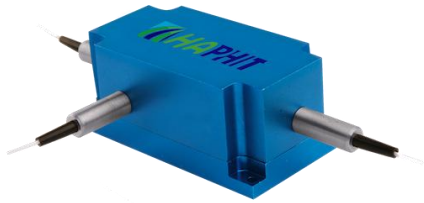
# 900~1150nm 3-port Multimode Optical Circulator

## APPLICATIONS

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

## APPLICATIONS

- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Dispersion Compensation
- Light Routing

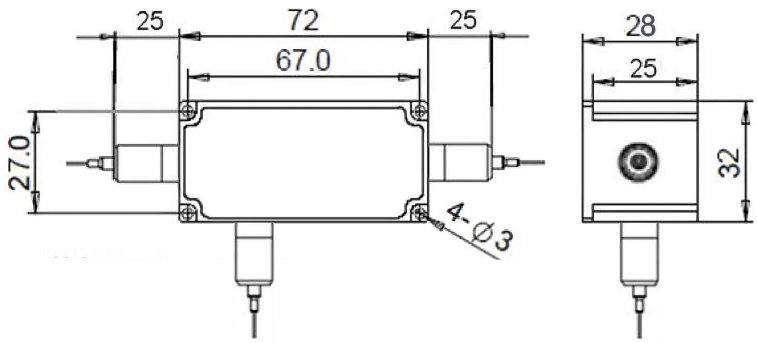


## SPECIFICATIONS

| Parameter | | Unit | Value |
|---|---|---|---|
| Working Wavelength | | nm | 915±10, 930±10, 950±10, 980±10, 1000±10, 1020±10, 1030±10, 1040±10, 1053±10, 1064±10, 1070±10, 1080±10, 1092±10, 1103±10, 1120±10, 1150±10 |
| Insertion Loss@23°C | (Typ.) | dB | 1.5 |
| | (Max.) | dB | 2.0 |
| Isolation@23°C | (Typ.) | dB | 22 |
| | (Min.) | dB | 18 |
| Optical Return Loss | | dB | ≥25 |
| Cross Talk | | dB | ≥25 |
| Fiber Type | | - | 50/125um MM Fiber (OM2) or 62.5/125um MM Fiber (OM1) 50/125um OM3 MM Fiber (3) or 50/125um OM4 MM Fiber (4) |
| Fiber Tensile Load | | N | 5 |
| Maximum Optical Power (CW) | | W | 0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30 |
| Operating Temperature | | °C | 0~50 |
| Storage Temperature | | °C | -20~75 |

**Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
2. To add connectors, IL is 0.3dB higher, RL is 10dB lower.
3. Specifications are tested at low order modes.
4. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
5. Devices for higher optical power or with other type fiber or consigned fiber are also available.
6. Package may be different for different wavelength, fiber type and optical power.

## PACKAGE DIMENSION




## ORDERING INFORMATION (PN)

**FMCR- NNNN -3HP NN - (NN) - C C NN -CC/CCC**

| Center Wavelength | Optical Power | Optical Power P2 | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|---|---|---|---|---|---|---|
| 915=915nm | 03= 300mW | 1= 1W | 5= 50/125um MM Fiber | B= Bare fiber | 05=0.5m | N=Without Connector |
| 1030=1030nm | 1= 1 Watts | 2= 2W | 6= 62.5/125um MM Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| 1064=1064nm | 5= 5 Watts | 5=5W | 3= OM3 MM Fiber | 2=2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| 1120=1120nm | 20= 20 Watts | Blank for P2=P1 | 4= OM4 MM Fiber | 3=3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |