

Optical Channel Monitor

Features / Benefits

- 50GHz or 100GHz ITU grids, C-band, L-band or C+L bands
- High adjacent channel isolation
- Excellent temperature stability
- Single port or multiple (2 to 4) port monitoring
- High accuracy in power and wavelength measurements
- Large dynamic range in power monitoring

Applications

- Real-time optical performance or channel monitoring of DWDM networks
- Optical add/drop monitoring and diagnostics
- Optical power for gain equalization in DWDM networks
- Real-time system error warning and alarming
- EDFA gain balancing



Lightwaves2020's Optical Channel Monitor (OCM) is an innovative and compact integrated module with multiple functions: optical channel monitor, optical performance monitor, optical wavelength meter, and DWDM spectrum analyzer.

The OCM, with Lightwaves2020's proprietary optical thin film technology and micro optics along with high speed electronics and advanced algorithm in signal processing, scans the wavelength range of C-, L- or C+L bands sequentially and provides accurate real-time and non-intrusive measurement or monitoring of optical channel power and wavelength with large dynamic range at ITU grids of 100GHz or 50GHz. Lightwaves2020's OCM, which has passed related Telcordia tests, is highly reliable. Compared with products by other suppliers, the OCM features compact size and low cost, and is capable of measuring/monitoring multiple lines simultaneously. Definitely, Lightwaves2020's high performance OCM is your best solution in DWDM network monitoring and other applications.

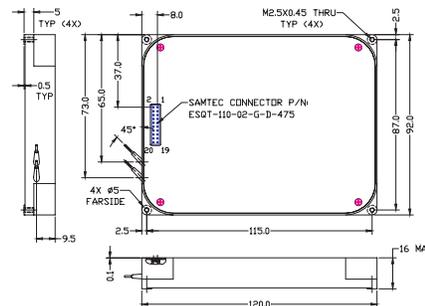


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Specifications

Parameters	Unit	Specification
Absolute Per-Channel Power Accuracy	dB	+/- 1
Relative Per-Channel Power Accuracy	dB	+/- 0.5
Absolute Wavelength Accuracy	pm	+/- 100
Input Per-Channel Power Range	dBm	-40 to -10
Input Total Optical Power Range	dBm	-40 to 7
Power Repeatability	dB	+/- 0.1
Polarization Dependent Loss	dB	0.3
Optical Return Loss	dB	45
Response Time (per channel)	ms	100 (without OSNR)
Interface	-	RS232
Power Consumption	W	< 5
Input Wavelength Tolerance	nm	ITU +/- 0.1
Max. Adjacent Channel Power Imbalance	dB	15
Max. Non-Adjacent Channel Power Imbalance	dB	20
Mechanical Dimension (2-Ports)	mm	120 x 92 x 12

Dimensions



Units: mm

Ordering Information

L	O	C	M	5	0	0	0	0	0	0			
Wavelength				Port Number		OSNR		Fiber Type		Fiber Length		Connector	
C = C-band L = L-band				1 = one port 2 = two port		R = with OSNR N = w/o OSNR		0 = SMF-28e 1 = 100GHz 5 = 50GHz		1 = 1.0m 5 = 1.5m		0 = None 1 = FC/UPC 2 = FC/APC 3 = SC/UPC 4 = SC/APC 5 = LC/UPC 6 = MU/UPC	

* This product information is subject to change without notice
 * Specifications for products with OSNR feature is not updated yet



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