

# 0607 AWG Multiplexer

G2000-S



## 100 GHz C-band 40 CH Thermal/Athermal AWG

The Athermal AWG (AAWG) have equivalent performance to standard Thermal AWG (TAWG) but require no electrical power for stabilization. They can be used as direct replacements for Thin Film Filters (Filter type DWDM module) for cases where no power is available, and are suitable for outdoor applications over -30 to +70 degree in access networks. WDM's Athermal AWG (AAWG) provide excellent optical performance, high reliability, ease of fiber handling and power saving solution in a compact package.

### FEATURES

- Low Insertion Loss
- Established Silica-on-Silicon
- Low Chromatic Dispersion
- Telcordia GR-1221-CORE Qualified
- Low PDL

### USE IN

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

Number Channel Spacing	100 GHz	
Number of Channels	40	
Cha. Center Wavelength	C-band	
Clear Channel Passband	±0.1 nm	
Wavelength Stability	±0.005 nm	
-1 dB Channel Bandwidth	0.4 nm min.	
-3 dB Channel Bandwidth	0.6 nm min.	
Insertion Loss at ITU Grid	4.5 dB typ.; 6 dB max.	
Insertion Loss Uniformity	1.5 dB max.	
Directivity (Mux Only)	45 dB min.	
Insertion Loss Ripple	0.5 dB max.	
Optical Return Loss	40 dB min.	
PDL	0.3 dB typ.; 0.5 dB max.	
PMD	0.5 ps max.	
Power Handling	23 mW max.	
Isolation	Adjacent	25 dB min.
	Non-Adjacent	30 dB min.
	Total Channel Isolation	24 dB min.
MUX/DEMUX In/Out Monitoring Range	-35 dB/°C min.; +23 dB/°C max.	
Operating Temperature	-5°C to +65°C (-40°C to +85°C Optional)	
Operating Humidity	5% to +95% RH	
Storage Temperature	-40°C to +85°C	
Storage Humidity	5% to +95% RH	
Dimension	Athermal: 120x705x10 mm or 19" 1U Rackmount	
	Thermal: 150x65x16 mm	
Size between Screws	Athermal: 110x60 mm; Thermal: 140x58 mm	

**Order notes to our customers:** The default parameters are as follows. For special needs, please contact sales.

**1) Connector FC/APC, 900 um, 1 m by default for all devices except for high power devices.**

**2) Slow axis working, fast axis blocked, connector key is aligned to slow axis by default for PM devices.**