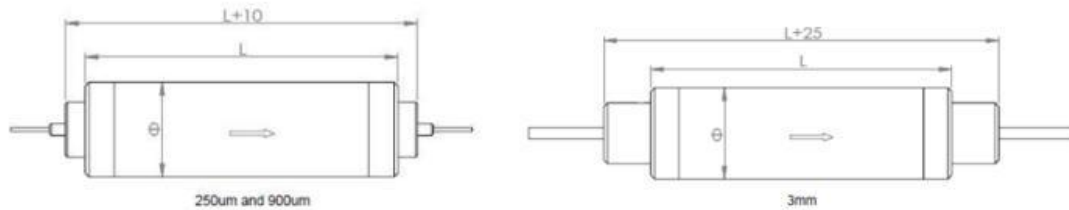


## 980nm TGG SM Isolator



### ● Product Description

Isolators, TGG technology; fiber coupled free space; custom solutions available

### ● Product features

TGG Technology、Fiber coupled free space、Customized solutions available

### ● Part Number

MP-ISO-F-980-A-SA-1

### ● Application area

Fiber lasers、Fiber optic sensors

## ● Core parameters

| Wavelength | Max.Optical Power | Min.Isolation | Connector |
|------------|-------------------|---------------|-----------|
| 980nm      | 250mW             | 25dB          | FC/APC    |

## ● General Parameters

Main Parameters:

| Parameter                    |     | Unit | 532 nm | 635 nm | 650 nm | 780 nm | 850 nm | 980 nm | 1030 nm | 1060 nm |
|------------------------------|-----|------|--------|--------|--------|--------|--------|--------|---------|---------|
| Isolation(23°C,All SOP)      | Typ | dB   | 26     | 26     | 26     | 28     | 28     | 30     | 30      | 30      |
|                              | Min | dB   | 23     | 23     | 23     | 24     | 24     | 25     | 25      | 25      |
| Insertion loss(All SOP)      | Max | dB   | 2.3    | 2.0    | 2.0    | 1.5    | 1.5    | 1.2    | 1.2     | 1.2     |
| Polarization Dependent Loss  | Max | dB   | 0.2    | 0.2    | 0.2    | 0.18   | 0.18   | 0.15   | 0.15    | 0.15    |
| Polarization Mode Dispersion | Max | ps   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2     | 0.2     |

|                                                                                                     |          |    |           |           |           |           |           |           |           |           |
|-----------------------------------------------------------------------------------------------------|----------|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| PM D                                                                                                |          |    |           |           |           |           |           |           |           |           |
| Return loss                                                                                         | Min      | dB | 45        | 45        | 45        | 45        | 45        | 45        | 45        | 45        |
| Optical power handling                                                                              | Max      | mW | 50        | 100       | 100       | 150       | 150       | 250       | 250       | 250       |
| Packing size                                                                                        | Cylinder | mm | Φ 21x L60 | Φ 21x L75 | Φ 21x L75 | Φ 24x L80 | Φ 24x L80 | Φ 24x L95 | Φ 24xL 95 | Φ 24xL 95 |
| Operating temperature                                                                               |          | °C | 10~50     |           |           |           |           |           |           |           |
| Storage temperature                                                                                 |          | °C | 0~60      |           |           |           |           |           |           |           |
| The above specifications apply to parts without connectors. Adding connectors may affect IL, RL PDL |          |    |           |           |           |           |           |           |           |           |
| SOP = State of Polarization                                                                         |          |    |           |           |           |           |           |           |           |           |

## Appendix 1: Optional Configuration Table

|     | Optional Configuration |            |      |                |           |                               |                   |
|-----|------------------------|------------|------|----------------|-----------|-------------------------------|-------------------|
| VIS | Wavelength             | Fiber Type | Tube | Pigtail Length | Connector | Max. Optical Power*(optional) | Package(optional) |

|             |                 |                    |             | h            |                   | tional)  |          |
|-------------|-----------------|--------------------|-------------|--------------|-------------------|----------|----------|
| V<br>I<br>S | 532=5<br>32nm   | S=Single<br>- Mode | B=25<br>0um | 10=1.<br>0m  | FA=F<br>C/AP<br>C | X=Others | X=Others |
|             | 635=6<br>35nm   | X=Others           | L=900<br>um | 15=1.<br>5m  | FC=FC/P<br>C      |          |          |
|             | 650=6<br>50nm   |                    | H=3m<br>m   | 20=2.<br>0m  | SA=S<br>C/AP<br>C |          |          |
|             | 780=7<br>80nm   |                    |             | 30=3.<br>0m  | SC=S<br>C/PC      |          |          |
|             | 850=8<br>50nm   |                    |             | X=Ot<br>hers | ST=ST/P<br>C      |          |          |
|             | 980=9<br>80nm   |                    |             |              | LA=L<br>C/AP<br>C |          |          |
|             | 1030=1<br>030nm |                    |             |              | LC=LC/P<br>C      |          |          |
|             | 1060=1<br>060nm |                    |             |              | X=Others          |          |          |

|                                                |          |  |  |  |         |  |  |
|------------------------------------------------|----------|--|--|--|---------|--|--|
|                                                | X=Others |  |  |  | NE=None |  |  |
| * Max. power will affect other specifications. |          |  |  |  |         |  |  |

## Appendix 2: Model and Part Number Comparison Table

| Part Number             | Title                             | Operating Wavelength | Max. Optical Power | Min. Isolation | Connector |
|-------------------------|-----------------------------------|----------------------|--------------------|----------------|-----------|
| MP-ISO-F-532-A-S<br>A-1 | 532nmTG<br>G Single Mode Isolator | 532nm                | 50mW(optional)     | 23dB           | FC/APC    |
| MP-ISO-F-635-A-S<br>A-1 | 635nmTG<br>G Single Mode Isolator | 635nm                | 100mW(optional)    | 23dB           | FC/APC    |
| MP-ISO-F-650-A-S<br>A-1 | 650nmTG<br>G Single Mode Isolator | 650nm                | 100mW(optional)    | 23dB           | FC/APC    |

|                          |                                          |        |                     |      |        |
|--------------------------|------------------------------------------|--------|---------------------|------|--------|
| MP-ISO-F-780-A-S<br>A-1  | 780nmTG<br>G Single<br>Mode<br>Isolator  | 780nm  | 150mW(optio<br>nal) | 24dB | FC/APC |
| MP-ISO-F-850-A-S<br>A-1  | 850nmTG<br>G Single<br>Mode<br>Isolator  | 850nm  | 150mW(optio<br>nal) | 24dB | FC/APC |
| MP-ISO-F-980-A-S<br>A-1  | 980nmTG<br>G Single<br>Mode<br>Isolator  | 980nm  | 250mW(optio<br>nal) | 25dB | FC/APC |
| MP-ISO-F-1030-A-<br>SA-1 | 1030nmT<br>GG Single<br>Mode<br>Isolator | 1030nm | 250mW(optio<br>nal) | 25dB | FC/APC |
| MP-ISO-F-1060-A-<br>SA-1 | 1060nmT<br>GG Single<br>Mode<br>Isolator | 1060nm | 250mW(optio<br>nal) | 25dB | FC/APC |