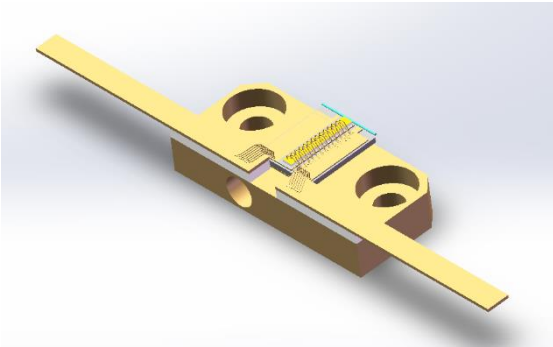


808nm 15W Uncooled F-Mount Laser Diode Module

TY-FM03-809±02nm-15.0W-01



SkyEra delivers uncooled single emitter diode lasers, employing AuSn bonding package with multiple advantages of stable output power, high power, high efficiency, long lifetime and high compatibility, and are widely applied in the market.

The performance and aging tests have been performed upon the production line to ensure reliable, stable and long lifetime of products.

To provide customers with high-quality, high cost performance products is the company's goal.

Features:

- Single emitter design
- High output power
- High stability
- Long lifetime
- RoHS compliance

Application:

- Medical
- Printing
- Industry
- Pumping
- Lighting

Specification:

Functional parameters are tested at the temperature of the heat sink is 25 degree, contact resistance of the component and heat sink is less than 1 CM² K/W. Reduced lifetime if used above nominal operating conditions. A non-condensing environment is required for storage and operation below the ambient dew point.

| Parameters | Min | Typ | Max | Unit | Conditions |
|-----------------------------------|-----|---------------|-----|-------|------------------|
| Output Power | | 15.0 | | W | |
| Center Wavelength FM | 807 | 809 | 811 | nm | |
| Spectral Width (FWHM) | - | 3.0 | - | nm | |
| Spectral Width (90%) | - | 5.0 | - | nm | |
| Fast-Axis Divergence (FWHM) | - | 12.0 | - | ° | Beam collimation |
| Slow-Axis Divergence (FWHM) | - | 10.0 | - | ° | |
| Wavelength Tuning vs. Temperature | - | 0.35 | - | nm/°C | |
| Polarization Mode | - | TE | - | - | |
| Emitter Size | - | 400 | - | μm | |
| Threshold Current | - | 2.8 | - | A | |
| Operating Current | - | - | 16 | A | |
| Operating Voltage | - | 1.75 | 2.2 | V | |
| Power Conversion Efficiency | - | 55.0 | - | % | |
| Slop Efficiency | - | 1.05 | - | W/A | |
| Storage Temperature | 0 | 25 | 80 | °C | non-condensing |
| Operating Temperature | 15 | 25 | 55 | °C | non-condensing |
| Apparent Size | - | 35.0X6.25X3.1 | - | mm | |

