



100G 32 channel Flat Top Athermal AWG specification 1U

Absolute Maximum Ratings (unless otherwise specified)

Parameters	Conditions	Specifications		Units
		Min.	Max.	
Operating Temperature	Operating	-5	65	°C
Operating Humidity	Operating	5	95	%RH
Storage Temperature	Non_Operating	-40	+85	°C
Storage Humidity	Non_Operating	5	95	%RH

Optical Specification (AWG/Flat Top Athermal AWG)

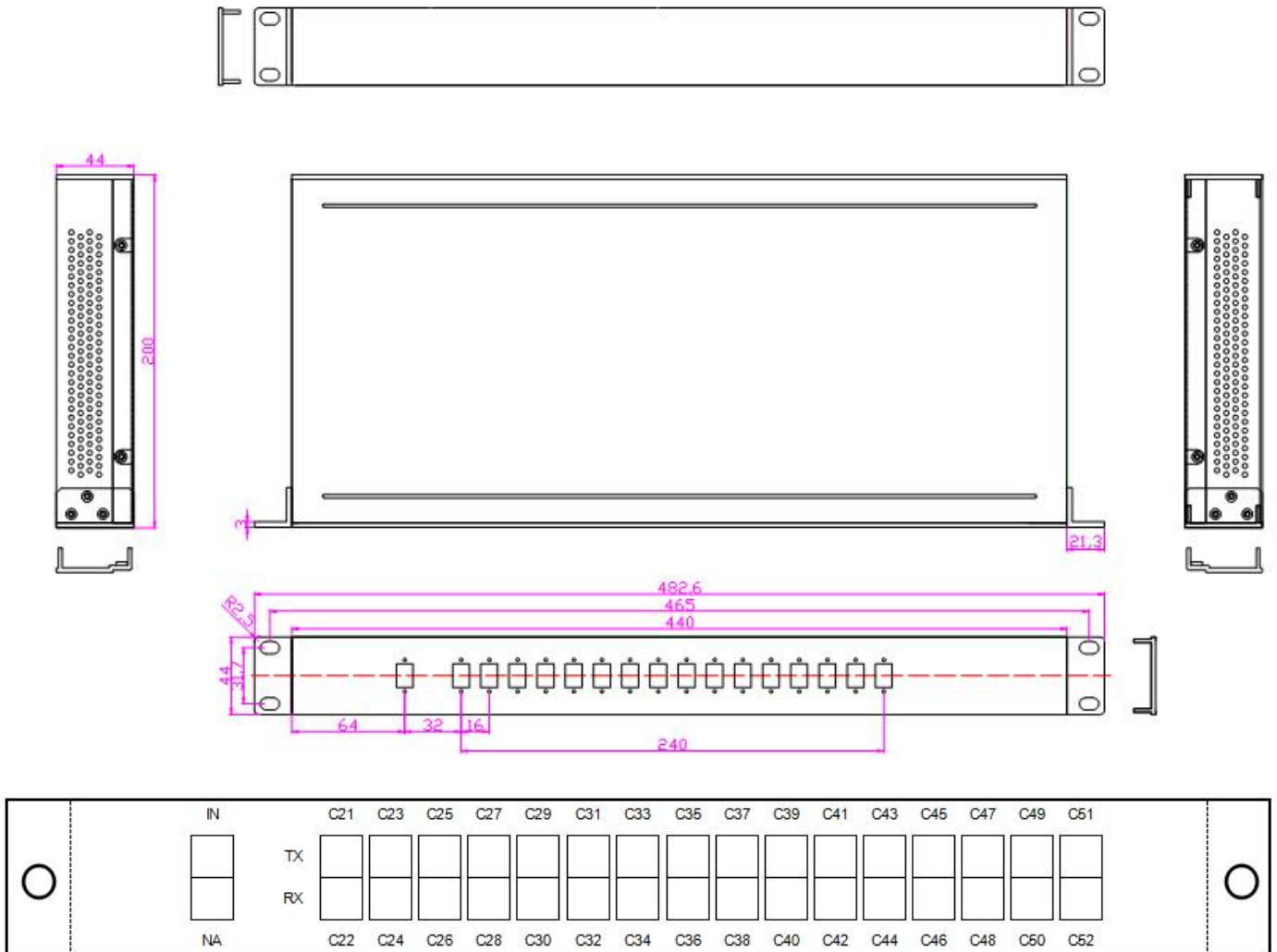
Parameters	Condition	Specs			Units
		Min	Typ	Max	
Number of Channels		32			
Number Channel Spacing	100GHz	100			GHz
Cha. Center Wavelength	ITU frequency.	C21-C52			nm
Clear Channel Passband		±12.5			GHz
Wavelength Stability	Maximum range of the wavelength error of all channels and temperatures in average polarization.	±0.05			nm
-1 dB Channel Bandwidth	Clear channel bandwidth defined by passband shape. For each channel	0.36			nm
-3 dB Channel Bandwidth	Clear channel bandwidth defined by passband shape. For each channel	0.56			nm
Optical Insertion Loss at ITU grid	Defined as the minimum transmission at ITU wavelength for all channels. For each channel, at all temperatures and polarizations.			5.8	dB
Adjacent Channel Isolation	Insertion loss difference from the mean transmission at the ITU grid wavelength to the highest power, all polarizations, within the ITU band of the adjacent channels.	25			dB
Non-Adjacent, Channel Isolation	Insertion loss difference from the mean transmission at the ITU grid wavelength to the highest power, all polarizations, within the ITU band of the nonadjacent channels.	30			dB
Total Channel Isolation	Total cumulative insertion loss difference from the mean transmission at the ITU grid wavelength to the highest power, all polarizations, within the ITU band of all other channels, including adjacent channels.	21			dB
Insertion Loss Uniformity	Maximum range of the insertion loss variation within ITU across all channels, polarizations and temperatures.			1.0	dB
Directivity(Mux Only)	Ratio of reflected power out of any channel(other than channel n)to power in from the input channel n	40			dB
Insertion Loss Ripple	Any maxima and any minima of optical loss across ITU band, excluding boundary points, for each channel at each port			1.0	dB



Optical Return loss	Input & output ports	40			dB
PDL/Polarization Dependent Loss in Clear Channel Band	Worst-case value measured in ITU 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
Dimensions(mm)		19'U			

1. IL Represents the worst case over a +/-0.01nm window around the ITU wavelength ;
2. PDL was measured on average polarization over a +/- 0.01nm window around the ITU wavelength.

Mechanical Schematic and Dimensions





Ordering Part Code Sequence

AWG	X	XX	X	XXX	X	X	X	XX
	Band	Number of Channels	Spacing	1st Channel	Filter Shape	Package	Fiber Length	In/Out Connector
	C=C-Band	16=16-CH	1=100G	C60=C60	G=Gaussian	M=Module	1=0.5m	0=None
	L=L-Band	32=32-CH	2=200G	H59=H59	B=Broad	R=Rack	2=1m	1=FC/APC
	D=C+L-Band	40=40-CH	5=50G	C59=C59	Gaussiar	X=Special	3=1.5m	2=FC/PC
	X=Customize	48=48-CH	X=Special	H58=H58	F=Flat Top		4=2m	3=SC/APC
		XX=Special		XXX=special			5=2.5m	4=SC/PC
							6=3m	5=LC/APC
							S=Specify	6=LC/UPC
								7=ST/UPC
								S=Specify