

Diffused laser collimator gas cell 1650nm



● 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-1650-0045-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
1650nm	45mm	9/125 μ m



● 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)

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