

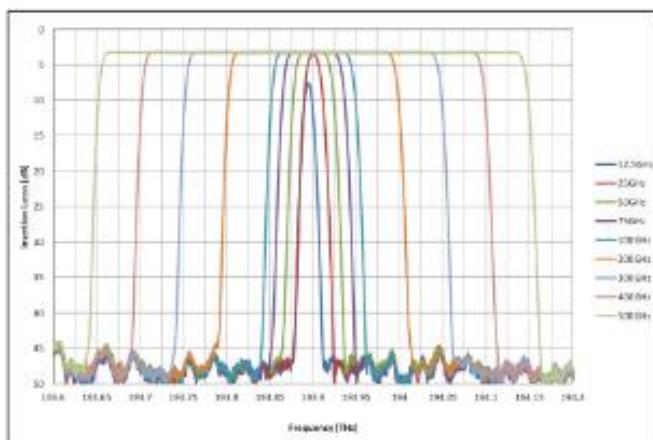
OSG20 Twin Programmable Optical Filters

OSG20 Twin Optical Spectrum Generator programmable optical filters feature two independently controlled filters in a single package. All functions of the OSG20 are controlled by a PC via an intuitive user interface.

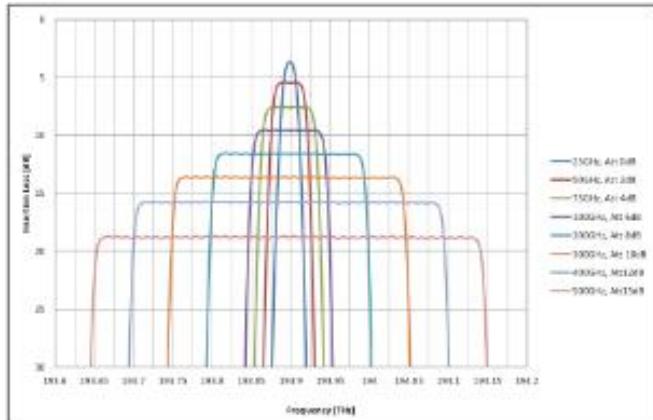


Dual high performance filters (equivalent to 2x OSG10) in one package

- Available in C or L band
- Low insertion loss: 3 dB typical
- Low PDL: < 0.3 dB
- High channel isolation: > 40 dB
- Wide dynamic range of attenuation control: 0 to 20 dB
- Variable passband width from 12.5 GHz to 4800 GHz



- Seamless bandwidth tuning in increments of 12.5 GHz
- Virtually no insertion loss ripple across filter slices
- High extinction
- Variable passband width from 12.5 GHz to 4800 GHz



- Simultaneous control of amplitude and passband width
- Linear dynamic range of attenuation from 0 to 20 dB
- Variable passband width from 12.5 GHz to 4800 GHz



- Intuitive user interface with sliders, buttons, and drop down menus
- Direct and instantaneous control of filter slices
- User can control each filter slice independently, in contiguous bands, or in arbitrary groups
- Pre-set filter configurations can also be downloaded from a user-generated file

OSGao Specifications and Characteristics

Parameter	Specification	
Operating Spectral Range	C-band: 1572 nm to 1615 nm, 1615 nm to 1662 nm L-band: 1570 nm to 1608 nm, 1665 nm to 1693 nm	
Insertion Loss	< 3 dB, typ. < 4.5 dB, max.	
Bandwidth setting range	C-band: 0.01 nm to 38 nm, 14.5 GHz to 4800 GHz L-band: 0.01 nm to 40 nm, 14.5 GHz to 4800 GHz	
Number of addressable filter slices (Filter slices are centered on ITU-T Grid)	C-band: 968 L-band: 252	Filter slices are centered on ITU-T Grid and can be combined to make arbitrary filter shapes
Bandwidth of each fiber slice	0.1 nm, 10.5 GHz	
Center frequency accuracy of each filter slice	± 0.0001 nm, ± 0.5 GHz	
Dynamic range of attenuation control for each filter slice	0 dB to 35 dB	
Attenuation step size	0.1 dB	
Attenuation accuracy	-0.05 dB or 5% of attenuation, whichever is greater	
Polarization Dependent Loss (PDL)	< 0.3 dB, max. up to 30 dB attenuation	
Extinction	> 40 dB	
Return loss	> 40 dB	
Fiber Type	SMF-28 or equivalent	
Connector Type	FC/PC Other connector types including PC/APC, SC/UPC, SC/APC available upon request	
Minimum Input Power	< 20 dBm	
Response Time	< 50 ms	
Operating Temperature	-10 to +55 °C	
Dimensions	247 x 238 x 44 mm	
Power Consumption	< 10 W	

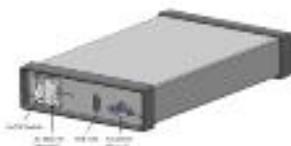
Dimensions and Layout

Dimensions (W x L x H): 247 x 238 x 44 mm

Front View



Rear View



Rear view with mounting flanges also available upon request

Ordering Information

Product Code: OSGao-XX-nn

	OSGao Options
OSGao-XX-nn	SM = Single Mode PM = Polarization Maintaining
OSGao-XX-nn	xx = C-Band xx = L-Band