

Red/Blue Splitter/Long Wavelength Pass or Short Wavelength Pass

The terra-Q family consists of the terra-Q 100, terra-Q 50, terra-Q 25, long wavelength pass and short wavelength pass filter products. These filters form the basic building blocks for a wide range of optical filtering products for dense wavelength division multiplexing (DWDM) optical systems. The terra-Q family is based on time-tested thin-film interference filter technology, the standard by which other filter technologies are measured.

Features

- ITU and Custom Wavelengths
- Low-Loss Passband
- Deep reflection notch
- Accurate Wavelength Centering
- High Channel Rejection
- Excellent Temperature Stability

Applications

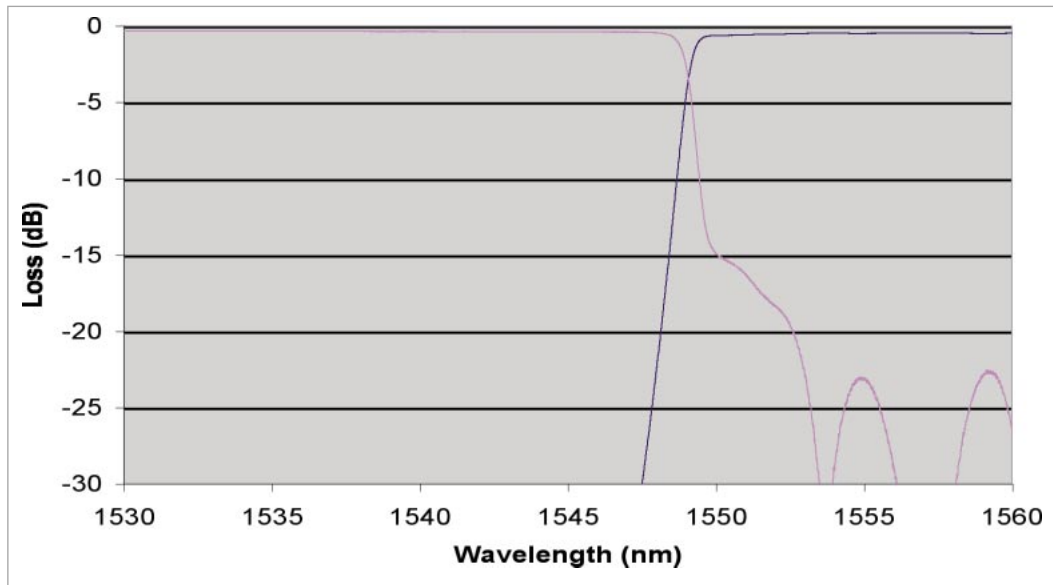
- Red/Blue Splitter
- DWDM Multiplexer and DeMultiplexer
- Wavelength selective routing

Compliance

- Telcordia 1221



Red / Blue Splitter



Preliminary Specifications*

Parameter	Unit	Long Wavelength Pass (LPF)	Short Wavelength Pass (SPF)
Transmitted Channels			
Transmitted Frequencies	THz	191.900 to ($f_T^* - 0.200$)	f_T^* to 195.900
Insertion Loss	dB	1.0	1.0
Insertion Loss Variation	dB	0.3	0.3
Adjacent Band Region Isolation at SPF: ($f_T^* - 0.2$) LPF: f_T^*	dB	15.0	15.0
Polarization Dependent Loss	dB	< 0.15	< 0.15
Reflected Channel			
Reflected Wavelengths	dB	f_T^* to 195.900	191.900 to ($f_T^* - 0.200$)
Stop Band Isolation at: SPF: 191.900 to ($f_T^* - 0.200$) LPF: f_T^* to 195.900	dB	15.0	15.0
Dimensions (W x D)	mm	34 x 5.5	34 x 5.5
Operating Temperature	°C	-5 to 70	-5 to 70
Storage Temperature	°C	-40 to 85	-40 to 85

Note: all parameters measured over all polarization states and environmental conditions

* f_T^* is customer specific. Contact Bookham Technology for your requirements.

