



High Reliability Ultrabright ChipLEDs

SMALL BUT EXTRAORDINARILY EFFICIENT

FEATURES: 0603 L/F-BASED:

- High reliability, **lead frame** based
- Temperature range **from -40 °C to +100 °C**
- Preconditioning according to **JEDEC® level 2**
- AllInGaP technology** with exceptional brightness
- Viewing angle: **extremely wide 160°**
- Compatible to **IR reflow** soldering

APPLICATIONS

- Displays for industrial control systems
- Switch illumination
- Indicators



TLM*110x ... standard
TLM*100x ... low current



FEATURES: 0402 PCB-BASED

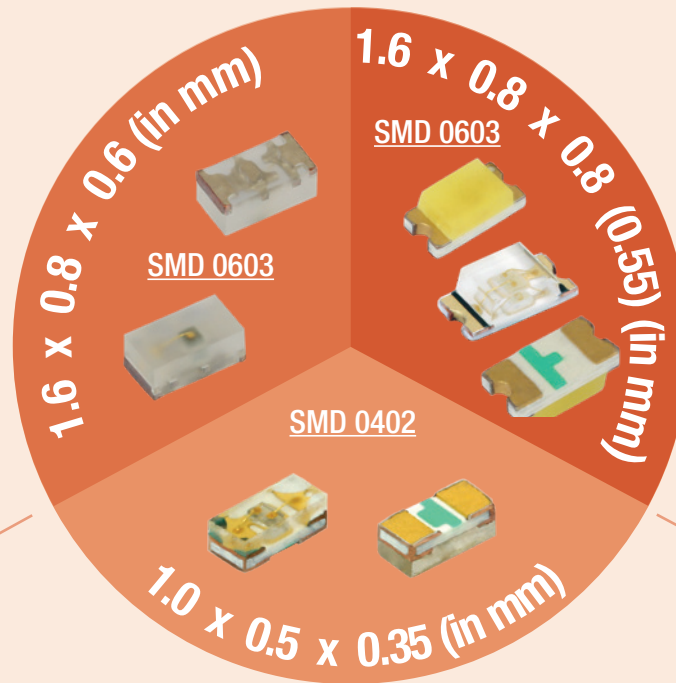
- High reliability, **PCB-based**
- AllInGaP and InGaN technology**
- Viewing angle: **extremely wide 130°**
- Grouping parameter: luminous intensity, wavelength (except super red and soft orange), V_f
- Compatible to **IR reflow soldering**
- Preconditioning according to **JEDEC® level 2a**

VLM*150..



APPLICATIONS

- Indicators
- Switch illumination
- Miniaturized color effects



FEATURES: 0603 PCB-BASED:

- High reliability, **PCB-based**
- AllInGaP and InGaN technology** with exceptional brightness
- Viewing angle: **extremely wide 130°**
- Preconditioning according to **JEDEC® level 3**
- Compatible to **IR reflow** soldering

APPLICATIONS

- Wearables
- Backlighting
- Indicators

VLM*13.. / VLMTG14..



For technical questions: LED@vishay.com