

830±50nm Broadband 3-port PM Optical Circulator

830±50nm Broadband 3-port PM 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 OCT System, Fiber Optic Sensor and Coherent Detecting System field. High Power type is also available upon request.

Application:

OCT
Fiber Optic Sensor
Coherent Detecting
Lab & Research

Features:

Wide Band
High Isolation
Low Insertion Loss
High Reliability



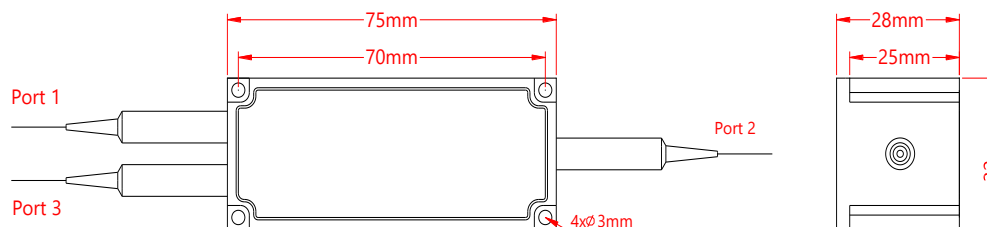
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	830	nm
Bandwidth	BW	±50	nm
Max. Insertion Loss (Port 1 to 2, 2 to 3) @ λ	IL	1.0	dB
Max. Insertion Loss (Port 1 to 2, 2 to 3) @ $\lambda \pm 50\text{nm}$	IL	1.8	dB
Typ. Isolation for Port 2→1, 3→2 @ $\lambda \pm 50\text{nm}$	Iso	42	dB
Min. Isolation for Port 2→1, 3→2 @ $\lambda \pm 50\text{nm}$	Iso	35	dB
Min. Extinction Ratio	ER	20	dB
Max. Wavelength Dependent Loss	WDL	0.4	dB
Min. Return Loss	RL	50	dB
Max. Optical Power (CW)	P	500 or customized	mW
Max. Tensile Load		5	N
Fiber Type		PM780-HP fiber	-
Operating Temperature	T	10~50	°C
Storage Temperature	T	0-60	°C
Package Dimension			mm

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

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

Drawing:



Ordering Information (Part Number):

PM CIR-**WW**-**BB**-**P**-**A**-**J**-**LL**-**CC**

WW	BB	P	A	J	LL	CC
Wavelength	Bandwidth	Port	Working Axis	Jacket	Fiber Length	Connector
830 - 830nm	1H- 100nm	3 - 3 Ports	F - Fast Axis Blocked	B - Bare Fiber	05 - 0.5m	NE - None
840 - 840nm	SS - Specify		B - Both Axes Working	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
850 - 850nm					15 - 1.5m	FU - FC/UPC
SSS - Specify					20 - 2.0m	SS - Specify
					SS - Specify	