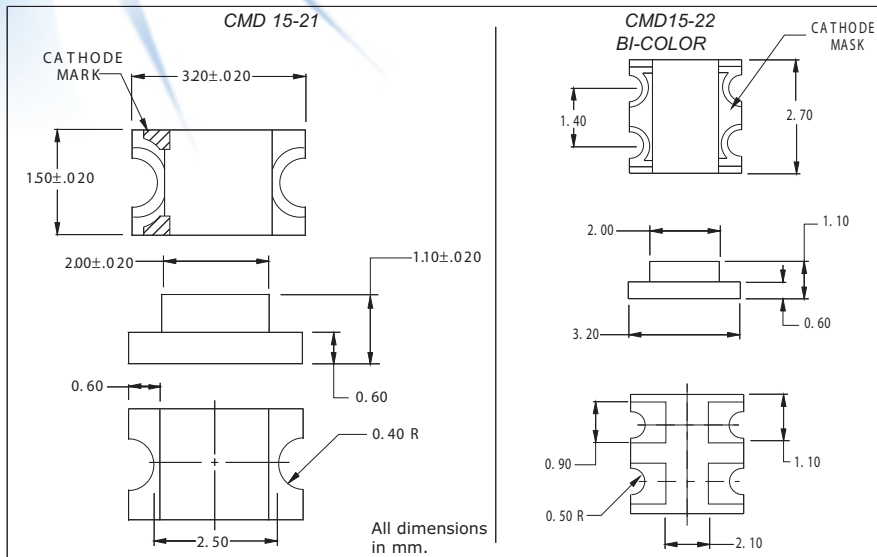


**CMD15-21 & 22 Series SMT LEDs 1206 Package Size**

**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)		
CM D15-21S RC /TR 8	Super Red	Clear	6.0	15.0	1.7	2.4	20	660
CM D15-21V RC /TR 8	H.E.Red	Clear	3.6	6.0	2.0	2.8	20	640
CM D15-21V YC /TR 8	Yellow	Clear	3.6	6.0	2.0	2.8	20	585
CM D15-21V GC /TR 8	Green	Clear	6.0	10.0	2.1	2.8	20	570
CM D15-21U BC /TR 8	Blue	Clear	19.0	45.0	4.9	5.5	20	430
CM D15-21U GC /TR 8	Green	Clear	7.0	12.0	2.1	2.8	20	565
CM D15-21V RD /TR 8	H.E.Red	Red Diffused	2.4	4.0	2.0	2.8	20	640
CM D15-21V GD /TR 8	Clear	Green Diffused	5.5	6.5	2.1	2.8	20	570
CM D15-21V YD /TR 8	Clear	Yellow Diffused	3.7	4.0	2.0	2.8	20	585
CM D15-21U YC /TR 8	Super Yellow	Clear	27.0	47.0	2.1	2.8	20	590
CM D1521U SOC/TR 8	Sunset orange	Clear	17.0	31.0	2.1	2.8	20	620
CM D1522V RVGC/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
CM D15-22S RUG C/TR 8	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