60dB High Isolation Manual Tunable Filter

0.6 nm / 75 GHz Passband

DiCon's High Isolation Manual Tunable Filter is used to select a narrow passband from a 30 nm wavelength range.

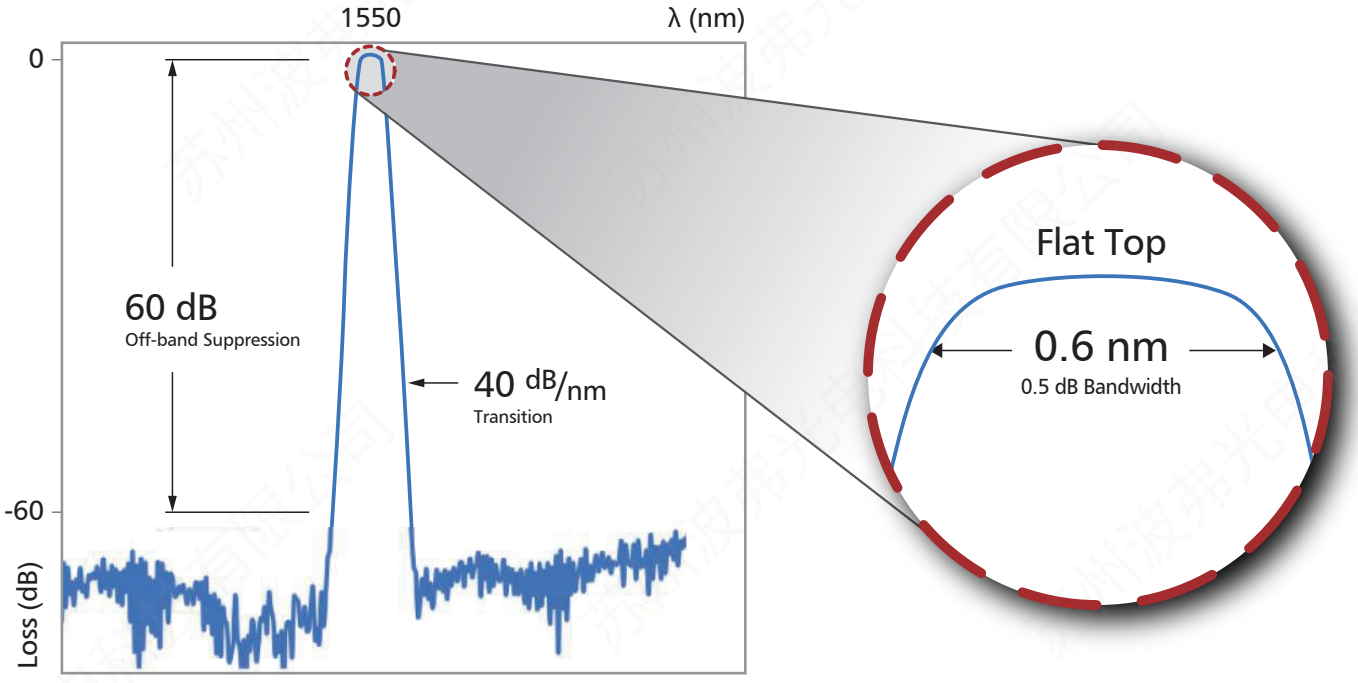
The user can manually select the passband by turning the precise micrometer adjustment mechanism, and the selected passband can be locked in place mechanically.

FEATURES

- Off-band suppression > 60 dB
- Flat top passband
- 0.6 nm passband @ 0.5 dB
- C-band and L-band options available

APPLICATIONS

- Increased laser signal to noise ratio
- ASE noise cleanup for EDFA.
- Channel selection for multi-channel signals
- Laboratory test and measurement systems



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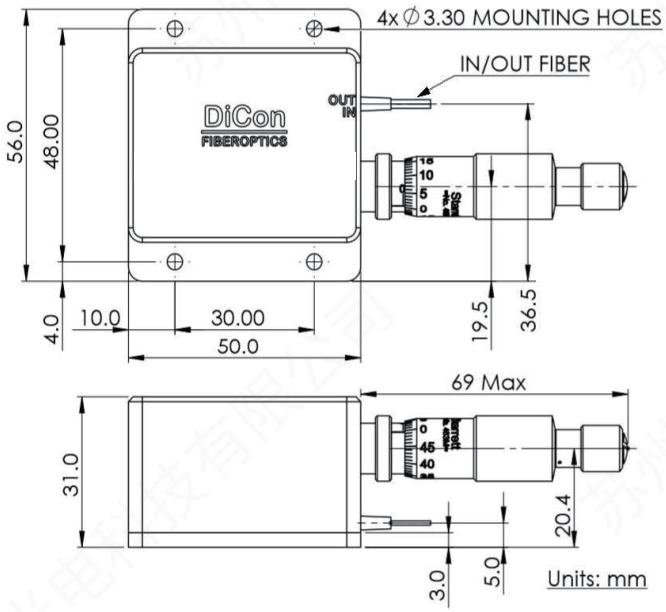
OPTICAL SPECIFICATIONS[1]

PARAMETER		RATING
Tuning Range	C-Band	1535 to 1565 nm
	L-Band	1565 to 1595 nm
Bandwidth	@ 0.5 dB	0.6 nm min.
	@ 3 dB	1.0 nm min.
	@ 20 dB	2.3 nm max.
Min IL @ Peak[2]		1.5 dB typ. (2.5 dB max.)
Tuning Resolution		0.05 nm typ.
PDL		0.10 dB typ. (0.28 dB max.)[3]
Back Reflection		-55 dB typ. (-40 dB max.)
Optical Power	Standard	500 mW max.
	High Power	1.5 W max.
Operating Temperature		-5 to 70°C
Storage Temperature		-40 to 85°C
Fiber Type		9/125 μm single mode

1. All specifications are without connectors
2. IL measured at center wavelength @ 25°C
3. Typical PDL is 0.13 dB @ 1550 nm; 0.02 dB @ 1565 nm; 0.28 dB @1535 nm

MECHANICAL DIMENSIONS



ORDERING INFORMATION

TF2 - ☐ - 0.6 - 9/9LT - ☐ - ☐ - ☐

Tuning Range

1550	1535-1565 nm
1580	1565-1595 nm

Bandwidth

0.6	0.6 nm @ 0.5 dB

Fiber and Fiber Jacket Type

9/9LT	9/125 μm single mode with 900 μm Loose Tube

Connector Type

FC/UPC	FC / UPC
FC/APC	FC / APC
SC/UPC	SC / UPC
SC/APC	SC / APC
LC/UPC	LC / UPC
LC/APC	LC / APC
N	No connectors

Other connectors available upon request

Optical Power

S	Standard (500 mW)
H	High Power (1.5 W)

Pigtail Length

1	1 Meter
X	Specify X Meters