

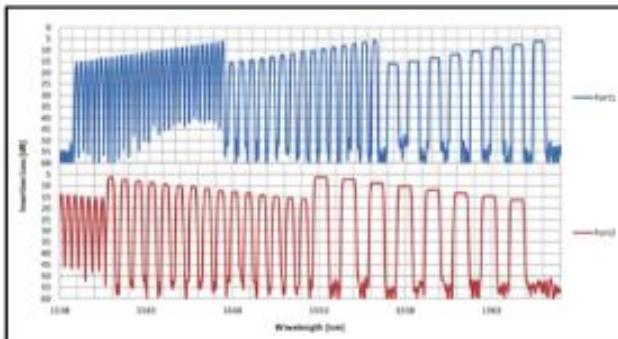
OSG30 1x2/2x1 Programmable Optical Filters

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



- Programmable interleaver with variable bandwidth in increments of 12.5 GHz
- Very high extinction: > 40 dB
- Very high port isolation > 40 dB
- Linear dynamic range from 0 to 20 dB



- 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

OSG30 Specifications and Characteristics

Parameter	Specification	
Operating Spectral Range	C-band: 1527.60 to 1565.50 nm, 190.50 THz to 196.25 THz	
	L-band: 1570.00 to 1628.76 nm, 186.35 THz to 192.7 THz	
Insertion Loss	≤ 6.5 dB, typ.	
	≤ 7.0 dB, max.	
Bandwidth setting range	C-band: 50.1 nm to 38 nm, 12.5 GHz to 4800 GHz	
	L-band: 40.1 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	± 0.04 nm, ± 2.5 GHz	
Range of attenuation for each filter slice	0 to 30 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 30 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 PC/APC, SC/SPC, SC/APC available upon request	Other connector types including PC/APC, SC/SPC, SC/APC available upon request	
Maximum Input Power	≤ 2 dBm	
Response Time	≤ 50 ms	
Operating Temperature	-15 to 45 °C Extended temperature range available upon request	
Dimensions	147 x 238 x 46 mm	
Power Consumption	≤ 10 W	

Dimensions and Layout

Dimensions (W x L x H): 147 x 238 x 46 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	Sx = Single input, dual outputs (xx) switch
	Sx = Dual inputs, single output (xx) switch
	Px = PM, Single input, dual outputs (xx) switch
	Px = PM, Dual inputs, single output (xx) switch
OSG30-XX-nn	xx = C Band xx = L Band