

# 0607 AWG Multiplexer

G2201-S



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

Athermal AWG series products take silica-on-silicon planar technology and is built with high performance and reliability, which can be used in general DWDM systems. Based on the athermal design and packing, it is totally passive product which does not require any electrical power or temperature control. For 50 G AAWG Mux/Demux, it supports up to 40-CH based on a single chipset. Customized wavelengths, package and fiber options are also available.

### FEATURES

- Low Insertion loss
- High Channel Isolation
- High Stability and Reliability

### USE IN

- WDM Network
- Telecommunication
- Access Network

Number Channel Spacing	50 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.**