

Polarization independent isolator

Features

- Ultra high isolation
- Minimum polarization dependent Loss(PDL)
- Polarization mode dispersion(PMD) free
- Optical path epoxy free
- Low insertion Loss
- Environmentally stable

Applications

- Optical amplification
- Optical transmission
- CATV
- High-bit rate optical communications
- High speed analog optical systems



Specifications

ITEM	VALUES			
Operation Wavelength, nm	1310nm or 1550nm			
Stage	Single		Dual	
Grade	S	H	S	H
Minimum Isolation, dB (over the center wavelength \pm 15nm), (at 25 $^{\circ}$ C, all SOP)	30	29	45	43
Typical Insertion Loss, dB (at 25 $^{\circ}$ C, all SOP)	0.4	0.5	0.5	0.7
Maximum Insertion Loss, dB (over the operating range \pm 20nm), (-20 ~ 60 $^{\circ}$ C, all SOP)	0.5	0.7	0.7	0.9
Polarization dependent Loss, dB	\leq 0.1	\leq 0.15	\leq 0.1	\leq 0.15
Return Loss. dB (Input/output)	60/55	55/50	60/55	55/50
Polarization Mode dispersion, ps	\leq 0.25	\leq 0.25	\leq 0.05	\leq 0.07
Operating temperature, $^{\circ}$ C	0 ~ 60 $^{\circ}$ C			
Storage temperature, $^{\circ}$ C	-40 $^{\circ}$ C ~ 85 $^{\circ}$ C			
Maximum output power, mW	300			
Package Size, mm	E-type			
Note:SOP= States of Polarization	ϕ 5.5x34mm for coated fiber(250um) ϕ 5.5x39mm for loose tube cable(900um)			

Polarization independent isolator Ordering information

IS-PI

XX/XX

XX

XX

X

X

X

XXX(cm)

Connector (in/out)

11-ST
21-FC/PC
22-FC/APC
31-SC/PC
32-SC/APC
41-LC/PC
51-MU/PC
00-None
XX-Others

Pigtail length(for each end)

050- 50cm
100- 100cm
150- 150cm
200- 200cm
XXX-Others

Wavelength

31-1310 nm
55-1550 nm
XX-Other

Packaging Dimension

E- E type
X-Others

Pigtail type (in/out)

01-coated SMF fiber (250um)
02-loose tube cable (900um)
03- cable (3.0mm)
XX-Others

Stage type

S- Single
D- Dual

Grade

S- Super
H- High

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