



# FRLD-808-640W-Stack

## High Power Laser Diode Stack

**Features:** AuSn Solder for Packaging  
 Compact Design  
 High Peak Power Density  
 High Reliability

**Applications:** Pumping  
 Scientific Research

Specifications	Unit	Min	Typ	Max
<b>Optical Data</b>				
Center Wavelength $\lambda$	nm	805	808	811
CW Output Power / Bar	W	-	80	-
Number of Bars		-	8	-
Space between Bars	mm	-	~0.4	-
Spectral Width (FWHM)	nm	-	-	5
Fast Axis Divergence Angle		-	40°	-
Slow Axis Divergence Angle		-	10°	-
Temperature Drift of $\lambda$	nm/°C	-	~0.3	-
<b>Electrical Data (Bar)</b>				
Threshold Current	mA	-	-	12
Operation Current	mA	-	-	85
Slope Efficiency	W/A	1	-	-
Conversion Efficiency	%	48	-	-
Operation Voltage	V	-	-	2
Pulse Width	$\mu$ s	-	-	300
Repetition Rate	Hz	-	-	30
Duty Cycle	%			0.8

Temperature Conditions				
Operation Temperature	°C	0	-	45
Storage Temperature	°C	0	-	55

### Mechanical Drawings (in mm)

