

LEDWE-15



Description

LEDWE-15 is an InGaN LED that emits light with a spectral output from 430 to 660 nm. This LED is encapsulated in a round, clear epoxy casing with a 5 mm diameter

Specifications

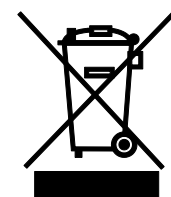
Absolute Max Ratings		
Specification	Symbol	Max
Reverse Voltage	V_{rev}	5 V
DC Forward Current, -40 to 40 °C	I_{fwd}	30 mA
DC Forward Current, 95°C	I_{fwd}	10 mA
Pulsed Forward Current ^a	I_{fwd}	100 mA
Operating Case Temperature	T_{case}	-40 to 95 °C
Storage Temperature	$T_{storage}$	-40 to 100 °C

a. Condition: Duty cycle = 10%, pulse width = 100 μ s.

Specifications ^b				
	Symbol	Min	Typical	Max
Wavelength Range	λ	430 – 660 nm		
Optical Power	P_{op}	-	13 mW	-
Forward Current, CW @ P_{op}	I_{fwd}	-	20 mA	-
Forward Voltage at 20 mA	V_{op}	-	3.2 V	4.0 V
Viewing Half Angle (HWHM)	$\Theta_{1/2}$	-	7.5°	-

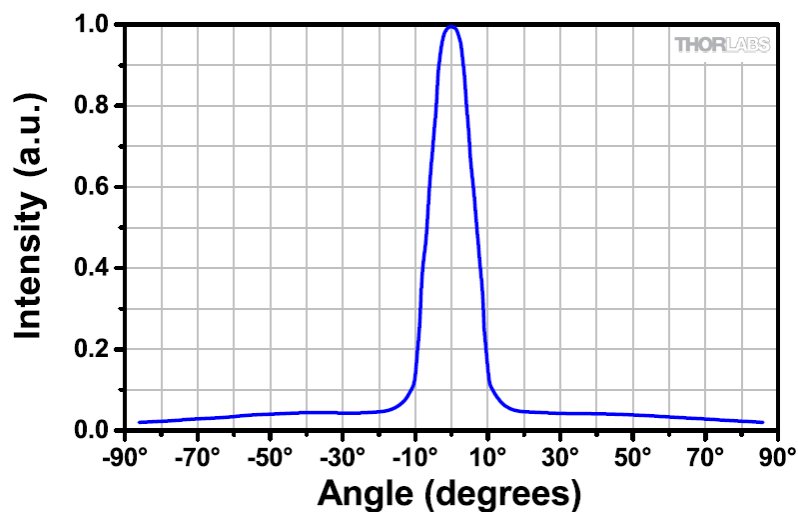
b. Unless otherwise specified, all specifications are for operation at 25 °C

Soldering Specifications	
	Conditions
Hand Soldering	At 260 °C, hold the soldering iron tip 3 mm from the bottom of the epoxy casing for 3 seconds or less.

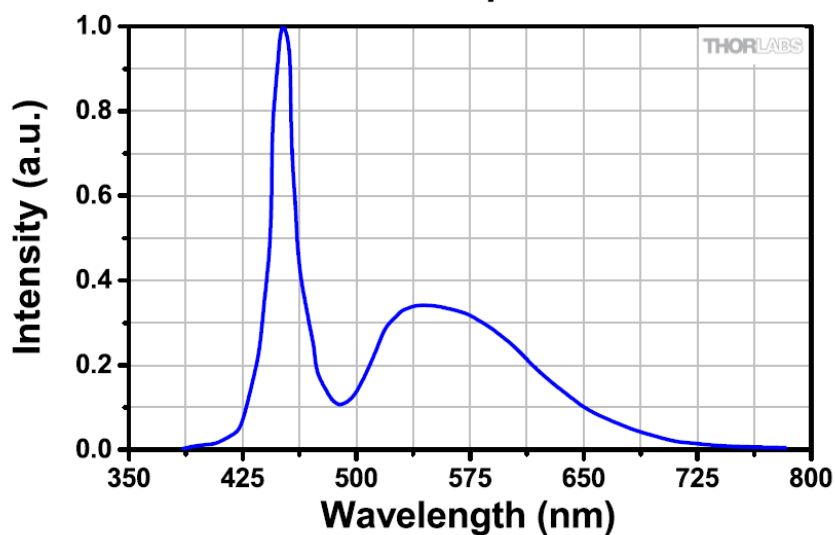


Typical Performance Plots

LEDWE-15 Far Field Distribution



LEDWE-15 Spectrum



These measurements were taken at a case temperature of 25 °C. The output spectrum and radiation distribution were measured with a forward current of 20 mA.

