



**Product Group:** Vishay Semiconductors, Opto

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The information below is also available in PDF format which can be read in Adobe® Acrobat® by clicking on this link:  
[http://www.vishay.com/marcom/hn/npi/npi\\_tlcx510x.pdf](http://www.vishay.com/marcom/hn/npi/npi_tlcx510x.pdf)

To access the product datasheets on the Vishay Web site, go to:

<http://www.vishay.com/doc?84619> (TLCx510x)

<http://www.vishay.com/doc?83222> (TLCW5100)

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## Ultrabright 5 mm LED Family now available in 10 Color's



The TLCx510x is the continuation for the new 5mm Product Line

### The News:

The new additional Color's Super-Red, Soft Orange, Yellow Green, Pure Green and Blue-Green, are designed in addition to the Red, Yellow, True-Green, White and Blue Ultrabright TLC. 510. Family in the 5mm package form.

The TLC . 51.. series is a clear, non diffused 5mm LED for high end applications with 18° emission angle. These lamps with clear untinted plastic case utilize the high brightness AllnGaP(TLCS/R/O/Y/YG/PG/BG) and InGaN (TLCTG/B/W)

Product	Color	Iv / mcd @ IF = 50 mA (typ.)	Dominant Wavelength/nm IF = 50 mA (typ.)	+/- Angle of Half Intensity
TLCS5100	Super-Red	7500	630	9°
TLCR5100	Red	12000	616	9°
TLCO5100	Soft-Orange	12000	605	9°
TLCY5100	Yellow	10000	590	9°
TLCYG5100	Yellow-Green	3500	572	9°
TLCPG5100	Pure-Green	1250	562	9°

Product	Color	Iv / mcd @ IF = 30 mA (typ.)	Dominant Wavelength/nm IF = 30 mA (typ.)	+/- Angle of Half Intensity
TLCTG5100	True-Green	6000	525	9°
TLCBG5100	Blue-Green	6000	505	9°
TLCB5100	Blue	1500	470	9°
TLCW5100	White	4000	5500K	9°

#### Features:

- 5mmLED with exceptional brightness
- Available in AS12Z tape Dimension
- Temperature Range -40°C to +100°C
- Luminous intensity ratio in one packaging unit  $I_{Vmax} / I_{Vmin} < 2.0$
- ESD – withstand voltage: 2KV acc. To MIL STD 883D Method 3015.7 for AlInGaP, 1KV for InGaN
- Lead-free Device  
Luminous intensity and color categorized for each packing unit

#### The Key Applications:

- Interior and exterior lighting
- Outdoor LED panels
- Instrumentation and front panel indicators
- Replace incandescent lamps
- Traffic signals
- Light guide design

#### Availability:

- **Samples: Available,**

- **Production Quantities: Q1 / 2005**

**Lead times: 8 Weeks**

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