Optical Circulator

Agilecom's Optical Circulator is a kind of component which realizes non-reversible transmission of light path. The isolator resists the light in the backward direction, while the circulator allows the light in the forward direction to be separated from the light in the backward direction and exit through the other port. This feature has a great significance on the bi-directional transmission and communications of optical signals.



Features

- Low Insertion Loss
- Wide Band High Isolation
- Low PDL
- High Stability and Reliability
- Compact In-Line Package
- Epoxy-free on Optical Path

Applications

- Optical Amplifier
- Metro Area Network
- Wavelength Add/Drop
- Dispersion Compensation
- Bi-Direction Communication

Specifications

Parameters	Unit	Specifications
Center Wavelength	nm	1310 or 1550
Operating Wavelength Band	nm	λc±30
Typ.Insertion Loss	dB	≤0.8
Max.Insertion Loss	dB	≤1.0
Channel Peak Isolation	dB	≥50
Channel Minimum Isolation	dB	≥35
Polarization Dependent Loss	dB	≤0.05
Channel Crosstalk	dB	≥50
Return Loss	dB	≥55
Power Handling	mW	500
Pigtail Type	/	SM Bare Fiber or Φ0.9mm Loose Tube
Operating Temperature	℃	-5 to 70
Storage Temperature	℃	-40 to 85
Package Dimension	mm	Ø5.5 x L50

Note: Specifications without connectors

Order Information

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Code	Fiber Type
S	SM
P	PM
M	MM
X	Customized

Code	Operating Wavelength(nm)
13	1310
15	1550
XX	Customized

Code	Package(mm)
1	5.5x35
2	5.5x50
X	Customized

Code	Pigtail Type
0	250um Bare Fiber
1	0.9mm Loose Tube
2	2.0mm Loose Tube
3	3.0mm Loose Tube
4	0.9mm Tight Tube
5	2.0mm Tight Tube
6	3.0mm Tight Tube
X	Customized

Code	Fiber Length(m)
1	0.5
2	1
3	1.5
4	2
5	2.5
6	3
X	Customized

Code	Connector
0	None
1	SC/UPC
2	SC/APC
3	FC/UPC
4	FC/APC
5	LC/UPC
6	LC/APC
X	Customized