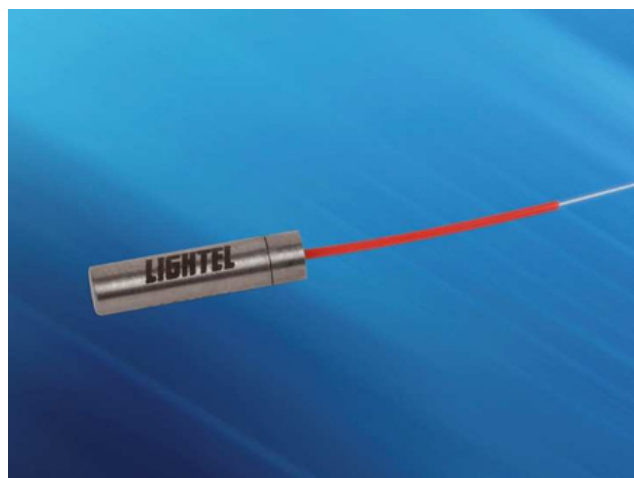


Broadband FRM

1550 nm, SM & PM

Faraday Rotator Mirrors (FRMs) are used in a number of fiber optic applications, including interferometric sensor systems. In general, FRM performance parameters are specified over a central wavelength and narrow temperature range. This means that the rotation angle will change over wavelength and temperature.

Lightel now offers a compact form factor, broadband FRM (BBFRM) that rotates the light 45 degrees (single pass) over a wavelength range of 1550nm \pm 30nm, and a temperature range of -20°C to +70°C. With a constant rotation angle within this bandwidth and operating temperature range, the broadband FRM can reduce noise dramatically for interferometric sensor systems.



➔ Specifications

Parameter	Specification
Center Wavelength	1550 nm
Bandwidth	± 30 nm
Insertion Loss	≤ 1.0 dB
Faraday Rotation Angle (single pass, within the bandwidth & operating temperature range)	45 ± 0.5°
Extinction Ratio (PM)	≥ 20 dB
PDL (SM)	≤ 0.05 dB
Maximum Power	300 mW
Operating Temperature	-20° C ~ + 70° C
Storage Temperature	- 40° C ~ + 85° C
Package Dimensions	5.0 mm (Φ) x 20 mm (L)

Note 1: All values specified are without connectors.

Note 2: SM fiber type: SMF-28e or compatible fiber.

Note 3: PM fiber type: PM 1550 Panda fiber.

Note 4: Other wavelengths available upon request.

➔ Ordering Information

<u>B</u>	<u>F</u>	<u>R M</u>	-	 Fiber Type SM: SM fiber PM: PM fiber	-	<u> 1 5 5 0 </u> Center Wavelength 15: 1550 nm	-	<u>A</u> Fiber Length A: 1 meter	-	 Pigtail Style (=Package style) B: bare fiber L: 900 μm loose tube	-	 Connector 0: None 7: LC/UPEC 1: FC/PC 8: LC/SPEC 2: FC/APC 9: Special 3: SC/ PC A: FC/UPEC 4: SC/APC B: SC/UPEC 5: FC/SPEC C: ST 6: SC/SPEC
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