Fiber Optics

LIGHTEL

LASER COMPONENTS®

# Isolator

## 80 µm Fiber Polarization Insensitive Mini Size Isolator

## Specifications

| Parameter | Single Stage | Dual Stage |
|---|---|---|
| Central Wavelength (λc) | 1550 nm | |
| Peak Isolation (1550 nm, 23° C, all SOP) | 40 dB | 52 dB |
| Isolation in Band (λc ± 15 nm, 23° C, all SOP) | ≥ 28 dB | ≥ 42 dB |
| Insertion Loss in Band (λc, 23° C, all SOP) | ≤ 1.0 dB | ≤ 1.2 dB |
| Insertion Loss in Band (λc ± 20 nm, -5-70° C, all SOP) | ≤ 1.2 dB | ≤ 1.4 dB |
| Return Loss (Input/Output) | ≥ 55/55 dB | |
| PDL (λc, 23° C) | ≤ 0.1 dB | |
| PMD | ≤ 0.2 ps | ≤ 0.1 ps |
| Maximum Power | 500 mW | |
| Fiber Type | RC80 SM 1550 | |
| Operating Temperature | - 5° C ~ + 70° C | |
| Storage Temperature | - 40° C ~ + 85° C | |
| Package Dimensions | 3.0 mm (Φ) x 22 mm (L) | |

*Note1: all values specified are without connectors.*

## Ordering Information

R I S – ___ – 1 5 – ___ – ___ – ___

**Stage Type**
S: Single Stage
D: Dual Stage

**Center Wavelength**
15: 1550 nm

**Fiber Length**
A: 1 meter
S: Special

**Pigtail Style**
(=Package style)
B: bare fiber
L: 900 µm loose tube

**Connector**
0: None
1: FC/PC
2: FC/APC
3: SC/ PC
4: SC/APC
5: FC/SPC
6: SC/SPC
7: LC/UPC
8: LC/SPC
9: Special
A: FC/UPC
B: SC/UPC
C: ST



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