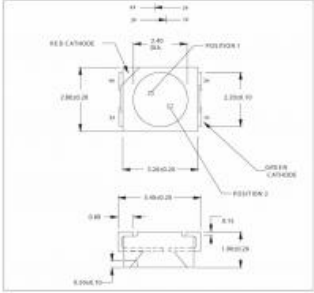


## Products

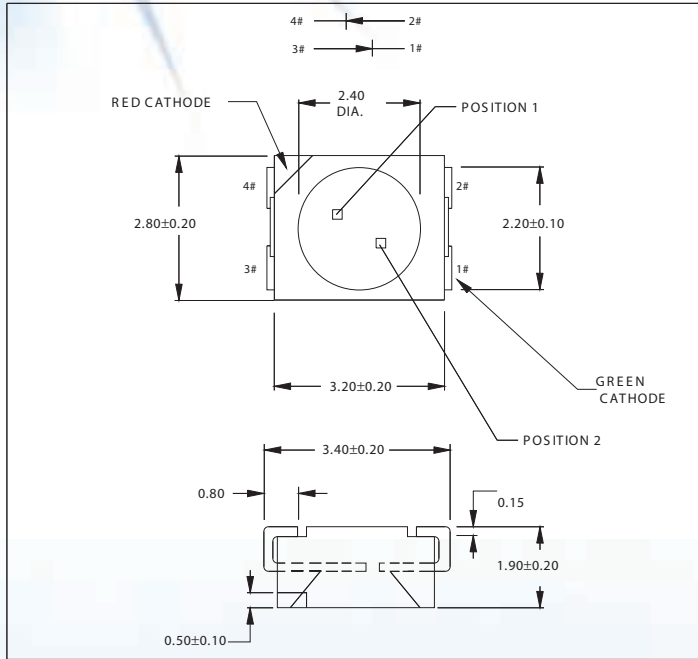
### LEDs

CML IT is a world leader in the manufacturing of LEDs and LED assemblies. CML offers a wide variety of products utilizing LEDs as a light source. Our line of discrete LEDs consists of both through hole and SMT products in all of the standard industry sizes including 3mm, 5mm, 0603, 0805, 1206, PLCC and any others. All CML-IT LEDs are available off-the-shelf in a wide variety of colors and intensities. Binning for through LEDs is one competitive service of CML Innovative Technologies, please contact us.

 <p>The technical drawing shows two views of the LED. The top view is a square with a central circular lens. Dimensions include a total width of 3.20 mm, a lens diameter of 2.40 mm, and a distance of 0.20 mm from the lens center to the top edge. Labels include 'RED EPIWAX', 'POSITION 1', 'OPEN IN CHANGES', and 'POSITION 2'. The side view shows a height of 1.90 mm and a base width of 3.20 mm.</p>	<p><b>Part Number:</b> CMD67-21URC/TR8  <b>Serial Number:</b> CMD67  <b>LED Type:</b> SMT  <b>Industry Size:</b> Top LED  <b>Metric Size:</b> 3.2 x 2.8 x 1.9 mm  <b>Output Color:</b> RED  <b>Epoxy:</b> CLEAR  <b>Peak Wave length (mA):</b> 660  <b>Minimum MCD:</b> 36  <b>Typical MCD:</b> 62  <b>Forward Volt (Typical):</b> 1.7  <b>Forward Volt (Max):</b> 2.4  <b>Rate Current (mA):</b> 20  <b>Viewing Angle (°):</b> 120  <b>Operating Temperature:</b>  <b>Storage Temperature:</b>  <b>Power Dissipation:</b> 100  <b>Cont Forward Current Max:</b> 30  <b>RoHS Status:</b> Yes</p>
--	--

**CMD67-21 SERIES SMT LEDs**

**DESCRIPTION AND FEATURES**



**Surface Mount Technology**

- Tape and reel packaged for high-speed autoinsertion.
- Convection and vapor-phase eflow 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-X1.

**ELECTRO-OPTICAL CHARACTERISTICS AND RATINGS**

Part Number	Emitted Color	Lens Color	Luminous Intensity		Forward Voltage		Polarity Mark Indicates	Peak Wavelength (nm)	View Angle (degrees)
			Min. (mcd)	Typ. (mcd)	Typ. (V)	Max. (V)			
CMD67-21VGC/TR8	Green	Clear	15.0	25.0	2.1	2.8	Cathode	570	120
CMD67-21VYC/TR8	Yellow	Clear	6.0	10.0	2.0	2.8	Cathode	585	120
CMD67-21VRC/TR8	H.E. Red	Clear	6.0	10.0	2.0	2.8	Cathode	640	120
CMD67-21SRC/TR8	Bright Red	Clear	25.0	40.0	1.7	2.4	Anode	660	120
CMD67-21URC/TR8	Bright Red	Clear	36.0	62.0	1.7	2.4	Anode	660	120
CMD67-21UBC/TR8	Blue	Clear	59.0	98.0	4.5	5.5	Cathode	430	120
CMD67-21UYC/TR8	Super Yellow	Clear	65.0	85.0	2.1	2.8	Cathode	590	120
CMD67-21USOC/TR8	Super Orange	Clear	70.0	90.0	2.1	2.8	Cathode	620	120

**ABSOLUTE MAXIMUM RATINGS**

	Green	H.E.Red	Yellow	Bright Red	Red Units
Power Dissipation.....	105	120	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