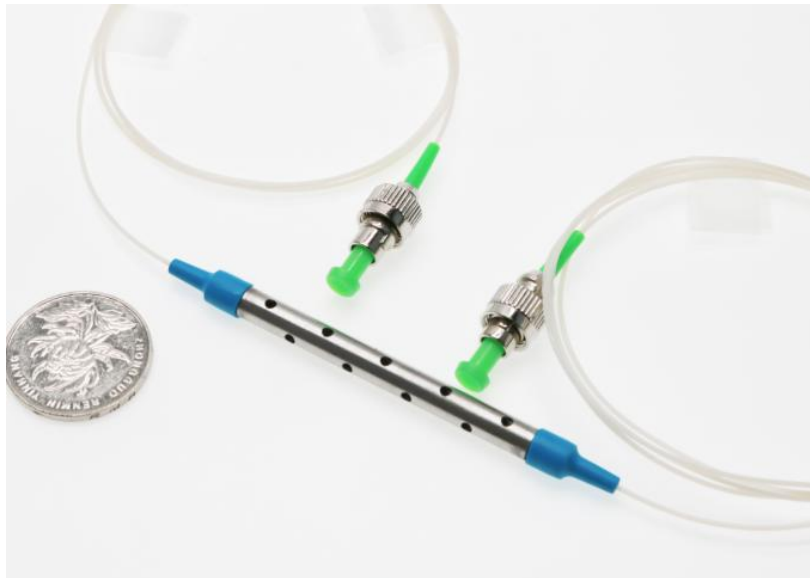




Diffused laser collimator gas cell 1370nm



- **Product Description**

Idealphotonics' collimator gas cell products have compact size, low loss, and low polarization-related loss optical performance, which make them widely used in various fiber optic gas sensing detection systems. At the same time, we can also easily provide customized product types with various working distances, dimensions, etc.

- **Product features**

Low insertion loss、 No adhesive in the optical path、 Compact structure、
High reliability and stability



● Part Number

MP-OGC-1370-0045-FF

● Application area

Fiber optic devices and modules、 Free space optical path integration、

Optical test system、 Sensor system

● Core parameters

| Operating wavelength | Operating distance | Fiber type |
|----------------------|--------------------|------------|
| 1370nm | 45mm | 9/125μm |

● General Parameters

Parameter

| parameter | Unit | Value | note |
|----------------------|------|-----------------------|------------------------------------|
| Operating wavelength | nm | 1370 1550 or 1650 | Other wavelengths available |
| Bandwidth | nm | +/-20 | Customizable wider bandwidth range |
| Operating distance | mm | 45 +/-0.1 | Other distances can be customized |
| Insertion loss | dB | 0.5 (Typ.) 0.8 (Max.) | |



| | | | |
|------------------------------------|-----------|-----------------|---|
| Return loss | dB | >50 | |
| Optical power | mW | 500 | |
| Polarization-dependent loss | dB | ≤0.10 | |
| Operating temperature | °C | -5 ~ 70 | Customizable wider temperature range |
| Storage temperature | °C | -40 ~ 85 | |
| Fiber type | NA | Smf-28e+ | Other types of optical fiber can be selected |
| Dimensions(ΦD x A) | mm | Φ5.5× 70 | For 45mm working distance |

*. The above indicators do not include connectors

Ordering Information (e.g. MP-OGC-111222)

| | | | | | | |
|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| PFCC 2 — | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Central Wavelength | Power instability | Fiber Type | Fiber Tuber | Fiber Length | Connector Type | |
| 1. 1370 nm | 1. 45mm | 1. 9/125μm | 1. 250μm fiber | 1. 0.5 +/- 0.1 m | 0. No Connector | |
| 2. 1650 nm | 2. 60mm | 2. 6/125μm | 2. 900μm fiber | 2. 1.0 +/- 0.1 m | 1. FC/UPC | |
| 3. 1550 nm | 3. Others | 3. 6/80μm | 3. Others | 3. Others | 2. FC/APC | |
| 4. Others | | 4. Others | | | 3. SC/UPC | |
| | | | | | 4. SC/APC | |
| | | | | | 5. LC/PC | |
| | | | | | 6. MU/PC | |
| | | | | | 7. Others | |