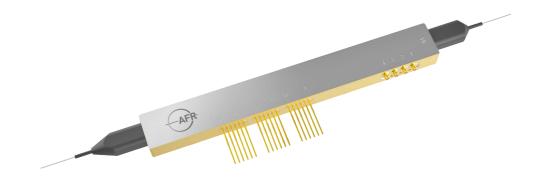


Coherent Modulator 400G/600G PM-QMZ



AFR Coherent modulator 400/600Gb/s PM-QMZ is explicitly designed to enable 400GE and beyond speeds on a single wavelength or carrier. This modulator is a high electro-optic bandwidth polarization multiplexed quad parallel Mach-Zehnder (PM-QMZ) that integrates into a hermatic package an input beam splitter, four parallel Mach-Zehnder modulators configured for I-Q modulation, a polarization combiner, and monitoring photodiodes for power and bias control.

Key Features

- 400Gb/s generated from four 64 Gbaud signals (polarization multiplexed 2 x 200Gb/s QPSK, plus FEC)
- Single ended
- 3dB electro-optic bandwidth exceeding 35 GHz
- Extinction ratio above 25 dB to enable complex modulation formats
- Insertion loss below 13 dB for high efficiency

Applications

- Coherent links at 400Gb/s on a single carrier
- DWDM over 10Gb/s infrastructure (with coherent detection)

Absolute Maximum Ratings

Parameters	Min.	Max.	Unit	Conditions
Storage temperature	-40	+85	°C	
Operating case temperature (Top)	- 5	75	°C	
Maximum RF input power (Electrical)		10	dBm	RF port, AC coupled
Operating wavelength, C-band	1530	1565	nm	
Maximum input power (Optical)		100	mW	CW

Top=25°C, unless otherwise specified

Ordering Information

For more information on this customized product to meet your requirement and their availability, please contact your local AFR account manager or AFR directly at sales@fiber-resources.com.

RoHS Compliance

This product is RoHS compliant.

Reliability Requirements

The coherent modulator 400/600Gb/ PM-QMZM is designed to meet Telcordia GR-468-Core and GR326 requirements.



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