

100GHz DWDM Module



Multi-channel mux/demux modules are available on ITU channel spacing of 100GHz, which are based on thin film filter technology. These modules are assembled with a number of customer-specified channel filters, and would be integrated with taps and detectors for a complete DWDM solution.

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

Features

- High demux channel isolation
- Low polarization dependent loss
- Flat and wide passband
- Excellent reliability

Applications

- Long haul DWDM system
- Metro DWDM system
- Access/enterprise networks
- Test bench/systems

Specifications

Parameter	Unit	Value					
Channel Number		2	4	8	16	32	40
Central Wavelength		ITU-T Grid					
Passband@0.5dB	nm	≥ 0.25					
Passband	nm	$\lambda_{ITU} \pm 0.11$					
Passband Flatness	dB	≤ 0.5					
Insertion Loss(Typ.)	dB	1.4	1.6	2.6	3.8	4.8	5.2
Insertion Loss(Max.)	dB	1.8	2.0	3.2	4.5	5.5	6.0
Channel Uniformity	dB	≤ 0.5	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
Adjacent Channel Isolation	dB	≥ 25					
Non-adjacent Channel Isolation	dB	≥ 45					
Wavelength Thermal Stability	nm/°C	≤ 0.001					
Insertion Loss Thermal Stability	dB/°C	≤ 0.005	≤ 0.005	≤ 0.007	≤ 0.007	≤ 0.008	≤ 0.008
Return Loss	dB	≥ 45					
PMD	ps	≤ 0.10	≤ 0.10	≤ 0.10	≤ 0.15	≤ 0.15	≤ 0.15
PDL	dB	≤ 0.10	≤ 0.15	≤ 0.20	≤ 0.25	≤ 0.30	≤ 0.30
Directivity	dB	≥ 50					
Operation Temperature	°C	-5 ~ +65					
Storage Temperature	°C	-40 ~ +85					
Package	mm	88.9×50.8×8.3	120×80×13	130×87×13	150×115×13	150×110×19	150×110×19

Ordering information

DWDM

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