

40-CH. 100GHZ THERMAL AWG MUX/DEMUX MODULE

AWG SERIES



This component 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 AWG package is special designed with selection of reliable thermal plastic with low thermal conduction, and the AWG operating temperature is controlled by using foil resist heater with thermistor temperature sensor.

	PARAMETERS		MIN	TYP.	MAX	UNIT
SPECIFICATIONS	Number of Channels			40		-
	Number Channel Spacing			100		GHz
	Cha. Center Wavelength			C-band		nm
	Clear Channel Passband			±0.1		nm
	Wavelength Stability			±0.05		nm
	-1 dB Channel Bandwidth		0.40	-	-	nm
	-3 dB Channel Bandwidth		0.60			nm
	Optical Insertion Loss at ITU grid		-	5.0	6.0	dB
	Adjacent Channel Isolation		22	25	-	dB
	Non-Adjacent, Channel Isolation		30	35	-	dB
	Total Channel Isolation		20	22		dB
	Insertion Loss Uniformity		-	-	1.0	dB
	Insertion Loss Ripple		-	0.5	1.0	dB
	Optical Return loss		40	-	-	dB
	Polarization Dependent Loss in Clear Channel Band		-	0.3	0.5	dB
	Polarization Mode Dispersion		-	-	0.5	ps
	Optical Power Handling		-	-	23	dBm
	Set-Point temperature of component		65	-	85	°C
	Set-Point temperature stability		-	-	±0.2	°C
	Heater Drive Voltage		-	+5		V
Heater Drive Current		-	-	2.5	A	

1. IL Represents the worst case over a +-0.1nm window around the ITU wavelength.
2. PDL was measured on average polarization over a +- 0.1nm window around the ITU wavelength.
3. Bandwidth measured from the peak of IL average.

CODE	TYPE		CHANNEL COUNT		CHANNEL SPACING		CONNECTOR TYPE		FIBER LENGTH	
F4M-AWG	FT	Flat top, Thermal	16	16 channels	05	50GHz	0	None	05	0.5 m
			24	24 channels	10	100GHz	A	SC/UPC	10	1m
			32	32 channels	S	Specify	B	SC/APC	S	Specify
			40	40 channels			C	FC/UPC		
			44	44 channels			D	FC/APC		
			48	48 channels			E	LC/UPC		
			S	Specify			Q	LC/APC		
							S	Specify		

Different input and output fibers, such as SM fibers, MM fibers and PM fiber can be selected to meet different applications.

ORDER CODE EXAMPLE

F4M-AWG- FT - S - 10 - 00 - S

