

OSG30 1x2/2x1 Programmable Optical Filters

OSG30 1x2/2x1 programmable optical filters offer the functionality of interleaver configurations and other switching configurations with very high port isolation. OSG30 filters are controlled by a PC via an intuitive user interface.



Switching programmable filter configurable as 1x2 or 2x1

- Available in C or L band
- Programmable for configuration as a 25, 50, or 100GHz interleaver
- High port isolation: > 40 dB
- High extinction: > 40 dB
- Wide dynamic range of attenuation control: 0 to 20 dB
- Variable passband width from 12.5 GHz to 4800 GHz

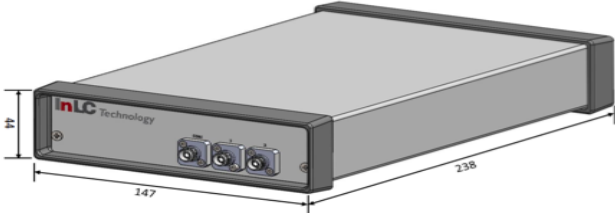
OSG30 Specifications and Characteristics

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	≤ 6.5 dB, typ. ≤ 7.0 dB, max.	
Bandwidth setting range	C-band: ≤ 0.1 nm to 38 nm, 12.5 GHz to 4800 GHz	
	L-band: ≤ 0.1 nm to 37 nm, 12.5 GHz to 4400 GHz	
Number of addressable filter slices (Filter slices are centered on ITU-T Grid)	C-band: 384	Filter slices are centered on ITU-T Grid 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	
Range of attenuation 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)	≤ 0.15 dB, typ. ≤0.3 dB, max. up to 10 dB attenuation	
Port Isolation	≥ 40 dB	
Extinction	≥ 40 dB	
Return Loss	≥ 40 dB	
Fiber Type	SMF-28 or equivalent	
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 x 238 x 44 mm	

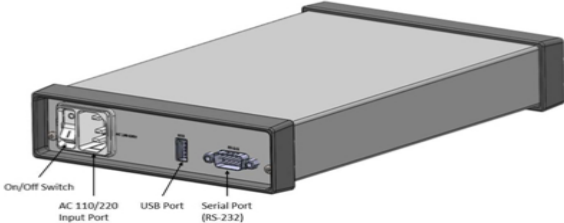
Dimensions and Layout



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

Front View



Rear View





Rackmount version with mounting flanges also available upon request

Ordering Information

Product Code: OSG30-XX-nn

OSG30 Options	
OSG30-XX-nn	S1 = Single input, dual outputs (1x2) switch
	S2 = Dual inputs, single output (2x1) switch
	P1 = PM, Single input, dual outputs (1x2) switch
	P2 = PM, Dual inputs, single output (2x1) switch
OSG30-XX-nn	o1 = C Band
	o2 = L Band
	o3...99 = 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:

- OSG30-S1-o2 = 1x2 programmable filter, L-band spectral range
- OSG30-P1-o1 = 1x2 programmable filter, C-band spectral range

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

[Please contact us regarding orders and inquiries](#)

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