

10G Multi-channel OEO Convertor



10G Multi-channel OEO Convertor can multiplex many different wavelengths (100GHz or 200GHz spacing) to be combined in one fiber and demultiplex at the other end of the fiber, what's more, it supports various of systems such as 10Gbits/s SDH/SONET, 10Gigabit Ethernet. So, the converter provides a powerful and cost-effective solution for cable-shortage areas.

Features

- DWDM output wavelengths available
- Up to 8 channel for one package

Applications

- SDH/SONET STM-64/OC-192
- 10G Ethernet System

Specifications

Optical interface characteristics(T=25℃,PRBS 2³¹-1,BER=10⁻¹²)

Parameter	Unit	Value	Test condition
Center Wavelength	nm	ITU-T grid	ITU-TG.694.1
Output Optical Power Level	dBm	-3~+3	40km
Spectral Width(-20dB)	nm	≤0.4	NRZ@10Gb/s
SMSR	dB	≥30	
Extinction Ratio	dB	≥8.2	
Receiver Wavelength	nm	1100~1650	
Receiver Sensitivity1	dBm	≤-14(PIN); ≤-22(APD)	
Receiver Overload Power	dBm	≥-1(PIN); ≥-8(APD)	
Reflection	dB	≤-27	
Power Consumption	W/ch	≤10	
Transmission Distance	km	40/80	ITU-TG..691
Link Budget	dB	≤11	40km G.652
Chromatic Dispersion	ps/nm	800/1600	ITU-TG..691 40km
Optical Path Penalty	dB	≤2	G.652 SMF

Note:1、Test condition:back to back

MUX/DMUX(DWDM)

Parameter	Unit	Value
2ch		< 1.8
Insertion Loss 4ch	dB	< 2.0
8ch		< 3.2
Channel Uniformity	dB	1.0
Adjacent Channel Isolation	dB	≥25
Wavelength Thermal Stability	nm/°C	≤0.001(test condition 0~60°C)

Operating condition

Parameter	Unit	Value
Operation Temperature	°C	0~+50
Storage Temperature	°C	-40~+85
Relative Humidity		≤90%
AC Power Supply	V	220AC
DC Power Supply	V	-48DC

Ordering information

OEO - 10G - MW - F -	
Power	Package
A:-48V DC、B:220V AC	14:483×355×178mm

OEO - 10G - MW -				
Bit Rate	Conversion Mode	Dispersion Limited Distance	Receiver Type	Connector
1:9.95Gb/s	SS	40:40Km	P:PIN	FC/UPC
2:10.3Gb/s		80:80Km	A:APD	
3:10.6Gb/s				
4:10.7Gb/s				

Note:ss(single-mode fiber to single-mode fiber)

OEO - 10G - MW -			
Type	Channel Number	Connector	Package
M:MUX	1:1channel	MU/UPC	11:483×255×44mm
D:DMUX			(for DMUX)
M/D:MUX/DMUX	8:8channel		D:plug and play)