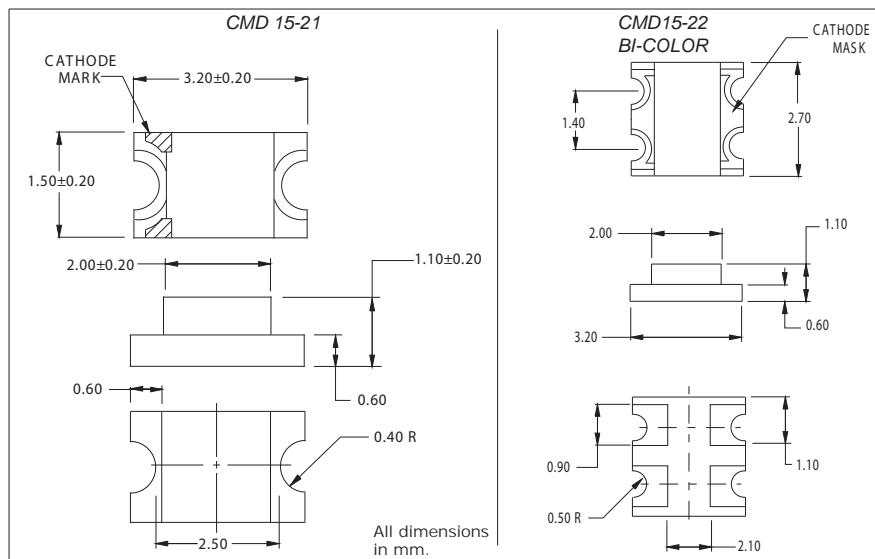




## CMD15-21 & 22 Series SMT LEDs 1206 Package Size

### DESCRIPTION AND FEATURES



#### Surface Mount Technology

- Tape and reel packaged for high-speed autoinsertion.
- Convection and vapor-phase reflow compatible.
- Compact form enables high density placement.
- Packaged 2000 pieces per reel.

#### Leading Edge LED Optoelectronic Performance

- Consistent high brightness.
- Integral lensing for narrow angle light dispersion.
- Bi-color available.

#### Exceptional Reliability

- Stringent process controls assure quality.
- Extensive qualification testing to meet strictest requirements.
- Designed to permit easy post-reflow solder joint inspection.
- Solder pad geometry on page 1-X2.

### ELECTRO-OPTICAL CHARACTERISTICS

Part Number	Emitted Color	Lens Color	Luminous Intensity		Forward Voltage		Test Current (mA)	Peak Wavelength (nm)
			Min. (mcd)	Typ. (mcd)	Typ. (V)	Max. (V)		
CMD15-21SRC/TR8	Super Red	Clear	6.0	15.0	1.7	2.4	20	660
CMD15-21VRC/TR8	H.E. Red	Clear	3.6	6.0	2.0	2.8	20	640
CMD15-21VYC/TR8	Yellow	Clear	3.6	6.0	2.0	2.8	20	585
CMD15-21VGC/TR8	Green	Clear	6.0	10.0	2.1	2.8	20	570
CMD15-21UBC/TR8	Blue	Clear	19.0	45.0	4.9	5.5	20	430
CMD15-21UGC/TR8	Green	Clear	7.0	12.0	2.1	2.8	20	565
CMD15-21VRD/TR8	H.E. Red	Red Diffused	2.4	4.0	2.0	2.8	20	640
CMD15-21VGD/TR8	Clear	Green Diffused	5.5	6.5	2.1	2.8	20	570
CMD15-21VYD/TR8	Clear	Yellow Diffused	3.7	4.0	2.0	2.8	20	585
CMD15-21UYC/TR8	Super Yellow	Clear	27.0	47.0	2.1	2.8	20	590
CMD15-21USOC/TR8	Sunset orange	Clear	17.0	31.0	2.1	2.8	20	620
CMD15-22VRVGC/TR8	H.E. Red	Clear	3.6	20.0	2.8	2.8	20	640
	Green	Clear	6.0	10.0	2.1	2.8	20	570
CMD15-22SRUGC/TR8	Red	Clear	9.0	15.0	1.7	2.4	20	660
	Green	Clear	7.0	12.0	2.1	2.8	20	565

### ABSOLUTE MAXIMUM RATINGS

	Green	H.E.Red	Yellow	Red	Units
Power Dissipation.....	105	105	105	100	mW
Storage/Operating Temperature.....	-40 to +85	-40 to +85	-40 to +85	-40 to +85	°C
Peak Forward Current (1µs @ 10% duty cycle).....	150	150	150	150	mA
Reverse Voltage (IR=100µA).....	5.0	5.0	5.0	5.0	V
Lead Solder Time @ 260°C.....	5	5	5	5	Seconds
Average Forward Current.....	25	30	30	30	mA

Chicago Miniature Lamp reserves the right to make specification revisions that enhance the design and/or performance of the product