

DWDM / CWDM Device

MAKE YOUR
OPTICAL NETWORKS
MORE RELIABLE



100GHz, 200GHz, CWDM 3-port TFF devices are available on ITU channel spacing of 100GHz, 200GHz, CWDM spacing. These thin film filter products utilize hermetic and epoxy-free optical path technology to provide excellent performance and reliability.

The products are Telcordia GR-1221-CORE qualified, and RoHS compliant.

Features

- High channel isolation
- Low insertion loss
- Excellent reliability

Applications

- DWDM system
- Single direction/Bi-direction transmission
- CATV system

Specifications

Parameter	Unit	Value		
		100GHz	200GHz	20nm(CWDM)
Central Wavelength	nm	ITU-T Grid		
Channel Passband	nm	$\lambda_{ITU} \pm 0.11$	$\lambda_{ITU} \pm 0.25$	$\lambda_{ITU} \pm 6.5$
Passband Flatness	nm	≤ 0.5		
Bandwidth(@-0.5dB)	nm	≥ 0.25	≥ 0.60	≥ 14
Insertion Loss (pass Channel)	dB	Typ.0.8, Max.1.0		
Insertion Loss (Reflective Channel)	dB	Typ. 0.45, Max.0.6		
Adjacent Channel Isolation	dB	≥ 25	≥ 25	≥ 30
Non-adjacent Channel Isolation	dB	≥ 45		
Isolation (Reflective Channel)	dB	≥ 12	≥ 12	≥ 13
Return Loss	dB	≥ 45		
PDL	dB	≤ 0.10		
Directivity	dB	≥ 50		
Insertion Loss Thermal Stability	nm/°C	≤ 0.005		
Wavelength Thermal Stability	dB/°C	≤ 0.001	≤ 0.002	≤ 0.002
Operation Temperature	°C	-5~+65		
Storage Temperature	°C	-40~+85		
Package	mm	A: $\Phi 5.5 \times 34$ ($\Phi 0.25$ mm fiber) B: $\Phi 5.5 \times 48$ ($\Phi 0.9$ mm fiber)		

Note :Insertion loss doesn't include connector loss.

Ordering information

DWFI	—	TF	—		—		—		—	
Channel Space	Start Channel Number	Fiber Dia.	Fiber Length	Connector						
1:100GHz 2:200GHz 20:20nm(CWDM)	C21、C23、1271... (for 100G,200G:C21,C23 for CWDM:1271)	025: $\Phi 0.25$ mm (for package A) 09: $\Phi 0.9$ mm (for package B)	0.5:0.5m customer specify	00:no connector FC,SC,LC,MU/PC,UPC,APC						