

MEMS OPTICAL CHANNEL MONITOR

DiCon's Optical Channel Monitor (OCM) is an advanced optical subsystem that scans DWDM networks and reports the power of each 10/40/100G channel in real time. Feedback from the OCM can be used to optimize optical power levels, identify performance drift, and verify system functionality. An optional integrated switch allows up to 12 separate input ports to be monitored sequentially.



FEATURES

- Excellent MEMS durability, thermal stability, and repeatability
- 10/40/100G Capable (Modulation Format Independent)
- 50GHz or 100GHz Channel Spacing within C or L Band
- Monitors up to 12 separate input ports
- 30 dB dynamic range
- Flexgrid Option



MEMS OPTICAL CHANNEL MONITOR

OPTICAL SPECIFICATIONS

PARAMETER		RATING
Wavelength Range	C-Band	1529 to 1564 nm
	L-Band	1575 to 1610 nm
Channel Spacing		50 or 100GHz
Signal Data Rate ¹		10, 40, & 100 Gb/s
Per Channel Input Power		-40 to -10 dBm
Aggregate Input Power		-40 to +10 dBm
Absolute Power Accuracy ²		± 1 dB max
Aggregate Power Accuracy		± 1 dB max
Power Repeatability ²		± 0.1 dB max
Channel Power Uniformity		15 dB max
Optical Return Loss		-40 dB max
Per Port Scanning Time ³		<500 ms
Durability		1 billion cycles
Operating Temp		-5 to 75 °C
Storage Temp		-40 to 85 °C
Fiber Type		9/125 μm SM

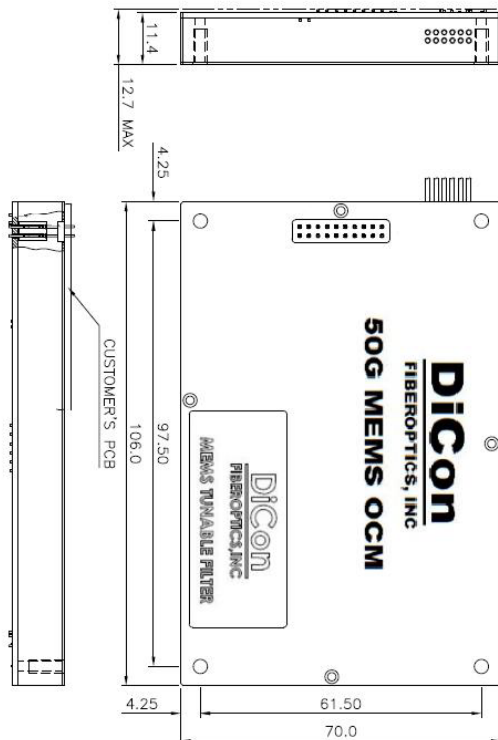
1. Modulation format independent
2. With adjacent channel power uniformity <10dB.
3. Includes scan, process, and report.

ORDERING INFORMATION

MPM - - - - 9 - 9/LT - -

Channel Spacing	
50	50 GHz
100	100GHz
Wavelength Range	
15	1529-1564 nm
16	1575-1610 nm
Port Count	
1	1 Port
X	Specify (up to 12)
Fiber Type	
9	9/125 μm single mode fiber
Jacket Type	
9/LT	900 μm loose tube
Connector Type	
FC	FC/SPC
FC/APC	FC/APC
N	NONE
<i>Also Available: SC, SC/UPC, SC/APC, ST, ST/UPC, LC</i>	
Pigtail Length	
1	1 Meter
X	Specify X Meters

MECHANICAL DIMENSIONS (Units: mm)



ELECTRICAL SPECIFICATIONS

PARAMETER		RATING
Input Power	Supply V ₁	12 V
	Supply V ₂	5.0 V
	Supply V ₃	3.3 V
Power Consumption		< 5 W
Control Type		UART
Baud Rate		115200 bps