

Item Number: 4715-0000

Item Description: 1550nm, 1W, single-mode, single frequency, single emitter on C-mount

ECCN: 6A005 (Export regulated by U.S. Government Export Administration Regulations)

Parameter	Specification
<b>OPTICAL</b>	
Center Wavelength	1550nm $\pm$ 5nm
Output Power	> 1.0 W
Linewidth (FWHM)	< 1 MHz
Emitter Width at Facet	250 $\mu$ m
Wavelength Temperature Coefficient	0.15 nm/C $^{\circ}$
Fast Axis Divergence	<35 $^{\circ}$
Slow Axis Divergence	<20 $^{\circ}$
Polarization	TE
Astigmatism	470 $\mu$ m
<b>ELECTRICAL</b>	
Operating Current Amp section	< 4.0A
Operating Current Osc section	< 0.7A
Operating Voltage Amp Section	<1.5V
Operating Voltage Osc. Section	< 3V
Conversion efficiency	~20%
<b>Mechanical</b>	
Chip Bonding Configuration	N-side to carrier
Package dimensions	See drawings below

*Notes:*

- 1) C-mount to be attached to a temperature controlled block with a screw through 3mm diameter hole
- 2) Performance data is specified at 20C heatsink temperature

**Schematic of 1550nm MOPA Chip on C-Mount**  
 (All dimensions are in millimeter)

