



Author: Horst G. Lengning
Tel: +49 7131 67-2765
E-mail: horst.lengning@vishay.com

New Red TELUX[®] Super-Bright LEDs With Special Oval Lens

The News:

Vishay is offering six new clear, non-diffused red LEDs in its super-bright TELUX[®] series. The new products feature one of the world's brightest AlInGaP on GaAs (OMA) technologies and are constructed with a special oval lens that reduces the number and cost of LEDs required in automotive and other lighting applications.

Features:

- Super-bright red light
- Oval lens that reduces number and cost of LEDs required
- Industry-standard 7.62-mm square package
- Luminous intensity ratings of >3000 mlm, >3500 mlm, and >4000 mlm
- Two available angles of half intensity: 25x68 or 40x90
- Binned for luminous flux, forward voltage, and color
- Excellent heat dissipation (R_{thJP}) of 90 K/W
- High operating temperature range of -40 °C to +110 °C
- Meet SAE and ECE color requirements for automotive applications
- Rated for ESD resistivity of 2 kV (HBM) according to MIL STD 883D, method 3015.7
- Lead (Pb)-free
- Compliant with RoHS 2002/95/EC and WEEE 2002/96/EC



Key Applications:

Traffic signals and signs; tail, brake, central high-mounted stop lights (CHMSL) and turn signals for motor vehicles; exterior lighting; and replacements for small incandescent lamps

The Perspective:

Featuring advanced brightness technologies, a special oval lens, heat dissipation of 90 K/W, and consistent flux, forward voltage, and color, Vishay's new TLWRxxxx TELUX super-bright LEDs allow designers to reduce both LED count and cost while providing bright and even light for automotive and other lighting applications.

The Key Benefits:

- Offer exceptional brightness thanks to one of the world's brightest AlInGaP on GaAs (OMA) technologies
- Reduce the number and cost of LEDs required in automotive and other lighting applications
- Provide a very homogenous appearance when used together in the same lighting system

Key Specification Table

Red TELUX® LEDs built using AlInGaP on GaAs technology

Device Number	Typical luminous intensity greater than (mlm)	Angle of half intensity ($\pm\phi$)
TLWR9420	3000	25 x 68
TLWR9421	3500	25 x 68
TLWR9422	4000	25 x 68
TLWR9520	3000	40 x 90
TLWR9521	3500	40 x 90
TLWR9522	4000	40 x 90

Availability: Samples and production quantities of the new red TLWR9420, TLWR9421, TLWR9422, TLWR9520, TLWR9521, and TLWR9522 TELUX LEDs are available now with lead times of four weeks.

TELUX is a registered trademark of Vishay Semiconductor GmbH

Contact Information:

The Americas

Dale Henderson
+1 408-567-8317
dale.Henderson@vishay.com

Europe

Kai Rottenberger
+49 7131 67-2113
eva.schnauffer@vishay.com

Asia/Pacific

Werner Kreile
+65 6780-7812
werner.kreile@vishay.com