

# InLC 社製光任意波形発生器 (強度 & 位相)

## Optical Spectrum Generator



- OSG10: Programmable Filter
- Tuning of center frequency, bandwidth, and amplitude
- L-Band/ C-Band (up to 384 slices)
- Flexible Grid, Tunable in 12.5 GHz increments
- Extinction  $\geq 40$  dB
- IL  $\leq 4.5$  dB (3.5 dB, typ.)



- OSG30: 1x2/2x1 Programmable Filter
- Tuning of center frequency, bandwidth, and amplitude
- L-Band/ C-Band (up to 384 slices)
- Flexible Grid, Tunable in 12.5GHz increments
- Filter Isolation/ Extinction  $\geq 40$ dB
- Port Isolation  $\geq 40$  dB
- IL  $\leq 7.0$  dB (6.5 dB, typ.)



- OSG12: High Resolution Programmable Filter
- Tuning of center frequency, bandwidth, amplitude, and phase
- L-Band/ C-Band (up to 768 slices)
- Flexible Grid, Tunable in 6.25 GHz increments
- Extinction  $\geq 40$  dB
- IL  $\leq 4.5$  dB (3.5 dB, typ.)



- OSG100: Ultra-High Extinction Programmable Filter
- Tuning of center frequency, bandwidth, and amplitude
- L-Band/ C-Band (up to 384 slices)
- Flexible Grid, Tunable in 12.5GHz increments
- Filter Isolation/ Extinction  $\geq 60$ dB
- IL  $\leq 8.0$  dB (7.0 dB, typ.)



- OSG20: Twin Programmable Filter
- Tuning of center frequency, bandwidth, and amplitude
- L-Band/ C-Band (up to 384 slices)
- Flexible Grid, Tunable in 12.5 GHz increments
- Filter Isolation/ Extinction  $\geq 40$  dB
- IL  $\leq 4.5$  dB (3.5 dB, typ.)

	Center Frequency Control	Attenuation Control	Bandwidth Control	Phase Control	Dual Filters	Ultra-High Extinction	Port Switching	High Resolution
OSG10 Programmable Filter	✓	✓	✓					
OSG12 High Resolution Programmable Filter	✓	✓	✓	✓				✓ (1)
OSG20 Dual Programmable Filter	✓	✓	✓		✓ (2)			
OSG30 1x2/ 2x1 Programmable Filter	✓	✓	✓				✓ (3)	
OSG100 Ultra-High Extinction Programmable Filter	✓	✓	✓			✓ (4)		

**Notes:**

- (1) OSG12 model has high resolution filter slices of 6.25 GHz minimum bandwidth. All other OSG models have filter slices 12.5 GHz minimum bandwidth
  - (2) OSG20 model offers 2 filters in a box. Each filter can be operated and controlled independently
  - (3) OSG30 model can be ordered as a single input with dual outputs (1x2), or as dual inputs with single output (2x1)
  - (4) OSG100 model features ultra-high extinction exceeding 60 dB. All other OSG models offer > 40 dB extinction
- All OSG models are programmable via RS232 or USB ports using the OSG Control Interface software supplied by InLC