

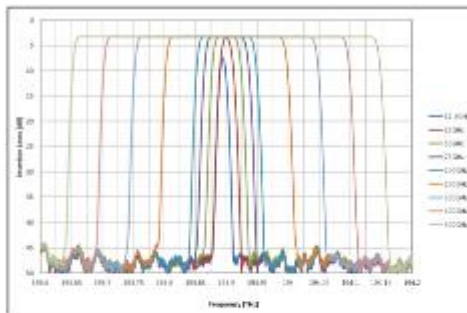
OSG10/OSG12 Programmable Optical Filters

OSG10 and OSG12 programmable optical filters are versatile test instruments that can be controlled by a PC via an intuitive user interface.

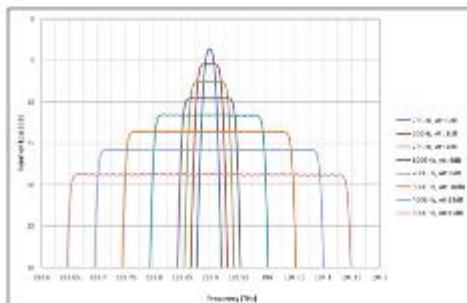


High performance programmable optical filter

- Available in C or L band
- 6.25 GHz filter slices for OSG12
- 12.5 GHz filter slices for OSG10
- Low insertion loss: 3 dB typical
- Low PDL: < 0.3 dB
- High 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



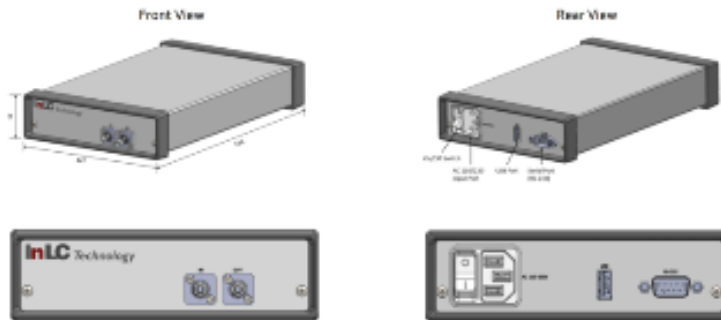
- Intuitive user interface with sliders, buttons, and drop-down menus
- Direct and instantaneous control of filter slices
- User can control each filter slice independently, in contiguous bands, or in arbitrary groups
- Pre-set filter configurations can also be downloaded from a user-generated file

OSG10/OSG12 Specifications and Characteristics

Parameter	Specification	
Operating Spectral Range	C-band: 1527.60 to 1565.90 nm, 191.50 THz to 196.25 THz	
	L-band: 1570.26 to 1608.96 nm, 186.35 THz to 190.7 THz	
Insertion Loss	≤ 3.5 dB, typ. ≤ 4.5 dB, max.	
Bandwidth setting range	C-band: 0.1 nm to 30 nm, 12.5 GHz to 4800 GHz	
	L-band: 0.5 nm to 37 nm, 12.5 GHz to 4400 GHz	
Number of independently addressable filter slices (Filter slices are centered on ITU-T Grid)	OSG10	C-band: 384
		L-band: 352
	OSG12	C-band: 768
		L-band: 704
Bandwidth of each filter slice	0.1 nm, 12.5 GHz	
Center frequency accuracy of each filter slice	± 0.02nm, ± 2.5 GHz	
Dynamic range of attenuation control for each filter slice	0 to 20 dB	
Attenuation step size	0.1 dB	
Attenuation accuracy	≤ 0.5 dB or 5% of attenuation, whichever is greater	
Polarization Dependent Loss (PDL)	≤ 0.25 dB, typ. ≤ 0.3 dB, max. up to 10 dB attenuation	
Extinction	≥ 40 dB	
Return Loss	≥ 40 dB	
Fiber Type	G.652 single mode fiber	
Connector Type	FC/APC Other connector types including SC/APC, SC/APC available upon request	
Maximum Input Power	+27 dBm	
Response Time	≤ 50 ms	
Operating Temperature	15 to 45 °C Extended temperature range available upon request	
Dimensions	147 x 238 x 44 mm	
Power Consumption	≤ 10 W	

Dimensions and Layout

Dimensions (W x L x H): 147 x 238 x 44 mm



Rackmount version with mounting flanges is also available upon request

Ordering Information

Product Code: OSG10-XX-nn
OSG12-XX-nn

OSG10/OSG12 Options	
OSG10-XX-nn OSG12-XX-nn	SM = Single Mode PM = Polarization Maintaining
OSG10-XX-nn OSG12-XX-nn	01 = C Band 02 = L Band