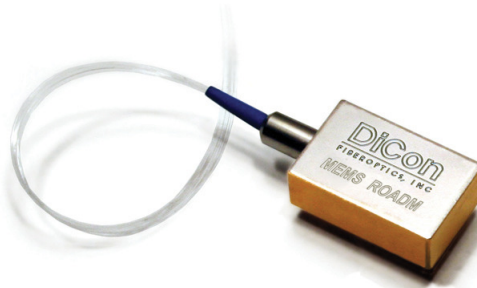


MEMS WDM ON/OFF OPTICAL SWITCH

DiCon's MEMS WDM On/Off Switch provides single channel MUX and DEMUX functionality in a compact package. The switch combines DiCon's proprietary thin film coating and MEMS technologies. The thin film filter is used to DEMUX a single channel from the input signal, while the MEMS mirror changes the coupling of the DEMUX signal with the output fiber.

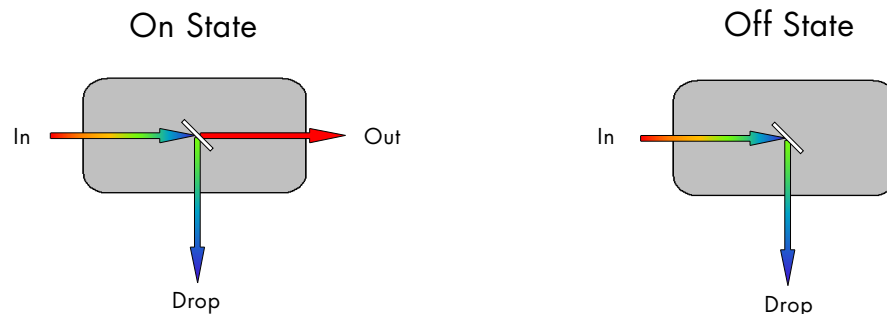


FEATURES

- Proven MEMS Durability and Reliability
- Compact Form Factor
- Fast Switching Time
- Unique Scalable Configuration
- Based on GR-1221 Qualified Platform

APPLICATIONS

- ROADM Networks
- Secure Communications



MEMS WDM ON/OFF OPTICAL SWITCH

OPTICAL SPECIFICATIONS¹

PARAMETER		RATING
Wavelength Range		1421 to 1621 nm.
Channel Spacing		20 nm
Passband		13 nm min.
Insertion Loss ²	In-Drop	1.0 dB max.
	In-Out	0.7 dB max.
Isolation	In-Drop	25 dB min.
	In-Out	12 dB min.
Back Reflection		40 dB min.
Switching Time		30 ms max.
Ripple ³		0.3 dB max.
PDL		0.1 dB max.
Directivity / Crosstalk		35 dB min.
Repeatability ⁴		+/- 0.05 dB max.
Durability		10 ⁹ cycles min.
Optical Power		500 mW max.
Operating Temp		0 to 70°C
Storage Temp		-40 to 85°C
Fiber Type		9/125 μm single mode

1. Specifications are without connectors
2. IL is measured at CWL, 23°C
3. Within channel passband
4. Repeatability is defined after 100 cycles.

ORDERING INFORMATION

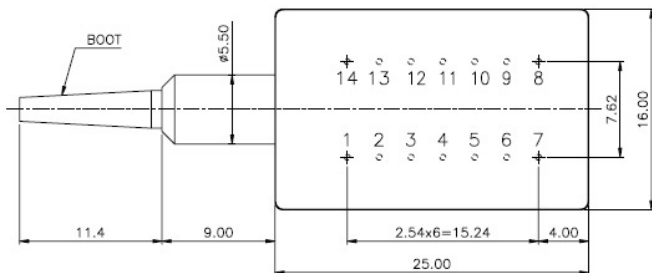
MS1 - 10/WDM - □ - □ - 9/BF - □ - □

Product Code	MS1 MEMS Switch
Switch Configuration	10/WDM On/Off Switch (WDM)
Control Interface	TTL TTL I ² C I ² C
CWDM Center Wavelength	XXXX Specify Center Wavelength Available CWL: 1431, 1451, 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611
Fiber and Jacket Type	9/BF Corning SMF-28, bare fiber Or other equivalent 9μm Singlemode fiber
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 Tolerance is +/- 10 cm

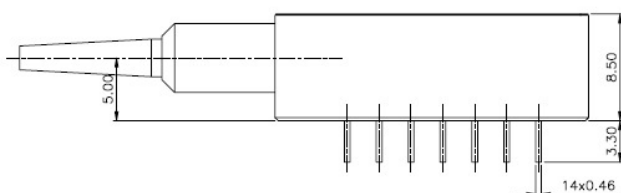
MECHANICAL DIMENSIONS

(Units: mm)

Top View



Side View



ELECTRICAL SPECIFICATIONS

PARAMETER	RATING
Latching Type	non-latching
Control Type	I ² C and TTL
Vcc Voltage	12 VDC
Power Consumption	170 mW max.
Vcc Damage Threshold	15 VDC