

2 μ m PM High Power Fiber Circulator

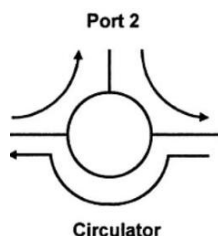
(1, 2, 5W)

Product Description

This 2 μ m PM fiber optical circulator is a three port passive device that transmits high power light from one port to another port in one direction while directs light propagating in the reverse direction to a third fiber port for any state of polarization. Agiltron's proprietary magnetic-optics technology and advanced micro-optic technique enable industrial leading performance in compact size, power handling, low loss, reliability, and low cost. Agiltron currently provides a full range of polarization-independent, polarization maintaining, and custom design versions with a broad wavelength coverage. We have experience to incorporate special fibers.

Features

- High Power Handling
- Low IL, PDL & TDL
- High Isolation
- High Reliability
- Cost Effective



Performance Specifications

2 μ m Circulator		Min	Typical	Max	Unit
Operation Wavelength		1950	2000	2040	nm
Insertion Loss ^{[1], [2]}			1.5	2 ^[3]	dB
PDL (Single mode)				0.1	dB
Extinction Ratio	PM fiber	18	20		dB
Return Loss ^[1]		50			dB
Isolation	Single State	20 ^[4]	25	30	dB
	Dual State	40	50	55	
Optical Power Handling CW ^[5]				5	W
ns Pulse Peak Power Handling				10	KW
Operating Temperature		-5		70	°C
Storage Temperature		-40		85	°C

[1]. Excluding connectors.

[2]. Using fiber centered at the operation band reduces loss

[3]. Longer wavelength has higher loss due to material absorption

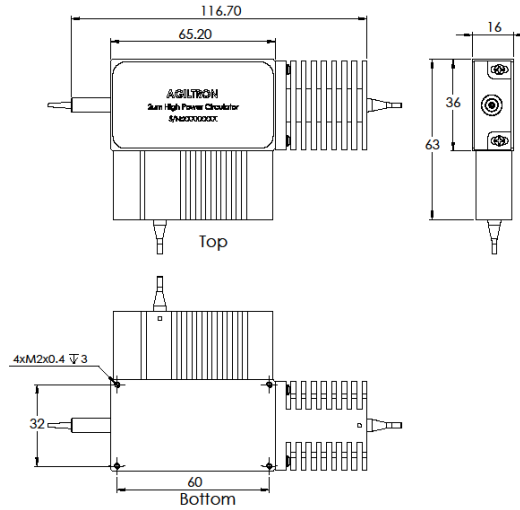
[4]. Measured at the center wavelength

[5]. Back Reflect < 10%. For >10% application, please call us.

Applications

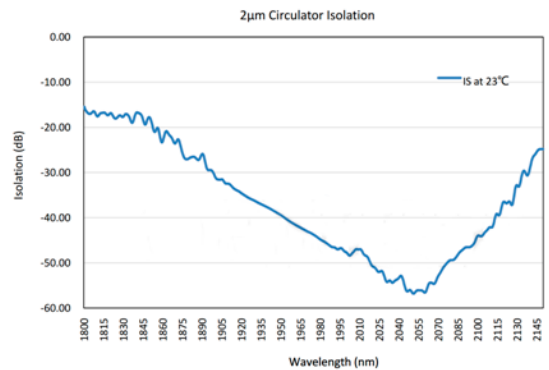
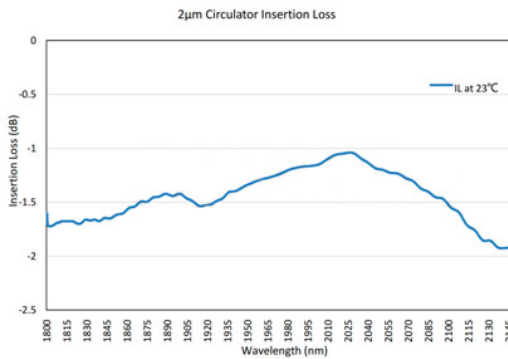
- Laser Pump Source
- Optical Fiber Amplifier
- Laser Manufacturing
- Test and Measurement

Mechanical Footprint Dimensions (mm)



*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

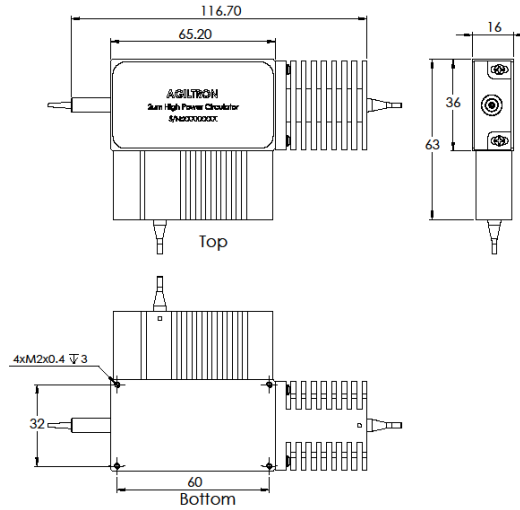
Typical Optical Spectrum Dual Stage



Ordering Information

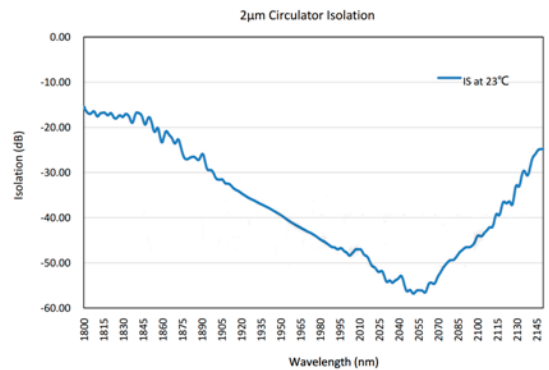
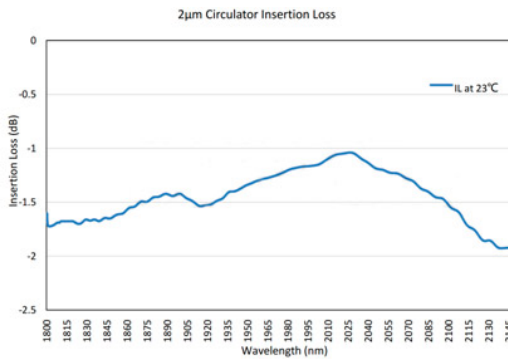
HPPC-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Stage	Type	Wavelength	Power handling	Working Axis	Fiber Type		Fiber Length	Connector
	Single=A Dual=B	CW=C Pulse=P	1950=1 2000=2 Special=0	0.3W = 0 1W=1 2W=2 5W=5	Fast Axis Blocked=F Both Axis working =B	PM1550 =1 PM1950 =2 PM2000 =3	Bare fiber=1 900um tube=2 3mm tube = 3 Special=0	0.25M=1 0.5M=2 1.0 M=3 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Special=0

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