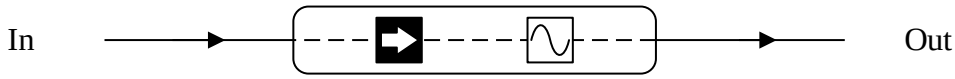
Product: Isolator +Gain Flattening Filter Hybrid

Part Number	Spec Number	Version	Date
IGFFXXXXXXXXXX	S017	Rev 01	08/08/2022

1 Function Diagram

This is an isolator + GFF Hybrid.



2 Specifications

2.1 Environment Conditions

Item	Parameters	Symbol	Min	Typ	Max	Units	Note
1.	Operating Temperature	Top	0		70	°C	
2.	Storage Temperature	Tstor	-40		85	°C	
3.	Operating Relative Humidity	RHop	5		95	%	[1]
4.	Storage Relative Humidity	RHstor	5		95	%	[1]

Note:
[1] Not to exceed industrial standard of 0.024 kg water per kg of dry air under non-condensing conditions.

2.2 Optical Specifications

Item	Parameters		Symbol	Min	Typ	Max	Units	Note
5.	Operating Wavelength		λs	Customer Specified			nm	
6.	Mean Relative Insertion Loss Error Function		MRILEF		0.2	1.0	dB	[2]
7.	Range of Insertion Loss Error Function		$ILEF_{Range}$			0.5	dB	[3]
8.	Isolation@λs	Single Stage	ISO	18			dB	
9.		Dual Stage	ISO	35			dB	
10.	GFF Curve		GC	Customer Specified			/	
11.	Polarization Dependent Loss		PDL			0.2	dB	
12.	Return Loss		RL	50			dB	
13.	Optical Power		Pop			500	mW	G

Note:
G: Guaranteed by Design.
[2] MRILEF= Σ (IL - ILtgt, n) / n
[3] $ILEF_{Range}$ (dB) = $ILEF_{max} - ILEF_{min}$

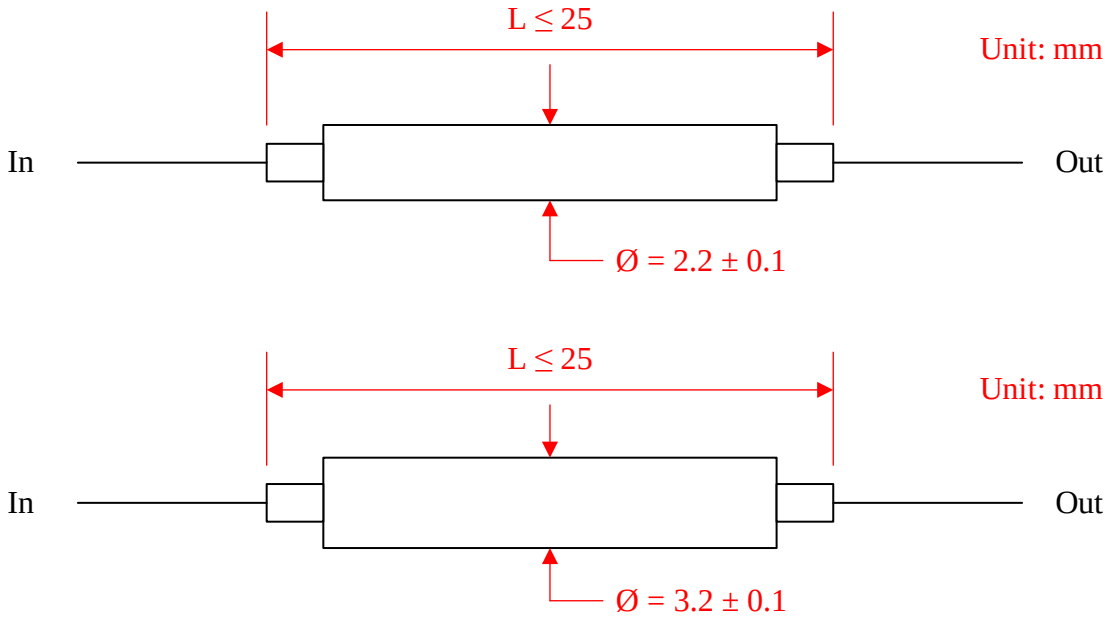
3 Mechanical Specifications

3.1.1 Specifications

Item	Parameters		Symbol	Min	Typ	Max	Units	Note
14.	Fiber Type			By PN				
15.	Fiber Length			By PN			m	
16.	Fiber Jacket			Bare fiber				
17.	Connector Type			By PN				
18.	Package Dimension			See drawing below			mm	
19.	Fiber Color	In		Black				
		Out		Natural				

Note:

3.1.2 Drawings



4 Device Label, Delivery Data

Triple-Stone standard format

5 RoHS Requirement

RoHS compliant

6 Order Information

IGFF □ □ □ □ □ □ **S** □ □ □ □

Dimension
Ø2.2mm = 2
Ø3.2mm = 3

Stage
Single stage = S
Dual stage = D

Wavelength
C-band = 1550
L-band = 1590

GFF Target Curve
Specify = S

Fiber Type
125/250μm bare fiber = 01
80/165μm bare fiber = 02

Fiber Length
1.0 meter = 1
1.5 meters = 5
2.0 meters = 2
0.5 meter = H
Specify = S

Connector Type
None = 1
SC/APC = 2
SC/UPC = 3
FC/APC = 4
FC/UPC = 5
LC/APC = 6
LC/UPC = 7