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PL16 Series 5mm (T1¾) Full Color (RGB) LED

Features

- *Popular 5mm Lens Style with Flange
- *Four Leads with Common Cathode
- *Water Clear Lens for High Light Output
- *1.27mm (0.05") lead spacing
- *Hyper Red, Pure Green and Blue Chips used (RGB)
- *RoHS Compliant

Absolute Maximum Ratings at T_A = 25°C

Power Dissipation (Red).....	72mW
Power Dissipation (Green & Blue).....	80mW
Reverse Voltage (<100µA)	5.0V
Max Forward Current	30mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100mA
Operating Temperature Range	- 25°C to +85°C
Storage Temperature Range	- 40°C to +100°C
Soldering Temperature (1.6mm below body)	260°C for 5 seconds
Electrostatic Discharge (Green & Blue).....	300V

Electrical & Optical Characteristics at T_A = 25°C

Part Number	Emitting Color	Chip Material	Peak Wave Length	Dominant Wave Length	Viewing Angle 2θ ½	Forward Voltage @20mA (V)		Luminous Intensity @20mA (mcd)	
						Typ	Max	Min	Typ
Water Clear Lens			nm	nm	Deg				
PL16N-WDRGB190602	Red	AlGaInP	639	630	40°	1.9	2.4	250	450
	Pure Green	InGaN	—	520		3.2	4.0	550	950
	Blue	InGaN	468	470		3.2	4.0	300	500

All dimensions are in **Millimeters**. Tolerance is ± 0.25mm unless otherwise specified. An epoxy meniscus may extend about 1mm down the leads.

