

48-CH 50G Thermal AWG

Features

- Established Silica-on-Silicon
- Extremely Low Crosstalk
- Low Insertion Loss
- Low PDL

Applications

- DWDM Transmission
- Wavelength Routing
- Optical Add/Drop Multiplexing

Optical Specification (Thermal AWG)

Parameters	Specs			Units
	Min	Typ	Max	
Number of Channels	48			
Number Channel Spacing	50			GHz
Cha. Center Wavelength	C -band			nm
Clear Channel Passband	±6.25			GHz
Wavelength Stability	±0.05			nm
-1 dB Channel Bandwidth	0.2			nm
-3 dB Channel Bandwidth	0.3			nm
Optical Insertion Loss at ITU grid		5.0	6.5	dB
Adjacent Channel Isolation	25			dB
Non-Adjacent, Channel Isolation	29			dB
Total Channel Isolation	22			dB
Insertion Loss Uniformity			2.0	dB
Directivity(Mux Only)	40			dB
Insertion Loss Ripple			1.5	dB
Optical Return loss	40			dB
PDL/Polarization Dependent Loss in Clear Channel Band		0.3	0.5	dB
Polarization Mode Dispersion			0.5	ps
Maximum Optical Power			23	dBm
MUX/DEMUX input/ output Monitoring range	-35		+23	dBm
Operating Temperature	-5	+25	+65	°C
Operating Humidity	5		95	%RH
Storage Temperature	-40		+85	°C
Storage Humidity	5		95	%RH
Package	1U Chassis			

IL Represents the worst case over a +/-0.01nm window around the ITU wavelength;

PDL was measured on average polarization over a +/- 0.01nm window around the ITU wavelength.