

TSFP1G-100(I)

SFP, ZX, Tunable, DWDM C-band, 1G, 100+km, SMF/LC



Product Features:

- MZM Tunable Laser
- APD Receiver
- Tunable ITU Channels 13.5-61
- 50GHz DWDM Spacing
- SMF Transmission Medium
- LC/UPC Connector
- Digital Diagnostics Monitoring (DDM)
- C and I-Temp Available
- <2.3W Power Consumption
- Auto Part Number Wavelength Reporting



Product Applications:

- Enterprise Networks
- 1000BASE-ZX Ethernet

Standards:

- Compliant with SFF-8690, SFF-8472
- IEEE802.3
- RoHS 6 compliant

General Specifications

Parameter	Min	Typ	Max	Unit
Case Operating Temperature (C-Temp)	0	-	70	°C
Case Operating Temperature (I-Temp)	-40	-	85	°C
Power Consumption	-	-	2.3	W
Power Supply Current	-	-	730	mA
Power Supply Voltage	3.14	3.3	3.47	V
Storage Humidity	5	-	95	%
Storage Temperature	-40	-	85	°C
Transmission Distance	-	100	120	km
Data Rate (Total)	-	-	1.25	Gbps

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Optical Characteristics: Transmitter

Parameter	Min	Typ	Max	Unit
Wavelength Range	1528.77	-	1566.72	nm
Frequency Accuracy	-2.5	-	2.5	GHz
Transmit Power (BOL)	0	-	3	dBm
Transmit Power (EOL)	-0.5	-	3.5	dBm
Spectral Width	-	0.3	0.5	nm
Side Mode Suppression Ratio	35	-	-	dB
Extinction Ratio	9	-	-	dB
Transmitter OFF Output Power	-	-	-35	dBm
Tuning Speed	-	2	10	s

Optical Characteristics: Receiver

Parameter	Min	Typ	Max	Unit
Receiver Wavelength	1525	-	1575	nm
Damage Threshold	5	-	-	dBm
Input Saturation Power	-7	-	-	dBm
Receiver Sensitivity	-	-	-28	dBm
LOS Assert	-	-	-27	dBm
LOS De-Assert	-	-	-25	dBm
LOS Hysteresis	0.5	-	4	dB

Product Ordering Information

Part Number	Description
TSFP1G-100	SFP, ZX, Tunable, DWDM C-band, 1G, 100km, SMF/LC, External Tune w/APN, C-Temp, DDM
TSFP1G-100I	SFP, ZX, Tunable, DWDM C-band, 1G, 100km, SMF/LC, External Tune w/APN, I-Temp, DDM