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OSG10 and OSG20 Programmable Filters

OSG10 and OSG20 programmable optical filters are versatile test instruments that can be controlled by a PC via an intuitive user interface to create arbitrary filter shapes.



LC Technology

OSG10 Programmable Optical Filters have one input port and one output port



OSG20 Dual Programmable Filters feature two independently addressable filters in one package, the equivalent of 2x OSG10

OSG10 and OSG20 Specifications and Characteristics

Specifications are identical for OSG10 Single Flexible Grid Programmable Filter and OSG20 Dual Flexible Grid Programmable Filter. In the case of OSG20 the specifications apply for each input/output pair.

Parameter	Specification		
Operating Spectral Range	C-band: 1527.60 to 1565.50 nm, 191.50 THz to 196.25 THz		
	L-band: 1572.06 to 1608.76 nm, 186.35 THz to 190.7 THz		
Insertion Loss	≤ 3.5 dB, typ. ≤ 4.5 dB, max.		
Bandwidth setting range	≤ 4.5 dB, max. C-band: ≤ 0.1 nm to 38 nm, 12.5 GHz to 4800 GHz		
	L-band: ≤ 0.1 nm to 30 nm, 12.5 GHz to 4400 GHz		
Number of addressable filter slices (Filter slices are centered on ITU-T Grid)	C-band: 384	and can be combined to make arbitrary filter shapes	
	L-band: 352		
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	o 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)	≤ 0.15 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/SPC		
	Other connector types including FC/APC, SC/SPC, 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 × 238 × 44 mm		

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Ordering Information

Product Code: OSG10-XX-nn OSG20-XX-nn

OSG10 Options		
OSG10- XX -nn	SM = Single Mode	
OSG20 -XX- nn	PM = Polarization Maintaining	
OSG10-XX- nn	o1 = C Band	
OSG20-XX- nn	o2 = L Band	
	o399 = Custom options	

All OSG units are configured with FC/SPC connectors by default. Other connectors including FC/APC, SC/SPC, and SC/APC are available upon request.

Ordering Examples:

- 1. OSG10-SM-01 = Single Programmable Filter, Single Mode, C-band spectral range
- 2. OSG10-PM-02 = Single Programmable Filter, Polarization maintaining, L-band spectral range
- 3. OSG20-SM-01 = Dual Programmable Filter, Single Mode, C-band spectral range

All units are shipped with the OSG Control Interface software and a User Manual

InLC offers best-in-class WSS Modules, Optical Components, and Test & Measurement Instruments based on LC and LCoS technology.

