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## LEDs for Automotive and Outdoor Applications



Vishay's high performance AEC-Q101 qualified TELUX LEDs are available in the emission colors red and yellow, and two optional viewing angles to provide a high luminous flux.

### APPLICATIONS

- Automotive
  - Brake lights
  - Taillights
  - Turn signals
- Outdoors
  - Traffic signals
  - Message panels
  - Warning lights

### RESOURCES

- TELUX LED portfolio: [www.vishay.com/leds/telux-package/](http://www.vishay.com/leds/telux-package/)
- Optoelectronics portfolio: [www.vishay.com/optoelectronics](http://www.vishay.com/optoelectronics)
- For technical questions: [LED@Vishay.com](mailto:LED@Vishay.com)
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)





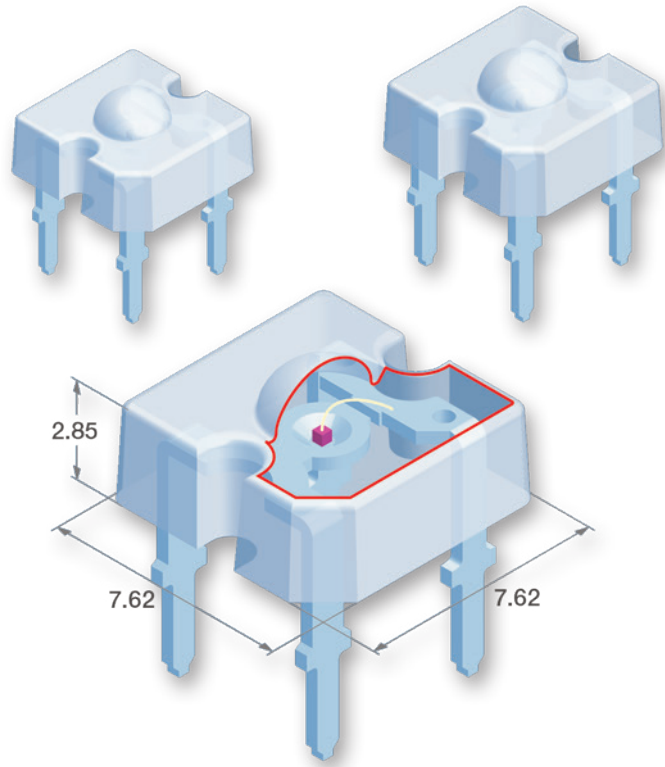
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Vishay's high performance AEC-Q101 qualified TELUX LEDs are available in the emission colors red and yellow, and two optional viewing angles to provide a high luminous flux.

TELUX LEDs are especially designed for rugged applications that require a high luminous intensity. These include automotive applications such as brake lights, taillights, and turn signals, as well as outdoor applications such as traffic signals, message panels, and warning lights.

TELUX LEDs are offered in red and yellow versions, and with a choice of 30° and 45° angles of half intensity.

With their excellent luminous flux performance and extended operating temperature range for AlInGaP from -40 °C to +110 °C, TELUX LEDs are the premier solution for all exterior automotive and outdoor LED applications.





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# OPTOELECTRONICS

## TELUX LEDS

TELUX												
Part Number	Color	Angle of Half Intensity (± °) $\phi$	Dominant Wavelength (nm) or Color Coordinate (x/y)			Luminous Flux $\Phi_V$ (lm)			Forward Voltage, $V_F$ (V)			$I_F$ (mA) for LD, $\Phi_V, V_F$
			Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
<a href="#">TLWR7600</a>	Red	30	611	618	634	1500	2800		1.83	2.2	2.67	70
<a href="#">TLWR7900</a>	Red	45	611	618	634	1500	2800		1.83	2.2	2.67	70
<a href="#">TLWR8600</a>	Red	30	611	616	634	2000	3700		1.83	2.2	2.67	70
<a href="#">TLWR8900</a>	Red	45	611	616	634	2000	3700		1.83	2.2	2.67	70
<a href="#">TLWR8901</a>	Red	45	611	616	634	2000	3700	4800	1.83	2.2	2.67	70
<a href="#">TLWR8902</a>	Red	45	611	616	634	3000	3900	4800	1.95	2.2	2.67	70
<a href="#">VLWR9632</a>	Red	30	611	616	634	4000		12 200		2.2	3.03	70
<a href="#">VLWR9930</a>	Red	45	611	616	634	4000	8500	12 200	1.83	2.2	3.03	70
<a href="#">VLWR9932</a>	Red	45	611	616	634	6000	9000	12 200	1.95	2.2	2.67	70
<a href="#">VLWR9933</a>	Red	45	611	616	634	7000	9500	12 200	1.95	2.2	2.67	70
<a href="#">TLWY7600</a>	Yellow	30	585	592	597	1000	2800		1.83	2.1	2.67	70
<a href="#">TLWY7900</a>	Yellow	45	585	592	597	1000	2800		1.83	2.1	2.67	70
<a href="#">TLWY8600</a>	Yellow	30	585	591	597	2000	3200		1.83	2.1	2.67	70
<a href="#">TLWY8900</a>	Yellow	45	585	591	597	2000	3200		1.83	2.1	2.67	70
<a href="#">VLWY9930</a>	Yellow	45	585	592	597	4000	8500	12 200	1.83	2.2	3.03	70