NEW FOCUS
Smart Optics for Networks™

# Optical Circulators (C-band)

New Focus high performance optical circulators are designed for use in DWDM networks. Based upon the Faraday effect, these non-reciprocal devices direct light from port to port in only one direction. These circulators have low insertion loss and high isolation over a wide wavelength range. Each circulator offers minimal polarization-dependent loss (PDL) and low polarization-mode dispersion (PMD). Moreover, by using a proprietary optical design and packaging technique, we keep the optical path epoxy-free, resulting in excellent high power handling capability.

## Features

- Low insertion loss across the C-band
- Low PDL and PMD
- High isolation
- Epoxy-free optical path for high power handling

## Specifications

| Parameter | Units | Grade A | | | Grade B | | |
|---|---|---|---|---|---|---|---|
| | | Min | Typ | Max | Min | Typ | Max |
| Center Wavelength | nm | 1550 | | | 1550 | | |
| Operating Wavelength Range | nm | 1525-1565 | | | 1525-1565 | | |
| Insertion Loss* | dB | | 0.55 | 0.7 | | 0.75 | 0.9 |
| Isolation | dB | 40 | | | 40 | | |
| Polarization Dependent Loss | dB | | | 0.15 | | | 0.15 |
| Polarization Mode Dispersion | ps | | 0.05 | 0.1 | | 0.05 | 0.1 |
| Optical Return Loss | dB | 50 | | | 50 | | |
| Cross Talk | dB | 50 | | | 50 | | |
| Optical Power | mW | | | 500 | | | 500 |
| Fiber Length | m | 1 | | | 1 | | |
| Size (diameter x length) | mm | 5.5 x 56 | | | | | |
| Operating Temperature Range | °C | -5 to +70 | | | | | |
| Storage Temperature Range | °C | -40 to +85 | | | | | |
| Connector Options | | None, FC/PC, FC/APC | | | | | |

***Over wavelength and temperature**

**Part Numbers for Standard Grades without connectors:**
**Grade A: CIR10AN32N-00**
**Grade B: CIR10BN32N-00**