

Dense Wavelength Division Multiplexer (DWDM) 400 GHz 8-Channel Module

This dense wavelength division multiplexer DWDM is an eight-channel module designed for 400GHz WDM systems. Assembled using interference filter technology for multiplexing or demultiplexing ITU optical wavelengths, this high performance module has excellent stability and reliability. Its optical paths are epoxy-free.



Specifications

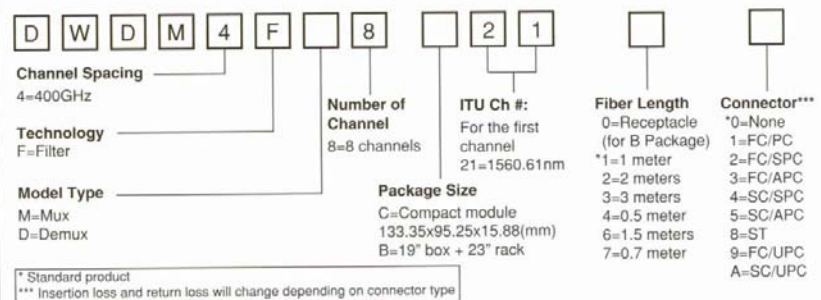
Parameter	Unit	Mux	Demux
Channel Number	--		8
Channel Spacing	GHz		400
Central Wavelength Range λ_c	nm	See Page 39	
Passband	Min. nm		0.8
Insertion Loss	Typ. dB		2.3
	Max. dB		3.3
Passband Flatness	Max. dB		0.5
Channel Uniformity	Max. dB		1.5
Isolation	adjacent channels	Min. dB	N/A
	non-adjacent channels	Min. dB	25
Directivity	Min. dB		60
Optical Return Loss	Min. dB		45
Polarization Dependent Loss	Max. dB		0.1
Polarization Mode Dispersion	Max. ps		0.1
Thermal Stability	Max. dB/°C		0.007
Thermal Wavelength Drift	Max. nm/°C		0.003
Optical Power	Max. mW		250
Tensile Load	Max. N		5
Operating Temperature	°C		0 to +65
Storage Temperature	°C		-40 to +85

Ordering Example:

DWDM4FD8C2110

- 4: 400GHz channel spacing
- F: All filter approach
- D: Demux type
- 8: 8 channels
- C: Compact package of 133.35x95.25x15.88mm
- 21: Channels 21, 25, 29, 33, 37, 41, 45, 49
- 1: 1 meter fiber pigtail
- 0: No connector

Ordering Information



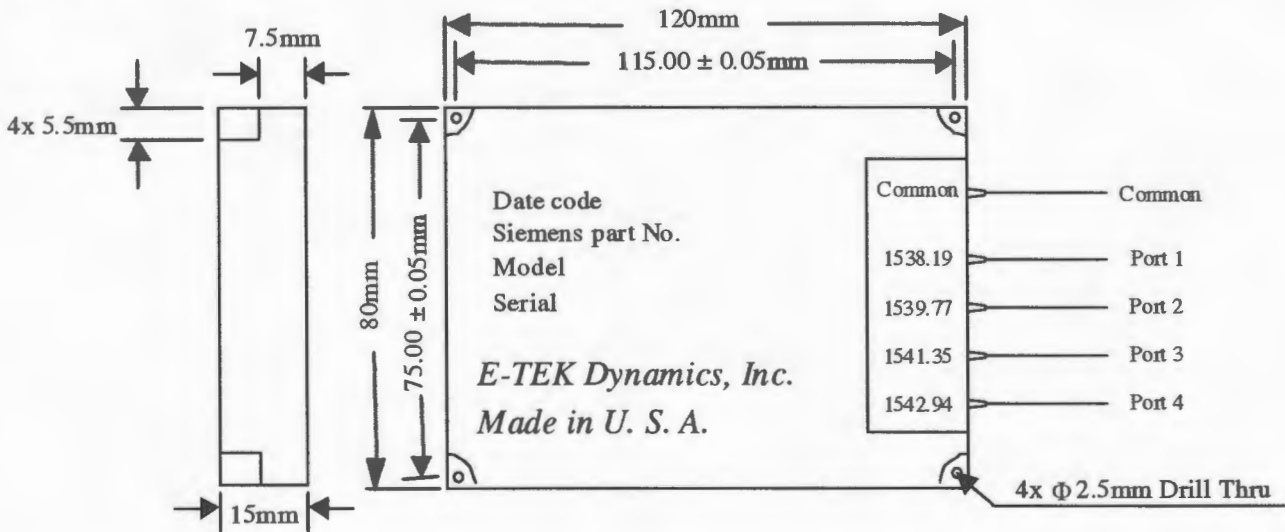


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INSPECTION REPORT

- 1.E-Tek Spec.Revision: 3.0
- 2.Item: DWDMS4D4SMN05
- 3.Serial No.: 63336723
- 4.Customer Part No.: V50017-Q590-K812
- 5.Fiber Type: Corning SMF-28; 900 um Loose Tube
- 6.Fiber Length: 1.0 ± 0.2 m
- 7.Connectors: SC/UPC
- 8. Schematic:

Date: 3/13/00



9. Performance:

(1) Insertion loss(dB)(@23°C, Including one connector loss):

C<=>Port 1 (1538.19nm)	C<=>Port 2 (1539.77nm)	C<=>Port 3 (1541.35nm)	C<=>Port 4 (1542.94nm)
1.67	1.57	1.53	1.56

(2) Isolation(dB):

adjacent channels	non-adjacent channels	1520~1529&1562~1570nm	960~1000&1460~1490nm
>25	>40	>30	>15

(3) Others:

Passband(nm)	Flatness(dB)	Uniformity@ ITU grid (dB)	Directivity(dB)	Return Loss(dB)	PDL(dB)
$\lambda_c - 0.40 < \lambda < \lambda_c + 0.35$	<1.0	<1.0	>55	>45	<0.1

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Tested by: 7-2368

Checked by: 560



Date Code: 0009
Siemens Part No: V50017-Q590-K812



Made in USA

Model: DWDMS4D4SMN05
Serial: 63336723

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COMMON

1538.19

1539.77

1541.35

1542.94