1x2(2x2)Special Wavelength MEMS Optical Switch

OPNETI Special Fiber MEMS switch is based on silicon MEMS technology and uses micro-mechanical mirrors to switch light. The switch is available in either latching or non-latching variants and has a very fast response time below 1ms and below 1.5dB insertion loss. The miniature package withstands rugged enviornment and is well suited for direct mounting on printed circuit board. The switch is qualified according to Telcordia GR 1221.

Features

Low insertion loss & PDL
High Crosstalk
Fast response time
Mini Size
Specialty Fiber

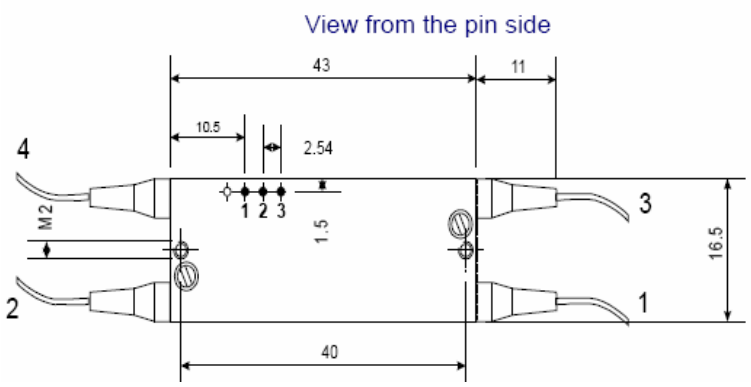
Applications

Source Selection
Instrument

Specifications

Parameter	Single mode
Center Wavelength	488,633, 780,830,980,1064
Wavelength range (nm)	Cut Off +200nm
Insertion loss (dB)	≤1.5 (Typ 0.7)
Polarization dependent loss (dB)	≤0.05
Return Loss (dB)	≥ 50 (Typ 55)
Cross talk (dB)	≥ 60 (Typ 75)
Repeatability(dB)	≤0.001
Switch speed (ms)	≤1 (Typ 0.5)
Durability (cycles)	1 billion
Operating Voltage (V)	<5
Power Consumption (mW)	≤ 10 (Typ 5mW)
Operation temperature(°C)	0~70 C
Storage temperature (°C)	-40~85
Package Size (L x W x H) (mm)	40x 16.5 x 9.5

PIN Connections



1 5 V supply, (2 mA)
2 selector 0 V: Bar
5 V: Cross
3 ground 0 V

Ordering Information

MSW	Port Type	Wavelength	Mode	State Monitor	Pigtail Type	Length	Connector
	1x1 1x2 2x2	488 633 780 830 980 1064	N=Non-Latching L=Latching	WO=no monitor W=position monitor	250=250um bare fiber 900=900um loose tube	1=1.0m	NE=None FA=FC/APC FC=FC/PC SA=SC/APC SC=SC/PC ST=ST/PC LC=LC/UPC XX: Specify