

# DWDM SFP 10G 80KM SM LC, DDM

Optical Transceiver, SFP,10G,DWDM,80KM,LC

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## Variants

CH 33 CH 46 CH 52 CH 31 CH 51 CH 36 CH 30 CH 37 CH 35 CH 38 CH  
40 CH 49 CH 45 CH 48 CH 50 CH 34 CH 32 CH 39 CH 29 CH 47

## Details

## SFP+ 10G DWDM 80KM DDM

The SFP+ 10G DWDM 80KM DDM optical transceiver is designed for high-speed 10G transmission over single-mode fiber with support for DWDM applications. It features hot-pluggable design, Duplex LC connector, digital diagnostics, and stable long-distance performance up to 80km.

## Key Features

No.	Feature
1	Supports 9.95 to 11.3Gb/s bit rates
2	Hot-Pluggable
3	Duplex LC connector
4	100GHz ITU Grid, C Band
5	DWDM EML transmitter, APD photo-detector
6	Supports SMF links up to 80km
7	2-wire interface compliant with SFF-8472 digital diagnostics monitoring

8	Power Supply: +3.3V
9	Power consumption < 1.5W
10	Temperature Range: 0°C to 70°C
11	RoHS compliant

## Applications

No.	Application
1	10GBASE-ZR/ZW Ethernet
2	Sonet OC-192 / SDH
3	10G Fibre Channel
4	DWDM Networks

## Absolute Maximum Ratings

Parameter	Symbol	Min.	Typical	Max.	Unit
Storage Temperature	TS	-40	-	+85	°C
Case Operating Temperature	TA	0	-	70	°C
Maximum Supply Voltage	Vcc	-0.5	-	4	V
Relative Humidity	RH	0	-	85	%

## Electrical Characteristics

Parameter	Specification
Supply Voltage	3.135 to 3.465 V
Supply Current	450 mA max
Power Consumption	1.5 W max
Input Differential Impedance	100 $\Omega$
Differential Input Voltage Swing	180 to 700 mV
Rx Output Differential Voltage	300 to 850 mV

## Optical Parameters

Parameter	Specification
Center Wavelength	100GHz ITU Grid, C Band
Average Optical Power	Up to +5 dBm
Laser Off Power	-30 dBm
Extinction Ratio	3.0 dB min
Relative Intensity Noise	-128 dB/Hz
Optical Return Loss Tolerance	20 dB
Receiver Wavelength Range	1480 to 1565 nm
LOS Assert	-40 dBm
LOS De-Assert	-24 dBm
LOS Hysteresis	0.5 dB
Receiver Overload	-7 dBm

## Timing Characteristics

Parameter	Value
Receiver LOS Deassert Time	100 us
Rate-Select Change Time	100 us
Serial ID Clock Time	10 us / 100 kHz