



**Products**

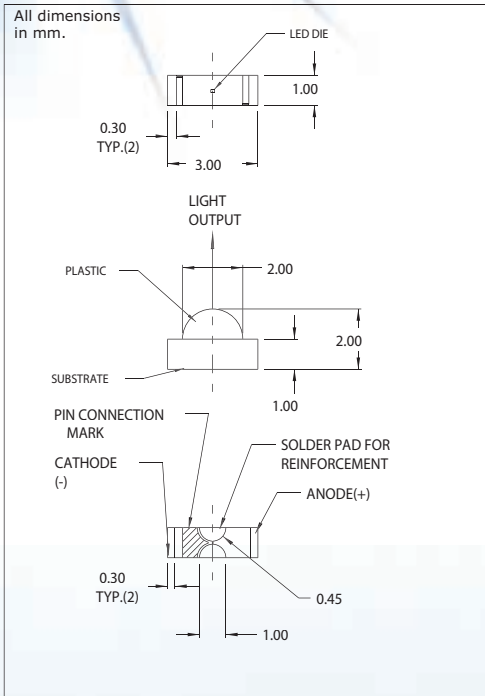
**LEDs**

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><b>Part Number:</b> CMD11504PG  <b>Serial Number:</b> CMD11504  <b>LED Type:</b> SMT  <b>Industry Size:</b> Right Angle  <b>Metric Size:</b> 3.0 x 1.0 x 2.0 mm  <b>Output Color:</b> GREEN  <b>Epoxy:</b> CLEAR  <b>Peak Wave length (nm):</b> 555  <b>Minimum MCD:</b> 1.2  <b>Typical MCD:</b> 2.4  <b>Forward Volt (Typical):</b> 2.1  <b>Forward Volt (Max):</b> 2.8  <b>Rate Current (mA):</b> 20  <b>Viewing Angle (°):</b> 90  <b>Operating Temperature:</b> -0.352941176  <b>Storage Temperature:</b> -0.4  <b>Power Dissipation:</b> 70  <b>Cont Forward Current Max:</b> 60  <b>RoHS Status:</b> Yes</p>
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**CMD11504 Series Bright★Angle™ Right Angle Surface Mount LED**

**DESCRIPTION AND FEATURES**



- Available in Red, Orange, Yellow, Green and Pure Green.
- Right angle mounting.
- Compact size: 3.00mm x 1.00mm x 2.00mm
- High brightness

**Surface Mount Technology**

- Tape and reel packaged for high-speed autoinsertion.
- Convection and vapor-phase reflow compatible.
- Compact form enables high density placement.
- Packaged 3000 pieces per reel.

**Leading Edge LED Optoelectronic Performance**

- Consistent high brightness.

**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 AND RATINGS**

Part Number	Source (Dice)	Package Color	Luminous Intensity @20ma		Forward Voltage		Viewing Angle (degrees)	Peak Wavelength (nm)
			Min. (mcd)	Typ. (mcd)	Typ. (V)	Max. (V)		
CMD11504UR	Red	Water Clear	6.6	13.2	1.7	2.0	100	660
CMD11504FR	Red	Water Clear	16.0	50.0	1.9	2.4	65	630
CMD11504A	Orange	Water Clear	1.6	3.2	2.2	2.5	100	605
CMD11504Y	Yellow	Water Clear	1.6	3.2	2.2	2.5	100	580
CMD11504FY	Yellow	Water Clear	16.0	65.0	1.9	2.4	65	592
CMD11504G	Green	Water Clear	3.0	16.0	2.1	2.5	100	560
CMD11504PG	Pure Green	Water Clear	1.3	2.6	2.1	2.5	100	555
CMD11504FA	Orange	Water Clear	16.0	65.0	1.9	2.4	65	560