

**Item Number: 4715-0003**

**Item Description: 1532nm, 1W, single-mode, single frequency, single emitter on C-mount**

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

| Parameter                          | Specification        |
|------------------------------------|----------------------|
| OPTICAL                            |                      |
| Center Wavelength                  | 1532nm $\pm$ 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          |
| 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 1532nm MOPA Chip on C-Mount  
(All dimensions are in millimeter)

