

OADM Module



Optical add/drop Multiplexer are available on ITU channel spacing of 100GHz, 200GHz, and 20nm, they are based on thin film filter technology and flexible integration of taps and detectors for a complete wavelength division multiplexing solution. The products adopt hermetic package craft and environmental stability. The products are Telcordia GR-1221-CORE qualified, and RoHS compliant.

Features

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

Applications

- Add/Drop channels
- Long haul DWDM system
- OXC system
- CATV Fiber optic Links

Specifications

Parameter	Unit	Value					
Central Wavelength		ITU-T Grid					
Channel Space		100Ghz		200Ghz		CWDM	
Channel Number		4	8	4	8	4	8
Passband@0.5dB	nm	≥ 0.30	≥ 0.30	≥ 0.6	≥ 0.6	≥ 14	≥ 14
Passband	nm	$\lambda_{mu} \pm 0.11$	$\lambda_{mu} \pm 0.11$	$\lambda_{mu} \pm 0.25$	$\lambda_{mu} \pm 0.25$	$\lambda_{mu} \pm 6.5$	$\lambda_{mu} \pm 6.5$
Passband Flatness	nm	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
IL(In→Drop@ λ drop)	dB	≤ 2.5	≤ 3.2	≤ 2.5	≤ 3.2	≤ 2.5	≤ 3.2
IL(Add→Out@ λ drop)	dB	≤ 2.5	≤ 3.2	≤ 2.5	≤ 3.2	≤ 2.5	≤ 3.2
IL(In→Out@ other λ)	dB	≤ 2.8	≤ 4.5	≤ 2.8	≤ 4.5	≤ 2.8	≤ 4.5
Adjacent Channel Isolation	dB	≥ 25	≥ 25	≥ 25	≥ 25	≥ 30	≥ 30
Non-adjacent Channel Isolation	dB	≥ 45					
Isolation(In→Out@ λ drop)	dB	≥ 25					
Wavelength Thermal Stability	nm/°C	≤ 0.001	≤ 0.001	≤ 0.002	≤ 0.002	≤ 0.002	≤ 0.002
Insertion Loss Thermal Stability	dB/°C	≤ 0.006	≤ 0.007	≤ 0.006	≤ 0.007	≤ 0.006	≤ 0.007
PMD	dB	≤ 0.15	≤ 0.20	≤ 0.15	≤ 0.20	≤ 0.15	≤ 0.20
PDL	ps	≤ 0.1	≤ 0.15	≤ 0.1	≤ 0.15	≤ 0.1	≤ 0.15
Return Loss	dB	≥ 45					
Operation Temperature	°C	-5~+65					
Storage Temperature	°C	-40~+85					
Package	mm	130×87×13	150×115×13	130×87×13	150×115×13	130×87×13	150×115×13

Ordering information

OADM — — — — — — — —					
Channel Space	Channel Number	Start Channel Number	Fiber Dia.	Fiber length	Connector
1:100GHz 2:200GHz 20:20nm(CWDM)	2:2 channel 4:4 channel 8:8 channel customer specify	C21、C23、1271... (for 100G,200G:C21,C23 for CWDM:1271)	09: Φ 0.9mm	0.5:0.5m customer specify	00:no connector FC,SC,LC,MU/ PC,UPC,APC