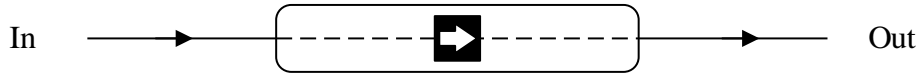


**Product: Isolator**

Part Number	Spec Number	Version	Date
SISOXXXXXXXXXXXX	S030	Rev 03	02/23/2022

**1 Function Diagram**



**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	$\lambda_{op}$		1528 ~ 1568		nm	
6.	Insertion Loss @ $\lambda_{op}$	Single Stage	IL		0.5	dB	
		Dual Stage	IL		0.6	dB	
7.	Isolation @ $\lambda_{op}$	Single Stage	ISO	20		dB	
		Dual Stage	ISO	36		dB	
8.	Polarization Dependent Loss	PDL			0.15	dB	
9.	Return Loss	RL	50			dB	
10.	Polarization Mode Dispersion	Single Stage	PMD		0.25	ps	G
		Dual Stage	PMD		0.05	ps	G
11.	Optical Power	Pop			500	mW	G

**Note:**

\*Above specifications are for device without connector. IL is 0.3 dB higher, RL is 5 dB lower after connector added.

G: Guaranteed by design.

**2.3 Mechanical Specifications**

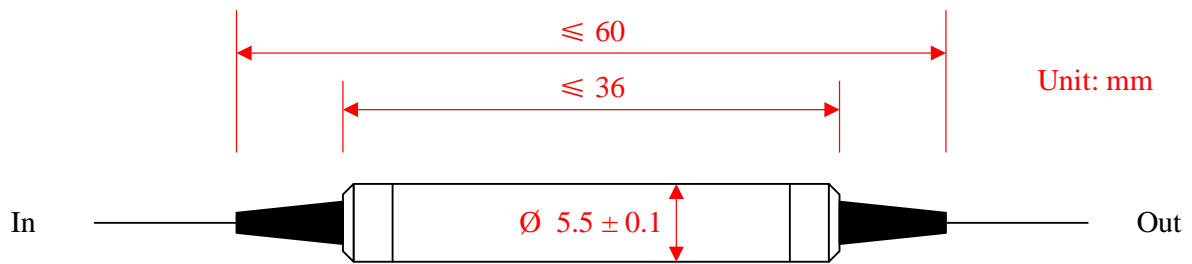
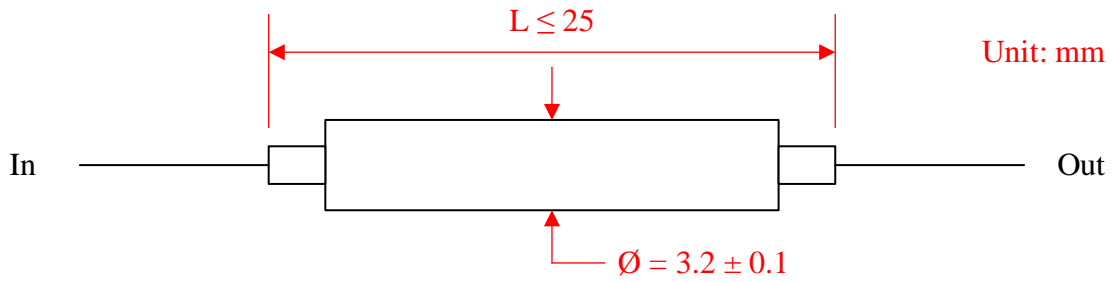
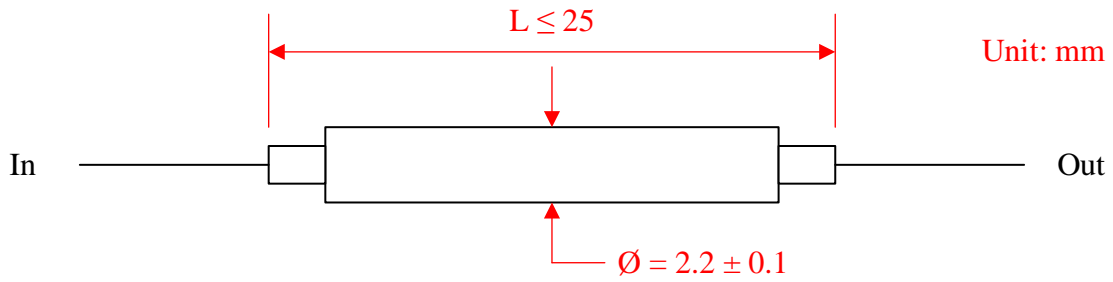
**2.3.1 Specifications**

Item	Parameters	Symbol	Min	Typ	Max	Units	Note
12.	Fiber Type			By PN			
13.	Fiber Length			By PN		m	
14.	Fiber Jacket			By PN			
15.	Connector Type			By PN			
16.	Package Dimension			$\varnothing = 2.2 \pm 0.1 \times L \leq 25$		mm	
				$\varnothing = 3.2 \pm 0.1 \times L \leq 25$		mm	
17.	Fiber Color	In		Black			[2]
		Out		Natural			

**Note:**

[2] Mark the bare fiber starting at 10~30cm away from the device body to fiber end.

### 2.3.2 Drawings



### 3 Device Label, Delivery Data

Triple-Stone standard format.

### 4 RoHS

RoHS compliant.

### 5 Ordering Information

