

Item Number: 4715-0005

Item Description: 1505nm, 1W, single-mode, single frequency, single emitter on C-mount

Parameter	Specification
OPTICAL	
Center Wavelength	1505nm $\pm$ 5nm
Output Power	> 1.0 W
Linewidth (FWHM)	< 1 MHz
Emitter Width at Facet	250 μ m
Wavelength Temperature Coefficient	0.15 nm/C $^{\circ}$
Fast Axis Divergence	<35 $^{\circ}$
Slow Axis Divergence	<20 $^{\circ}$
Polarization	TE
Astigmatism	470 μ m
ELECTRICAL	
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%
Mechanical	
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 1505nm MOPA Chip on C-Mount
(All dimensions are in millimeter)

