O-Net Communications

Smart Optical Component Solutions

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POLARIZATION MAINTAINING (PM) ISOLATOR

Features

- Low insertion loss & high isolation
- Low PDL & PMD
- High extinction ratio
- Optical path epoxy free
- RoHS compliant

Applications

- EDFA
- Fiber optic instruments

Specifications

Parameter			Specification					Unit
Single/Dual Stage			Single Stage			Dual Stage		
Center Wavelength(λc)			1550	1590	1064	1550	1590	nm
Without Polarizer	Isolation@ λc[1]	Min	40	40	35	50	50	dB
	Insertion Loss@ λc[1]	Typ	0.6	0.7	2.0	0.8	0.9	dB
	Insertion Loss@ λc[2]	Max	0.8	0.9	2.5	1.1	1.2	dB
	Extinction Ratio	Min	22	20	22	22	20	dB
With Polarizer	Isolation@ λc[1]	Min	40	40	35	50	50	dB
	Insertion Loss@ λc[1]	Typ	0.5	0.6	1.8	0.7	0.8	dB
	Insertion Loss@ λc[2]	Max	0.7	0.8	2.5	1.0	1.1	dB
	Extinction Ratio	Min	23	21	22	23	21	dB
Return Loss (Input/Output)		Min	60/55	60/55	55/50	60/55	60/55	dB
Operating Temperature Range			0~+70					˚C
Storage Temperature Range			-40~+85					˚C
Maximum Power Handling			300					mW
Package Dimension (L* ∅)			30*5.5			35*5.5		mm

1. Tested at 23˚C , all SOP, and values referenced without connector.
2. Tested at 0~70˚C , all SOP, and values referenced without connector.

Order Information

PIS–A–B–C–D

A	Single/Dual Stage	S: Single stage without polarizer P: Single stage with polarizer D: Dual stage without polarizer Z: Dual stage with polarizer
B	Grade	P: P-grade
C	Center Wavelength	55: 1550nm 59: 1590nm 64: 1064nm
D	Fiber Type	1: 400 μ m Panda PM fiber (for 1550,1590nm) 2: 250 μ m Panda PM fiber (for 1064nm) 3: 900 μ m Panda PM fiber