

CIR-1310-50-APC

Fiber Optic Circulators

Description

Fiber optic circulators are non-reciprocating, one directional, three-port devices that are used in a wide range of optical setups and for numerous applications. An optical circulator is analogous to an electronic circulator and both perform similar functions. An optical circulator is a three-port device that allows light to travel in only one direction. A signal entered to Port 1 will exit Port 2, while a signal entering Port 2 will exit Port 3 all with minimal loss. Light entering port 2 experiences a large amount of loss at port 1, and light entering port 3 experiences a large amount of loss at ports 2 and 1.



Specifications

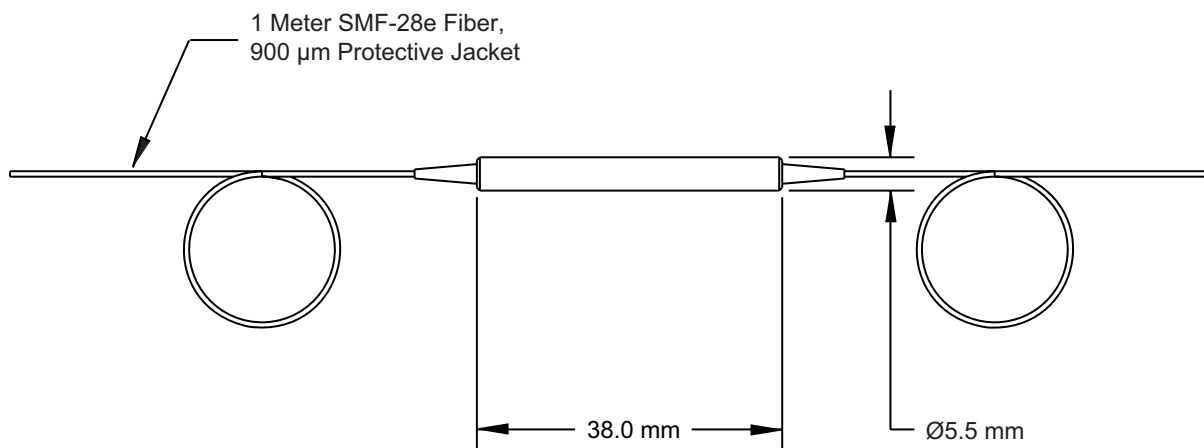
Specification	Value
Optical Specifications	
Wavelength Range	1280 - 1400 nm
Insertion Loss	1.6 Max ^{*,†}
Isolation	28 dB *
Directivity (1→3)	50 dB Min
Polarization Dependent Loss	0.2 dB Max
Polarization Mode Dispersion	0.05 ps Min
Polarization Extinction Ratio	n/a
Chromatic Dispersion	3 ps/nm Max
Return Loss	45 dB Min [†]
Max Optical Power	500 mW

^{*}) Includes Wavelength, Temp, Polarization Dependence

[†]) Includes Connector.

Specification	Value
Mechanical Specifications	
Package Dimensions	Ø 5.5 mm x 38 mm
Fiber	SMF-28e, 900 µm Loose Tube
Length	1.0 ± 0.1 m
Connector, Each Port	FC/APC
Operating Temp	0 to 70 °C
Storage Temp	-40 to 85 °C
Operating Relative Humidity	5% - 95%
Storage Relative Humidity	5% - 95%

Drawings



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