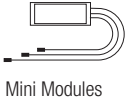


4CH CDWDM MODULE



PIONEERING CUSTOM FIBER OPTIC SOLUTIONS FOR YOUR UNIQUE NEEDS



The CDWDM device employs free-space technology, a significant advancement in Dense Wavelength Division Multiplexing (DWDM). The internal structure of the device is meticulously designed, featuring a prism bonded directly to a glass substrate with epoxy glue. This structure is then sealed and welded to withstand field conditions, providing enhanced durability. Additionally, the device is fixed to the substrate to avoid movement and is protected by a loose tube with a diameter of 900 micrometers.

PARAMETERS		SPECIFICATIONS				UNIT
Channel Number		4				-
Center Wavelength		CH23	CH27	CH29	CH33	nm
		1558.98	1555.75	1554.13	1550.92	
Channel Spacing		200				GHz
Channel Passband (@-0.5dB bandwidth)		$\lambda_c \pm 0.25$				nm
Insertion Loss ¹		≤ 1.5				dB
Channel Uniformity		≤ 0.6				dB
Isolation	Adjacent	≥ 30				dB
	Non-adjacent	≥ 40				dB
Polarization Dependent Loss		≤ 0.3				dB
Polarization Mode Dispersion		≤ 0.15				ps
Return Loss		≥ 45				dB
Directivity		≥ 50				dB
Maximum Power Handling		500				mW
Operating Temperature		-40~+85				°C
Storage Temperature		-40~+85				°C
Fiber Type		G657A1				-
Fiber Length		1±0.05				m
Pigtail Type		900um loose tube(Hytrel)				-
Cable Color		White				-
Connector		FC/APC				-
Package Size	Metal	L25×W10×H6.5				mm

SPECIFICATIONS

APPLICATION

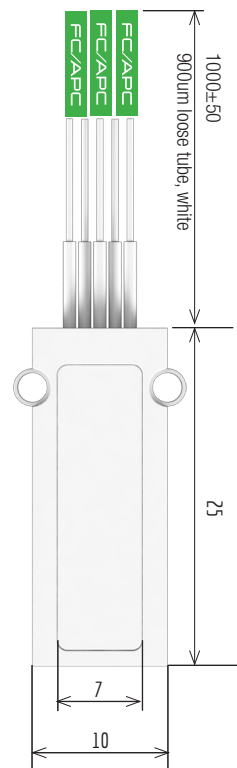
- Wave Division Multiplexing System
- Metro network
- Fiber to the Home (FTTH)
- Mobile Backhaul

FEATURES

- Smaller footprint
- Lower insertion loss
- Handle multiple channels
- Straightforward integration
- Excellent thermal stability

RELIABILITY - ROHS ASSURANCE REQUIREMENT

- Telcordia GR-1209 core
- Telcordia GR-1221 core
- RoHS10 compliance



DIMENSIONS (Unit:mm)

*Notes: 1.InsertionLoss tested without connector

PIONEERING CUSTOM FIBER OPTIC SOLUTIONS FOR YOUR UNIQUE NEEDS

Toll free number 1-855-SNW-TECH
 Please contact your local sales representative for further details or questions.

8CH CDWDM MODULE



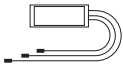
The reliability of the CDWDM device is ensured through rigorous testing.

This includes a 1000-hour high-temperature and humidity test and an airtight screening process. The device is also tested under low-temperature conditions of -55°C, demonstrating its resilience and reliability across various environments.

PARAMETERS		SPECIFICATIONS	UNIT
Channel Number		8	CH
Channel Spacing		100	GHz
Operating Wavelength(O)		1425-1620	nm
DWDM Center Wavelength		ITU bands: 14-21,22-29,30-37,38-45,46-53,54-61	--
Channel Passband		ITU±0.135 (ITU±0.11)	nm
Insertion Loss ¹ (CH Port)		(≤1.5 at 0~75°C) (1.8dB @-40~80°C)	dB
UPG Insertion Loss		≤1.5 @1520-1620 ≤1.8 @1425-1520	dB
Channel Isolation	Adjacent	≥30	dB
	Non-adjacent	≥45	
Upgrade Port Isolation		≥12	dB
Directivity(CH Port)		≥55	dB
Return Loss(On any Port)		≥45	dB
Polarization Dependent Loss (PDL)		≤0.25@25 &85 ≤0.5(typ 0.2)@-40	dB
Polarization Mode Dispersion (PMD)		≤0.4	ps
Maximum Power Handling		500	mW
Operating Temperature		-40~+85	°C
Storage Temperature		-40~+85	°C
Storage Relative Humidity		5~95	%
Fiber Type		G657A1(R15) Corning SMF-28 Ultra	--
Fiber Length		>1.5	m
Pigtail Type		250um bare fiber	--
Fiber Color		Transparent	--
Connector		None	--
Package Size	Metal	L49×W29×H7.0(±0.3)	mm

SPECIFICATIONS

OTHER PACKAGES



Mini Modules



Devices



ABS Boxes



Plug in &
LGX Packages

*Notes: 1.Insertion Loss tested without connector

DIMENSIONS (UNIT:mm)

