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8N 01(1)	NET TELEVISION CONTRACTOR CONTRAC	-
BATCH	NAMES AND AND A DATA	100

1. Description

40 channel 100G Thermal AWG(100G TAWG) is designed for use within the C -band release of DWDM system. To decrease the power dissipation of the devices in different environmental conditions, the TAWG package is special designed with selection of reliable thermal plastic with low thermal conduction, and the TAWG operating temperature is controlled by using foil resist heater or Peltier TEC with thermistor temperature sensor. Different input and output fibers, such as SM fibers, MM fibers and PM fiber can be selected to meet different applications. We can also offer different product packages, including special metal box and 19" 1U rackmount.

2、Features

- Low Insertion Loss
- Established silica-on-silicon
- Low PDL
- Low chromatic dispersion
- Telcordia GR-1221-CORE qualified

3、Specification

Daramatara	Condition		Units		
Parameters	Condition		Туре	Max	
Number of			40		ch
Channels	nnels				
Number Channel	10004-	100			CH-
Spacing	1000H2				GHZ
Cha. Center	ITIL frequency		Chand		
Wavelength	no nequency.	C-band			11111
Clear Channel			±0.1		nm





Passband					
Wavelength Stability	Maximum range of the wavelength error of all channels and temperatures in average	±0.05			nm
-1 dB Channel	Clear channel bandwidth defined by	0.4			nm
Bandwidth	passband shape. For each channel	0.4			
-3 dB Channel	Clear channel bandwidth defined by	0.6			nm
Bandwidth	passband shape. For each channel	0.0			
	Defined as the minimum transmission at				
Optical Insertion	ITU wavelength for all channels. For each		15	60	dв
Loss at ITU grid	channel, at all temperatures and		4.5	0.0	uв
	polarizations.				
	Insertion loss difference from the mean				
Adjacant Channel	transmission at the ITU grid wavelength				
	to the highest power, all polarizations, 🚬	25			dB
isolation	within the ITU band of the adjacent	2			
	channels.				
	Insertion loss difference from the mean				
Non Adiacant	transmission at the ITU grid wavelength	7-7-4			
Non-Adjacent,	to the highest power, all polarizations,	30			dB
Channel Isolation	within the ITU band of the nonadjacent				
	channels.				
	Total cumulative insertion loss difference				
	from the mean transmission at the ITU				
Total Channel	grid wavelength to the highest power, all				
Isolation	polarizations, within the ITU band of all	22			dB
	other channels, including adjacent				
	channels.				
	Maximum range of the incertion loss				
Insertion Loss	waximum range of the insertion loss		1.0	1 Г	d۵
Uniformity	variation within 110 across all channels,		1.0	1.5	ав
	polarizations and temperatures.				
	Ratio of reflected power out of any				
Directivity(Mux	channel(other than channel n)to power in from the input	40			dB
Only)	channel				
	Any maxima and any minima of ontical				
Insertion Loss	loss across ITU band excluding				
Rinnle	houndary points for each channel at			0.5	dB
	each port				
Ontical Return					
loss	Input & output ports	40			dB
PDL/Polarization	Worst-case value measured in ITU band		0.3	0.5	dB



Dependent Loss					
in Clear Channel					
Band					
Polarization				05	nc
Mode Dispersion				0.5	ps
Maximum				22	dBm
Optical Power				25	ubiii
MUX/DEMUX					
input/ output		-35		+23	dBm
Monitoring range					
Operating		5	+25	+65	്
Temperature		-5	725	+03	C
Operating		5		05	%рц
Humidity		ſ		33	70111
Storage	6	40		1 O E	°C
Temperature	C	-40		705	C
Storage Humidity		5		95	%RH
Package Size		L150 x W65 x H16			mm
Size between		174	140	,	
screws			140 X 08)	

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.

4. Application

- DWDM transmission
- Wavelength Routing
- Optical add/drop multiplexing





5. Ordering Information:

AWG	Х	XX	Х	XXX	Х	Х	Х	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=Gaussi	M=Module	1=0.5m	0=None
	L=L-Band	32=32-CH	2=200G	H59=H59	an	R=Rack	2=1m	1=FC/APC
	D=C+L-	40=40-CH	5=50G	C59=C59	B=Broad	X=Special	3=1.5m	2=FC/PC
	Band	48=48-CH	X=Special	H58=H58	Gaussiar		4=2m	3=SC/APC
	X=Special	XX=Speci		XXX=spec	F=Flat		5=2.5m	4=SC/PC
		al		ial	Тор		6=3m	5=LC/APC
							S=Specify	6=LC/PC
								7=ST/UPC
								S=Specify
					6			