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VLMRGB1500 Multi SMD Chip RGB LED in 0404 Package

Provides Independent Control of Red, True Green, and Blue Chips for Wide Color Range

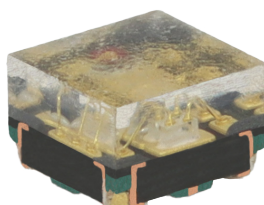
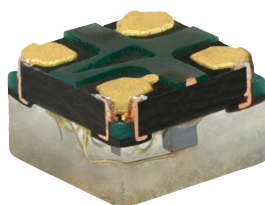


ADVANTAGE

Enables every color within the gamut triangle inside the CIE 1931 color space and delivers luminous intensity to 252 mcd at 5 mA

KEY PRODUCT FEATURES

- ✓ Utilizes the latest high brightness AlInGaP and InGaN technologies
- ✓ High reliability over a temperature range from -40 °C to +85 °C
- ✓ Compact 0404 SMD package (1.0 mm x 1.0 mm x 0.65 mm)
- ✓ 70 % smaller than the PLCC-4
- ✓ Categorized per reel for luminous intensity and color
- ✓ Compatible with IR reflow soldering



RESOURCES



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MARKETS AND APPLICATIONS



CONNECTIVITY

- Telecom fixed / mobile infrastructure
- Telecom mobile devices



CONSUMER

- Entertainment and appliances
- Health and care



MOBILITY

- Micro mobility and transportation
- Agricultural equipment



ENERGY SECTOR

- Generation and exploration
- Distribution and management
- Storage



INDUSTRIAL

- Automation and infrastructure
- Drives and tools
- Home and building controls



COMPUTER

- Computers and peripherals



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ADDITIONAL BENEFITS

- Featuring common anode and separate cathode connections for the red, true green, and blue LED chips inside its 0404 SMD package
- Fully compatible with competing devices, enabling a direct replacement without requiring modifications to the PCB layout or driving circuitry
- Withstands ESD voltages up to 2 kV for red and 1 kV for blue and green in accordance with JESD22-A114-B

DEVICE SPECIFICATION TABLE

Color	Red		True green		Blue	
	Min.	Max.	Min.	Max.	Min.	Max.
Luminous intensity (mcd) at $I_F = 5$ mA	26	54	122	252	22	46
Wavelength (nm) at $I_F = 5$ mA	615	625	520	530	466	473
Forward voltage (V) at $I_F = 5$ mA	1.5	2.15	2	3.2	2	3.2
Angle of half intensity (°)	± 60					
Technology	AlInGaP		InGaN		InGaN	