

1080nm High Power PM 3-port Optical Circulator

1080nm 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:

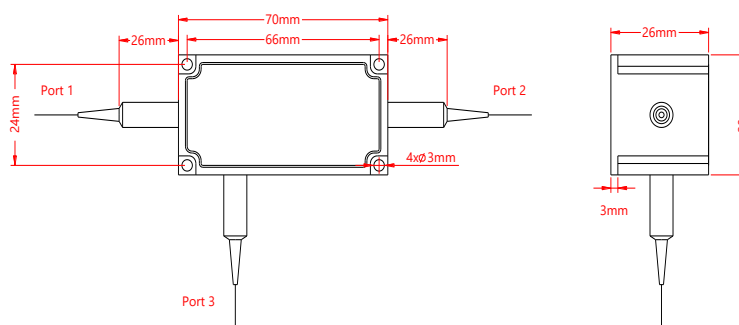
Parameter	Symbol	Value	Unit
Center Wavelength	λ	1080	nm
Bandwidth	BW	± 10	nm
Typ. Insertion Loss (Port 1 to 2, 2 to 3)	IL	0.9	dB
Max. Insertion Loss (Port 1 to 2, 2 to 3)	IL	1.2	dB
Typ. Isolation (Port 2 to 1, 3 to 2)	Iso	25	dB
Min. Isolation (Port 2 to 1, 3 to 2)	Iso	22	dB
Min. Extinction Ratio	ER	20	dB
Min. Cross Talk	Ct	45	dB
Min. Return Loss	RL	45	dB
Max. Optical Power (CW)	P	1, 3, 5, 10, 20, 50, 100 or Customized	W
Max. Peak Power	P	5, 10, 20 or Customized	kW
Max. Tensile Load		5	N
Fiber Type		PM 980, PM5/130DC, PM6/125DC, PM10/125DC, PM20/125DC, PM20/400DC 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 - FF - J - LL - CC							
WWW	P	A	HH	FF	J	LL	CC
Wavelength	Port	Working Axis	Handling Power	Fiber Type	Fiber Jacket	Fiber Length	Connector
1020 - 1020nm 1030 - 1030nm 1040 - 1040nm 1050 - 1050nm 1053 - 1053nm 1060 - 1060nm 1064 - 1064nm 1080 - 1080nm SSSS - Specify	3 - 3 Ports	F - Fast Axis Blocked Slow Axis Working B - Both Axes Working	01 - 1W 03 - 3W 05 - 5W 10 - 10W 20 - 20W 50 - 50W 100 - 100W 150 - 150W SS - Specify	P9 - PM 980 D1 - PM5/130DC D2 - PM6/125DC D3 - PM10/125DC D4 - PM20/125DC D5 - PM20/400DC SS - Specify	B - 250um Bare Fiber 9 - 900um Loose Tube 2 - 2.0mm Loose Tube 3 - 3.0mm Loose Tube	05 - 0.5m 10 - 1.0m 15 - 1.5m 20 - 2.0m SS - Specify	NE - None FA - FC/APC FU - FC/UPC SS - Specify