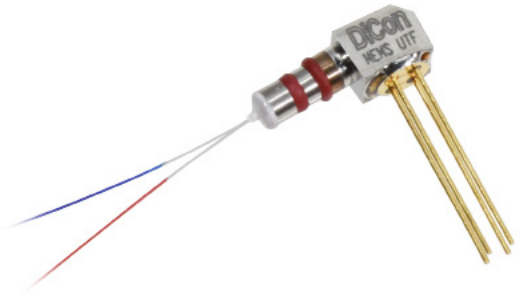
MEMS ULTRA-COMPACT WIDEBAND TUNABLE FILTER

DiCon's MEMS Ultra-Compact Wideband Tunable Filter is optimized for ASE noise suppression and signal clean up applications. It features a compact form factor for easier integration and utilizes DiCon's proven high reliability, long life MEMS technology.

This tunable filter operates by using a grating to de-multiplex the incoming light and then precisely directs the requested passband to the output fiber, using a patented ultra-stable and reliable MEMS mirror.



FEATURES

- Ultra-Compact Design
- Typical 3 dB Bandwidths from 100 to 250 GHz
- Proven MEMS Durability & Reliability
- Hermetically Sealed
- Fast Tuning Speed
- Extremely Low Power Consumption ≤ 160 µW

APPLICATIONS

- Noise Suppression (eg. for ASE noise)
- Signal Clean Up

DiCon FIBEROPTICS

MEMS ULTRA-COMPACT WIDEBAND TUNABLE FILTER

OPTICAL SPECIFICATIONS[1]

PARAMETER	RATING
IL @ Peak[2]	3.0 dB max.
Bandwidth @ 3 dB	Contact DiCon for details *Typically from 100 to 250 GHz other bandwidth options are available*
Back Reflection	-35 dB max.
PDL[2]	0.30 dB max.
Tuning Resolution	10 pm
Tuning Speed[3]	30 ms max.
Optical Power	500 mW max.
Durability	1 billion cycles min.
Operating Temp	-5 to 70 °C
Storage Temp	-40 to 85 °C
Fiber Type	9/125 μm singlemode

1. All specifications are referenced without connectors.
2. Measured at room temperature.
3. Only guaranteed when used with optimized control HW/FW.

ORDERING INFORMATION

UTF - ☐ - ☐ - 9 - 2B - ☐ - ☐

Bandwidth

X	Contact DiCon for details

Tuning Range

13	1290-1330 nm
15	1528-1568 nm
16	1570-1610 nm

Custom Tuning Range Available Upon Request

Fiber Type

9	9/125 μm singlemode

Jacket Type

2B	250 μm bare fiber

Connector Type

LC	LC/SPC
LC/APC	LC/APC
N	NONE

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

Pigtail Length

1	1 Meter
X	Specify X Meters

ELECTRICAL SPECIFICATIONS

PARAMETER	RATING
Latching Type	Non-latching
Control Type	Direct Voltage[1]
Vcc Voltage	0-45 VDC
Vcc Damage Threshold	50 VDC
Power Consumption	160 uW max.

1. Tolerance is +/-10 mV to meet optical specifications.