

DWDM (Dense Wavelength Division Multiplexers)

DWDM (Dense Wavelength Division Multiplexer) is based on a patented athermal platform for optical devices. This multiplexer features ultra low insertion loss, superb thermal stability, and unparalleled reliability. The technology is a lead-free packaging platform and contains no epoxies in the optical path. KOC DWDM is Telcordia GR-1221 and GR-1209 tested, qualified for uncontrolled environment applications, and is in compliance with industry green initiatives such as RoHS and WEEE. KOC can provide customized designs to meet specialized feature applications. KOC also offers modular assemblies that integrate other components to form a full function module or subsystem.



Features

- Widely Operating Wavelength Range
- Low Insertion Loss
- High Channel Isolation
- High Stability and Reliability
- Insensitive to shock and vibration
- Ultra Flat Wide Pass band
- Epoxy Free Optical Path

Applications

- System Monitoring
- WDM System
- Transmitters and Fiber lasers
- Fiber Optical Amplifier
- Fiber optic instruments

Specifications

Parameter		Specification								Unit
Channel Wavelength		ITU 100GHz Grid				ITU 200GHz Grid				nm
Channel Spacing		100				200				GHz
Channel Count		Single	2	4	8	16	20	40	CH	
Channel Passband (@-0.5dB bandwidth)	Min	0.125				0.25				nm
Insertion Loss	Max	<1.1 (add or drop) <0.8 (other)	1.3	2.2	3	4	4.2	4.5	dB	
Isolation	Min.	>30 (add or drop) >12 (other)	30 40						dB	
Passband Ripple	Max.	0.5								dB
Polarization Dependent Loss	Max.	0.1								dB
Polarization Mode dispersion	Max.	0.1								ps
Directivity	Min.	50								dB
Return Loss	Min	45								dB
Insertion Loss Temperature Stability	Max.	0.005								dB/°C
Temperature Wavelength Drift	Max.	0.003								nm/°C
Power Handling	Max.	300								mW
Tensile Load	Max.	5								N
Pigtail Type		white 0.9mm loose tube								
Fiber Type		SMF-28e								
Fiber length		≥1.0 or customer requirements.								m
Operating Temperature		-10 ~ 70								°C
Storage Temperature		-40 ~ 85								°C
Package Dimension		100X80×10 & 141X115X18&5.5*36								mm