



# High Power Polarization-Insensitive Optical Circulator

## FEATURES

Low Insertion Loss and Low PDL  
 High Isolation and High Return Loss  
 Epoxy Free Optical Path

## APPLICATION

EDFA, DWDM and OTDR  
 DWDM and OADM Networks  
 Bi-directional Transmission System

## PERFORMANCE SPECIFICATIONS

| Parameter                    | Specifications               |                       |
|------------------------------|------------------------------|-----------------------|
| Operating Wavelength         | 1550±30nm                    |                       |
| Grade                        | P                            | A                     |
| Minimum Isolation            | ≥ 40dB <sup>1)</sup>         | ≥ 40dB <sup>1)</sup>  |
| Minimum Isolation            | ≥ 35 dB <sup>2)</sup>        | ≥ 35 dB <sup>2)</sup> |
| Insertion Loss (Typ.)        | ≤0.90dB <sup>1)</sup>        | ≤1.2dB <sup>1)</sup>  |
| Insertion Loss (Max)         | ≤ 1.1dB <sup>2)</sup>        | ≤ 1.4dB <sup>2)</sup> |
| Return Loss                  | ≥ 50dB                       |                       |
| Polarization Dependent Loss  | ≤ 0.15dB                     |                       |
| Polarization Mode Dispersion | ≤ 0.10ps                     |                       |
| Channel Crosstalk            | ≥ 50dB                       |                       |
| Optical Power                | ≤ 1, 2, 3 or 5W              |                       |
| Operating Temperature        | 0 to +70°C                   |                       |
| Storage Temperature          | - 40 to +85°C                |                       |
| Package Dimensions           | A=Φ5.5xL63mm<br>M=Φ5.5xL50mm |                       |

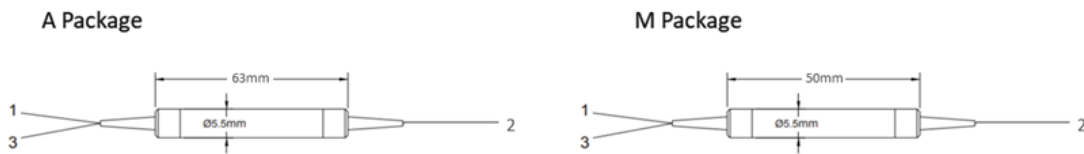
Note:

- 1) Measured at center wavelength under 23°C for all SOP.
- 2) Measured at center wavelength under 0~70°C for all SOP.

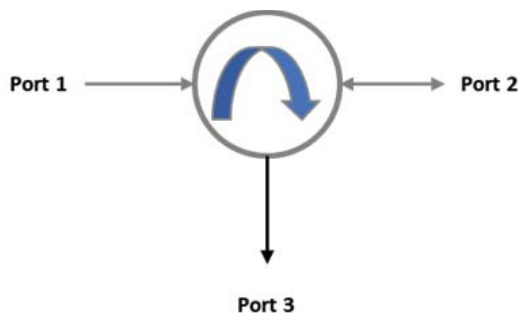
All values referenced are without connector.

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### MECHANICAL DIMENSIONS



### PORT CONFIGURATIONS



### ORDERING INFORMATION

| Type      | Port     | Grade     | Operating Wavelength | Package     | Fiber Type*                | Pigtail Style | Fiber Length | In Connector | Out Connector |
|-----------|----------|-----------|----------------------|-------------|----------------------------|---------------|--------------|--------------|---------------|
| H1PIOC=1W | 3=3 Port | P=P Grade | 55=1550nm            | A=A package | 2=SMF-28 Ultra             | 1=Bare fiber  | 05=0.5m      | 0=None       | 0=None        |
| H2PIOC=2W |          | A=A Grade |                      | M=M package | (G.657.A1)                 | 2=900um       | 10=1.0m      | 1=FC/APC     | 1=FC/APC      |
| .         |          |           |                      |             | 3=ClearCurve ZBL(G.657.B3) | loose tube    | .            | 2=FC/PC      | 2=FC/PC       |
| .         |          |           |                      |             |                            |               | .            | 3=SC/APC     | 3=SC/APC      |
| .         |          |           |                      |             |                            |               | .            | 4=SC/PC      | 4=SC/PC       |
|           |          |           |                      |             |                            |               | 20=2.0m      | 5=ST         | 5=ST          |
|           |          |           |                      |             |                            |               |              | 6=LC/UPC     | 6=LC/UPC      |
|           |          |           |                      |             |                            |               |              | 7=LC/APC     | 7=LC/APC      |

\*1=SMF-28(G.652) is available upon request.