

## High Power PM 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	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	≤0.80	≤0.80
Pass Channel Adjacent Channel Isolation	dB	≥25	≥25
Pass Channel Non-adjacent Channel Isolation	dB	≥40	≥40
Ref. Channel Isolation (Only for Y Type)	dB	≥12	≥12
Optical Return Loss	dB	≥45	≥45
Directivity	dB	≥50	≥50
Extinction Ratio	Standard	dB ≥18	
	High ER Type	dB ≥20	
Fiber Type	-	PM1550 Panda Fiber or 10/125um PMDC Fiber (O) 12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q) 25/250um PMDC Fiber (R) or 25/300um PMDC Fiber (G)	
Fiber Tensile Load	N	5	
Maximum Optical Power (CW)	W	1, 2, 3, 5	
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, ER is 2dB Lower, Connector key is aligned to slow axis.

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

4. High ER type can only work in slow axis at pass port.

5. 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)

FDSP-N	CNN	(C)	(C)	-HP	N	-(C)	C	C	NN	- CC/CCC
Channel Spacing	ITU Channel No.	Configuration	Type	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
1= 100GHz	C34= C34 Channel	D=D Type	R=High ER	1=1W	M=Metal Box	2=PM1550Fiber	B= Bare fiber	05=0.5m	N=Without Connector	
2= 200GHz	H40= H40 Channel	Blank for Y Type	Blank for Standard	2= 2W	Blank for SST	0=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector	
	L00= L00 Channel			3=3W	or >3W	T=12/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
	C40= C40 Channel			5= 5W		G=25/300 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	

