

## 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	$\pm 0.1$			nm
	Wavelength Stability	$\pm 0.05$			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	-	-	$\pm 0.2$	°C
	Heater Drive Voltage	-	+5	-	V
	Heater Drive Current	-	-	2.5	A

1. IL Represents the worst case over a  $\pm 0.1$  nm window around the ITU wavelength.
2. PDL was measured on average polarization over a  $\pm 0.1$  nm 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

