3.0	20	2.0	2.8	20	.46	.39
749-2109	CMD12-21VGC/TR8	Green	Clear	Single	8.8	20	2.1	2.8	20	.46	.40
749-2110	CMD12-21UGC/TR8	Green	Clear	Single	14.9	20	2.1	2.8	20	3.33	2.72

*Also available in full reel quantities.

CMD17-21 Series SMT LEDs

Surface Mount Technology

- Tape and Reel Packaged for High-Speed Autoinsertion
- Convection and Vapor-Phase Reflow Compatible
- Compact Form Enables High Density Placement
- Industry Standard 0805 Package

Leading Edge LED Optoelectronic Performance

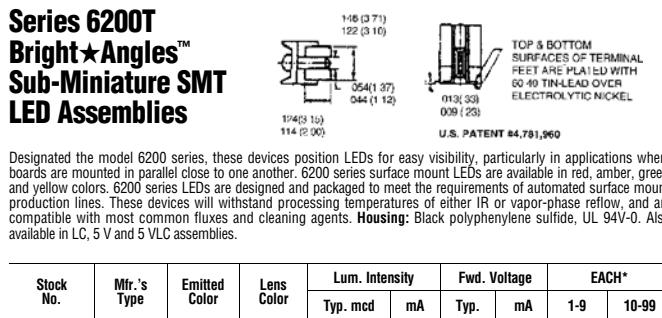
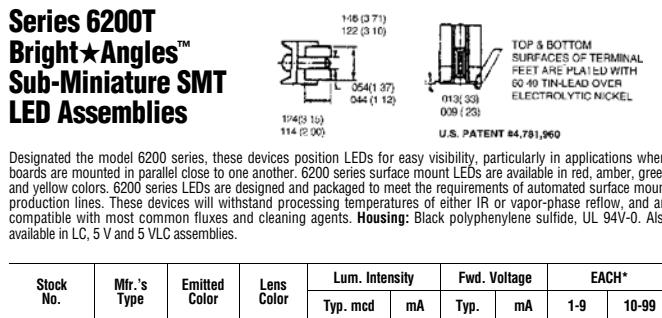
- Consistent High Brightness
- Ideal for Use with Chicago Miniature Bright Pipe Optical Light Pipes

Exceptional Reliability

- Stringent Process Controls Assure Quality
- Extensive Qualification Testing to Meet Strictest Requirements
- Permits Easy Post-Reflow Solder Joint Inspection

Stock No.	Mfr.'s Type	Emitted Color	Lens Color	Package Type	Lum. Intensity		Forward Voltage		EACH*		
					Typ. mcd	mA	Typ.	Max.	mA	1-9	10-99
749-2106	CMD12-21SRC/TR8	Red	Clear	Single	12.4	20	1.7	2.4	20	.59	.50
749-2107	CMD12-21VRC/TR8	H.E. Red	Clear	Single	5.0	20	2.0	2.8	20	.46	.39
749-2108	CMD12-21VVC/TR8	Yellow	Clear	Single	3.0	20	2.0	2.8	20	.46	.39
749-2109	CMD12-21VGC/TR8	Green	Clear	Single	8.8	20	2.1	2.8	20	.46	.40
749-2110	CMD12-21UGC/TR8	Green	Clear	Single	14.9	20	2.1	2.8	20	3.33	2.72

*Also available in full reel quantities.



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Series 6200T Bright★Angles™ Sub-Miniature SMT LED Assemblies

Surface Mount Technology

- Tape and Reel Packaged for High-Speed Autoinsertion
- Convection and Vapor-Phase Reflow Compatible
- Compact Form Enables High Density Placement
- Industry Standard 0805 Package

Leading Edge LED Optoelectronic Performance

- Consistent High Brightness
- Ideal for Use with Chicago Miniature Bright Pipe Optical Light Pipes

Exceptional Reliability

- Stringent Process Controls Assure Quality
- Extensive Qualification Testing to Meet Strictest Requirements
- Permits Easy Post-Reflow Solder Joint Inspection

Stock No.	Mfr.'s Type	Emitted Color	Lens Color	Lum. Intensity		Fwd. Voltage		EACH*	
				Typ. mcd	mA	Typ.	mA	1-9	10-99
749-2000	6200T1	Red	Red	5.0	10	2.2	10	1.35	1.19
749-2001	6200T3	Amber	Amber	5.0	10	2.0	10	1.35	1.19
749-2002	6200T5	Green	Green	4.0	10	2.3	10	1.35	1.19
749-2003	6200T7	Yellow	Yellow	3.8	10	2.2	10	1.35	1.19

*Also available in full reel quantities.

For Fast, Dependable Service, Make Just One Call — 1-800-433-5700

ALLIED ► 535



*Also available in full reel quantities.

CMD15-21 Series SMT LEDs

Surface Mount Technology

- Tape and Reel Packaged for High-Speed Autoinsertion
- Convection and Vapor-Phase Reflow Compatible
- Compact Form Enables High Density Placement
- Industry Standard 1206 Package

Leading Edge LED Optoelectronic Performance

- Consistent High Brightness
- Clear and Diffused Lenses
- Bi-Color Available
- Ideal for Use with Chicago Miniature Bright Pipe Optical Light Pipes

Exceptional Reliability

- Stringent Process Controls Assure Quality
- Extensive Qualification Testing to Meet Strictest Requirements
- Designed to Permit Easy Post-Reflow Solder Joint Inspection

Stock No.	Mfr.'s Type	Emitted Color	Lens Color	Lum. Intensity		Fwd. Volt.		EACH*	
				Typ. mcd	mA	Typ.	mA	1-9	10-99
749-2014	CMD15-21SRC/TR8	Super Red	Clear	15.0	20	1.7	20	.43	.38
749-20									