

Telecom Filters

Product Description:

Precision Micro-optics offers cutting-edge optical thin film products for highly demanding fiber optics telecom applications with a very competitive price. The products include DWDM filters, gain flattening filters, long and short pass filters. These filters feature low insertion loss and ripples, high isolation, excellent thermal stability, as well as others.

Specifications (200GHz DWDM Filters):

Central Wavelength	ITU Grid
Bandwidth at 0.5dB	> 0.8 nm
Bandwidth at 25dB	< 2.2 nm
Passband Ripple	< 0.3 dB
Peak Insertion loss	< 0.25 dB
Polarization Dependent Loss	< 0.05 dB
Passband Isolation	> 13 dB
Thermal Wavelength Shift	1.4 pm/ ° C
AR Coating on backside	< 0.2%
Operation Temperature	-5 ~ 70 ° C
Dimension Tolerance	±0.1mm

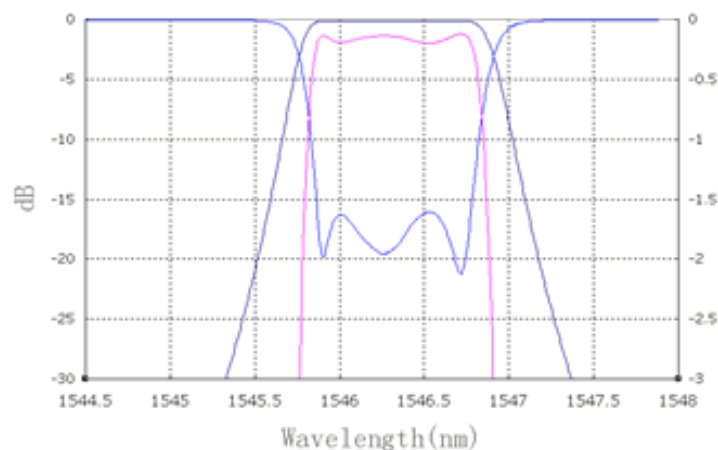


Figure 1: A typical 200GHz filter spectral characteristics

Specifications (100GHz DWDM Filters):

Central Wavelength	ITU Grid
Bandwidth at 0.5dB	> 0.45 nm
Bandwidth at 25dB	< 1.2 nm
Passband Ripple	< 0.3 dB
Peak Insertion loss	< 0.4 dB
Polarization Dependent Loss	< 0.05 dB
Passband Isolation	> 13 dB
Thermal Wavelength Shift	1.1 pm/°C
AR Coating on backside	< 0.2%
Operation Temperature	-5 ~ 70 °C
Dimension Tolerance	±0.1mm

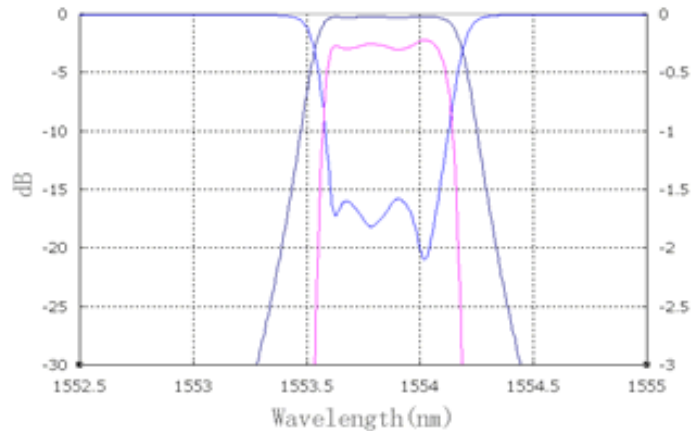


Figure 2: A typical 100GHz filter spectral characteristics

Specifications (CWDM Filters):

Central Wavelength	147x, 149x, 151x, 153x, 155x, 159x, 161x (x=0,1)
Bandwidth at 0.3dB	> 15 nm
Bandwidth at 30dB	< 25 nm
Passband Ripple	< 0.2 dB
Peak Insertion loss	< 0.2 dB
Polarization Dependent Loss	< 0.04 dB
Passband Isolation	> 13 dB
Thermal Wavelength Shift	2 pm/°C
AR Coating on backside	< 0.2%
Operation Temperature	-5 ~ 70 °C
Dimension Tolerance	±0.1mm

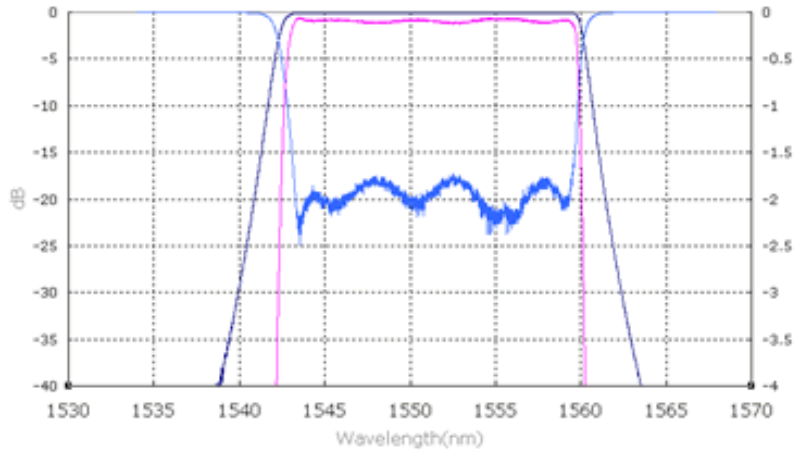
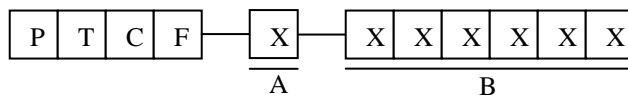


Figure 3: A typical 100GHz filter spectral characteristics

If you have inquiries regarding gain flattening filters, long and short pass filters as well as others, please send us your SPEC and requirements. We will evaluate your SPEC and requirements and give you a response in 24 hours

Ordering Information:



A	Filter Type	1 = 100GHz DWDM Filters
		2 = 200GHz DWDM Filters
		3 = CWDM Filters
		4 = Gain Flattening Filters
		5 = Long Pass Filters
		6 = Short Pass Filters
		0 = Special
B	Wavelength	155092 = 1550.92 nm for DWDM filters
		155100 = 1551.00 for CWDM filters
		000000 for other types of filters