

790nm High Power PM 3-port Optical Circulator

790nm High Power PM 3-port Optical Circulator is a fiber passive component built with TGG crystal, which can change signal light transmission path, the signal can be delivered from Port 1 to Port 2, the other signal light from Port 2 to Port 3, the high isolation can block the back reflection light. It's widely used in Quantum Communication, Fiber Laser and Coherent Detecting field. If need pulse type please tell us to confirm.

Application:

Quantum Communication
Fiber Laser
Coherent Detecting
Lab & Research

Features:

High Power
High Extinction Ratio
High Isolation
High Reliability



Specification:

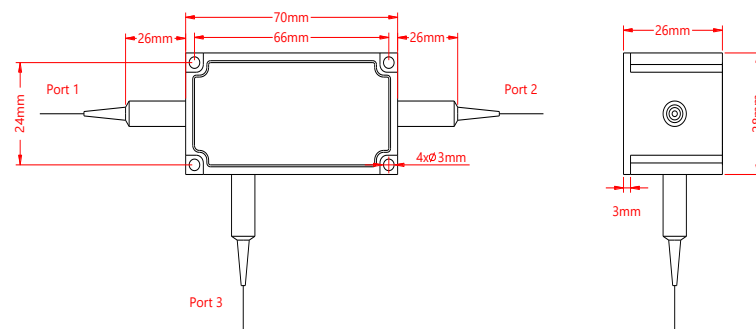
Parameter	Symbol	Value	Unit
Center Wavelength	λ	790	nm
Bandwidth	BW	± 10	nm
Typ. Insertion Loss (Port 1 to 2, 2 to 3)	IL	0.9	dB
Max. Insertion Loss (Port 1 to 2, 2 to 3)	IL	1.2	dB
Typ. Isolation (Port 2 to 1, 3 to 2)	Iso	25	dB
Min. Isolation (Port 2 to 1, 3 to 2)	Iso	22	dB
Min. Extinction Ratio	ER	20	dB
Min. Cross Talk	Ct	45	dB
Min. Return Loss	RL	45	dB
Max. Optical Power (CW)	P	1, 3, 5, 10, 20 or Customized	W
Max. Peak Power	P	5, 10, 20 or Customized	kW
Max. Tensile Load		5	N
Fiber Type		PM780-HP Panda fiber	-
Operating Temperature	T	10~50	°C
Storage Temperature	T	0~60	°C
Package Dimension		70x28x26	mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23°C.

For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower.

Slow axis is default aligned to the connector key. Connectors only 1W CW optical power guarantee.

Drawing:



Ordering Information (Part Number):

HPMCIR-**WWW-P-A-HH-J-LL-CC**

WWW	P	A	HH	J	LL	CC
Wavelength	Port	Working Axis	Handling Power	Fiber Jacket	Fiber Length	Connector
760 - 760nm	3 - 3 Ports	F - Fast Axis Blocked Slow Axis Working B - Both Axes Working	01 - 1W	B - 250um Bare Fiber	05 - 0.5m	NE - None
780 - 780nm			03 - 3W	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
785 - 785nm			05 - 5W	2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
790 - 790nm			10 - 10W	3 - 3.0mm Loose Tube	20 - 2.0m	SS - Specify
793 - 793nm			15 - 15W			
795 - 795nm			20 - 20W			
SSS - Specify			SS - Specify			