

DWDM Single Channel Device

FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

APPLICATIONS

- Broadband Systems
- Optical Add/Drop Multiplexing
- Telecommunication Networks
- Metro Networks
- DWDM Systems



SPECIFICATIONS

Parameters		Unit	50G	100G	200G
Center Wavelength		nm	1528-1640, ITU Grid		
Channel Spacing		Hz	50G	100G	200G
Channel Passband Width		nm	+/-0.05	+/-0.11	+/-0.25
Configuration	D Type	-	2-port Bandpass Filter		
	Y Type	-	3-port WDM Filter		
Pass Channel Insertion Loss		dB	≤1.50	≤1.20	
Ref. Channel Insertion Loss (Only for Y Type)		dB	≤0.60	≤0.50	
Pass Channel Adjacent Channel Isolation		dB	≥25		
Pass Channel Non-adjacent Channel Isolation		dB	≥40		
Ref. Channel Isolation (Only for Y Type)		dB	≥12		
Optical Return Loss		dB	≥45		
Directivity		dB	≥50		
Polarization Dependent Loss		dB	≤0.20	≤0.15	≤0.10
Fiber Type		-	SMF-28 Fiber or 10/130um DC Fiber (O) 12/130um DC Fiber (T) or 20/130um DC Fiber (Q) 25/250um DC Fiber (R) or 25/300um DC Fiber (G)		
Fiber Tensile Load		N	5		
Maximum Optical Power (CW)		mW	300		
Operating Temperature		°C	0~70		
Storage Temperature		°C	-40~85		
Package Dimension	Stainless Steel Tube (SST)	mm	ø5.5x38		
	Metal Box		L120xW12xH10		

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

2. To add connectors, IL is 0.3dB higher, RL is 5dB lower.

3. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

ORDERING INFORMATION (PN)

FDWS-	N	CNN	(C)	- (C)	(C)	C	NN	- CC/CCC
Channel Spacing	ITU Channel No.	Configuration	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
1- 100GHz	C34- C34 Channel	D=D Type	M= Metal Box	O=10/130 DC Fiber	B= Bare fiber	0.5-0.5m	N=Without Connector	
2- 200GHz	H40- H40 Channel	Blank for Y Type	Blank for SST	T=12/130 DC Fiber	L= Loose Tube	10-1.0m	FC/APC=FC/APC Connector	
5- 50GHz	L00- L00 Channel			G=25/300 DC Fiber	2- 2mm Cable	15-1.5m	LC/PC=LC/PC Connector	
	C40- C40 Channel			Blank for SMF-28 Fiber	3- 3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector	

