

## CWDM 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	Value
Center Wavelength	nm	1270-1610, 1271-1611
Channel Spacing	nm	20
Channel Passband Width	nm	+/-6.5
Configuration	D Type	2-port Bandpass Filter
	Y Type	3-port WDM Filter
Pass Channel Insertion Loss	dB	≤0.8
Ref. Channel Insertion Loss (Only for Y Type)	dB	≤0.5
Pass Channel Ripple	dB	≤0.3
Pass Channel Adjacent Channel Isolation	dB	≥30
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	≤0.1
Polarization Mode Dispersion	ps	≤0.1
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
	Metal Box	mm
		∅5.5x35
		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)

FCWS-NNNN	- (C)	- (C)	(C)	C	NN	-CC/CCC
Center Wavelength	Configuration	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1471~1471nm	D-Type	M-Metal Box	O=10/130 DC Fiber	B-Bare fiber	05~0.5m	N-Without Connector
1510~1510nm	Blank for Y Type	Blank for SST	T=12/130 DC Fiber	L-Loose Tube	10~1.0m	FC/APC=FC/APC Connector
1550~1550nm		or >8W	G=25/300 DC Fiber	2=2mm Cable	15~1.5m	LC/PC=LC/PC Connector
1611~1611nm			Blank for SMF-28 Fiber	3=3mm Cable	20~2.0m	SC/UPC=SC/UPC Connector

