

- Compact High Performance
- Low Insertion/Return Loss
- Low PDL/PMD
- Excellent Environmental Stability
- PM fiber and high power options available

OPTICAL CIRCULATOR



The Fiber Optic Circulators are non-reciprocal advanced passive devices that direct light sequentially from port 1 to port 2, port 2 to port 3 and so on in only one direction. Unlike Fiber Optic Isolators, Fiber Optic Circulators do not disregard backward propagating light from the input fiber, but rather route

it to another port. Circulators are used in Bi-Directional and High-Speed Communication Systems, DWDM Networks, Fiber Amplifiers, Fiber Sensors, OTDR Measurements.

SPECIFICATIONS*

PARAMETERS	VALUE	UNIT
Center Wavelength (λ_c)	1310, 1550 or 1064	nm
Operating Wavelength range	± 30	nm
Insertion Loss*	≤ 0.8 UPC ; ≤ 1.0 APC	dB
Isolation	≥ 40	dB
Isolation [Channel Peak]	≥ 50	dB
Polarization Dependent Loss	≤ 0.15	dB
Return Loss *	≥ 50	dB
Channel Cross Talk [Port1 to Port3]	≥ 50	dB
Polarization Mode Dispersion	≤ 0.05	ps
Power Handling**	500	mW
Operating Temperature	-40 to +85	$^{\circ}\text{C}$
Storage Temperature	-40 to +85	$^{\circ}\text{C}$
Package size	$\varnothing 5.5 \times 50$	mm

*Note: IL and RL tested with Connectors

** High Power handling available

ORDER CODES

CODE	N° OF PORTS	WAVELENGTH	FIBER TYPE	CONNECTOR TYPE	FIBER LENGTH
F4M-CIR	13 3 ports	31 1310nm	25 250 μm Bare Fiber	O None	05 0.5 m
	S Specify	55 1550nm	9L 900 μm Loose Tube	A SC/UPC	10 1m
		64 1064nm	S Specify	B SC/APC	S Specify
		S Specify		C FC/UPC	
				D FC/APC	
				E LC/UPC	
				Q LC/APC	
				S Specify	

ORDER CODE example: **F4M-CIR-13 - 31 - 25 - QQ- 10**

Datasheet-F4M-Rev 2.0 - Changes without prior notice

Specifications may change without notice. Display Product Photos Shown are samples for viewing, not actual products. Colours and styles may vary.

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