

## DWDM Single Channel Device for Pulse Power

### 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	100G	200G
Center Wavelength	nm	1528-1640, ITU Grid	
Channel Spacing	Hz	100G	200G
Channel Passband Width	nm	+/-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	≤0.15	≤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	
Max. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5	
Max. Peak Power for Pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Operating Temperature	°C	0~70	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	∅5.5x35 (≤3W)
	Metal Box	mm	L80x <sup>W</sup> 12x <sup>H</sup> 10 (>3W); L120x <sup>W</sup> 12x <sup>H</sup> 10 (≤3W)

**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. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

4. 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) -H	NN	P NN	-(C)	(C)	C	NN	-CC/CCC
Channel Spacing	ITU Channel No.	Configuration	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1-100GHz	C34- C34 Channel	D-D Type	03-300mW	01-100W	N-Metal Box	O-10/130 DC Fiber	B- Bare fiber	05-0.5m	N-Without Connector
2-200GHz	H40- H40 Channel	Blank for Y Type	1-1W	1-1kW	Blank for SST	T-12/130 DC Fiber	L- Loose Tube	10-1.0m	FC/APC=FC/APC Connector
			2-2W	10-10kW	or >8W	G-25/300 DC Fiber	2- 2mm Cable	15-1.5m	LC/PC=LC/PC Connector
	C40- C40 Channel		5-5W	20-20kW		Blank for SMF-28 Fiber	3- 3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector

