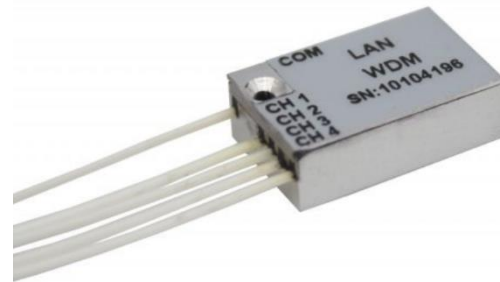# LAN WDM Mux/Demux Module LWDM

Description

Single Fiber LAN-WDM Mux Demux is usually used for 5G fronthaul network where wavelengths are packed tightly together over the O-band, up to 8 wavelengths in 800GHz grid(4.5nm). Based on Thin-Film-Filter (TFF), this LAN-WDM Mux Demux features small form factor, ultra-low insertion loss, high channel isolation, and unparallel reliability. It incorporates the existing 4G network and manage highly dense fiber connections in 5G network in a cost-effective way.

Features:

--Telcordia GR-1221 and GR-1209 Compliance

--Ultra mini size

--Low insertion loss

--Excellent temperature stability

--Epoxy free optical path

--ABS version and AWG version for option

Application:

--Optimized package for CFP transceiver modules

--Local area network

--According to 100Gbps IEEE 802.3ba standard

Specification

Parameters		Unit	Min	Type	Max
Operating Wavelength		nm	1280		1330
Channels Number				4	
Channel Spacing		GHz		800	
Channel ITU Wavelength	CH1	nm	1294.53	1295.56	1296.59
	CH2		1299.02	1300.05	1301.09
	CH3		1303.54	1304.58	1305.63
	CH4		1308.09	1309.14	1310.19
Insertion Loss (without connector)		dB			1.5
Passband Ripple		dB			0.5
Adjacent Channel Isolation		dB	25		
Non-Adjacent Channel Isolation		dB	35		
PDL		dB			0.3
Directivity		dB	50	55	
Return Loss		dB	45	50	
Operating Temperature		℃	-10		80
Storage Temperature		℃	-40		85
Package Dimensions		mm	100X80X10 or 20X12X6.5		
Fiber Type		Single mode fiber			

Product Configuration:

LAN-WDM 4CH

COM

	CH1
1295.56	
1300.05	CH2
1304.58	CH3
1309.14	CH4

100X80X10mm
ABS BOX

1295.56
1300.05
1304.58
1309.14
COM

COM
CH1
CH2
CH3
CH4

LAN-WDM

COM
CH1
CH2
CH3
CH4