

## 3Port CWDM

### Description

The 3-port CWDM device is mainly used in the passive wavelength division multiplexing module. It is a kind of wavelength division multiplexing technology based on TFF (thin film filter). It has a variety of package sizes and wavelength options. It consists of three ports: COM, Pass and Reflect. The wavelength range meets the ITU-I G.695 standard. It can Mux, Demux or add-drop multiplexing different light in WDM system. Signals, as well as increasing signal transmission speed and communication capacity, are widely used in telecommunications, radio and television, enterprise network, campus network and other fields.

### Features:

- Wide bandwidth
- Low insertion loss
- High channel isolation
- Exceptional reliability and stability

### Application:

- WDM systems
- Telecom, Radio, Television, Access Networks
- Enterprise Network

### Ordering information

RD-C	- Package	-Connector Type	U/A	-Channel Plan	-Fiber Type	-Fiber Length
	S: Steel	0: No connector	U: UPC	27: 1270	25: 250um Fiber	005: 0.5+/-0.1m
	G:Glass	1: LC	A: APC	29: 1290	90: 900um Fiber	01: 1.0+/-0.1m
		2: SC		31: 1310		others
		3: FC		others		
		4: Others				

**Example: RD-CS1U-27-2505: 3Port CWDM 1270 LC/UPC 250um 0.5M Fiber Steel**

## Product specification

Item	Unit	Parameters
Channel spacing		20 nm ITU grids
Channel centers (ITU)	nm	1270/1290/1310/1330/1350/1370/1390/1410/1430/ 1450/1470/1490/1510/1530/1550/1570/1590/1610nm
Passband	nm	$\geq \pm 6.5$
Passband ripple	dB	$\leq 0.30$
Transmission insertion loss	dB	$\leq 0.60$
Reflection band ripple	dB	$\leq 0.20$
Reflection insertion loss	dB	$\leq 0.40$
Transmission isolation (adj channel)	dB	$\geq 30$
Transmission isolation (non-adj channel)	dB	$\geq 50$
Reflection isolation	dB	$\geq 14$
Polarization dependent loss	dB	$\leq 0.1$
Polarization mode dispersion	ps	$\leq 0.2$
Thermal Stability	dB/°C	$\leq 0.005$
Directivity	dB	$\geq 50$
Return loss	dB	$\geq 45$
Optical power handling	mW	$\leq 500$
Tensile Load	N	$\geq 5$
Operating temperature range	°C	-20 to 70
Storage temperature range	°C	-40 to +85
Fiber type		SMF-28e
Package dimension	mm	$\phi 5.5 \times 34$

## Dimensions drawing (mm)



## Spectral plot (dB)

