50 GHz OPTICAL CHANNEL MONITOR

DiCon's Optical Channel Monitor is an advanced optical subsystem that scans DWDM networks and reports the power of each 10/40G channel in real time. Feedback from the Optical Channel Monitor 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
- Superior optical performance
- Compact form factor
- 10/40G Capable
- 30 dB dynamic range
- Monitors up to 12 separate input ports
- RS-232 control interface

DiCon
FIBEROPTICS, INC

50 GHz OPTICAL CHANNEL MONITOR

OPTICAL SPECIFICATIONS

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

1. With adjacent channel power uniformity <5 dB.
2. Includes scan, process, and report.

ORDERING INFORMATION

MPM - 50 - ☐ - ☐ - 9 - 9/LT - ☐ - ☐

Channel Spacing

50	50 GHz

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

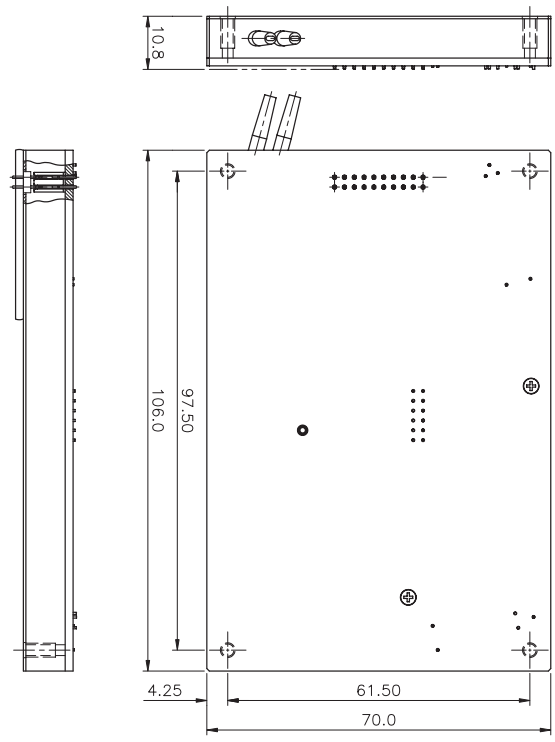
Also Available: SC, SC/UPC, SC/APC, ST, ST/UPC, LC

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		RS-232
Baud Rate		115200 bps

DiCon Fiberoptics, Inc. 1689 Regatta Blvd. Richmond, CA 94804 Tel. (510) 620-5000 Fax. (510) 620-4100 www.diconfiberoptics.com