



CWDM (Coarse Wavelength Division Multiplexer)

Part Number: FCWM-xxxxxxxxxx-xxxxx-xx



Overview

Ficer's Coarse Wavelength Division Multiplexer features ultra low insertion loss, super thermal stability and reliability. The technology is a lead-free packaging platform and no epoxy in the optical path. Green CWDM is Telcordia GR-1221 and GR-1209 tested, qualified for uncontrolled environment applications and complied with industry green initiatives such as RoHS and WEEE.

Applications

- Telecommunication system
- Testing instruments
- Fiber optical sensors
- LAN / WAN
- CATV
- FTTx

Features

- Standard & Customized configuration
- Precision end face geometry testing
- UPC / APC physical contact polishing
- Precise and Stable Attenuation values
- Ultra Low Return Loss
- Compliant with GR-910-CORE / JIS C5920
- RoHS Compliant



Specifications

T_{OP} = -10 °C to 70 °C

Parameter		Specification Values				
Operating Wavelength (nm)		1260 to 1620				
Center Wavelength Accuracy (nm)		± 0.5				
Channel Spacing (nm)		20				
Channel Passband (@-0.5dB bandwidth) (nm)		$\lambda_c \pm 6.5$				
		2CH	4CH	8CH	16CH	18CH
MAX Insertion Loss (dB)*1,2		1.2	1.6	2.8	3.4	3.8
MAX Average Pair Loss (dB)*1,2		1.8	2.6	4.0	5.0	5.6
Polarization Dependent Loss (dB)		≤ 0.10	≤ 0.15	≤ 0.20	≤ 0.25	≤ 0.27
Polarization Mode Dispersion (ps)		≤ 0.10				
Isolation (dB)	Adjacent	≥ 30				
	Non-adjacent	≥ 45				
Channel Uniformity (dB)		≤ 0.8				
Channel Ripple (dB)		≤ 0.3				
Directivity (dB)		≥ 55				
Return Loss (dB)		≥ 45				
Maximum Power Handling (mW)		300				
Operating Temperature (°C)		-10 ~ +70				
Storage Temperature (°C)		-40 ~ +85				

Note 1. The Insertion Loss values not including Connector Loss.

Note 2. 16CH & 18CH are with Band Splitter.



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Ordering Information

A: Aluminum S: SPCC



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10: 1M	03: 30cm
20: 2M	05: 50cm
30: 3M	15 1.5M

1U: 1U 2U: 2U

1S: 1 Slot 3S: 3 Slot
2S: 2 Slot 4S: 4 Slot

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F:	FC type	P:	UPC type
S:	SC type	A:	APC type
T:	ST type	X:	None
L:	LC type		
C:	DSC		
D:	DLC		
U:	MU		
E:	E2000		
X:	None		