

QSFP-100G-OWDMxxxx-ER-SY

100GBASE-OWDM ER1 QSFP28, xxxx nm, 20 km SMF TRANSCEIVER

1. FEATURES AND SPECIFICATIONS

- Form Factor: QSFP28
- Operating Data Rate: 100G
- Protocol(s): 100GE
- Fiber Type: SMF
- Technique: OWDM ER1
- Lane Count: 1
- Wavelength(s)/Channel(s): 1295.56 nm ~ 1311.43 nm
- Nominal Distance: 20 km

- Nominal Power Budget: 15.7 dB
- Connector: LC duplex
- Temperature Range: -5 to 80°C
- Compliance: MSA QSFP28, IEEE 802.3bs
- Monitoring: Digital diagnostic monitor interface
- Laser Type: DFB
- Receiver Type: APD
- Power Dissipation: 5.5 W

2. ABSOLUTE CHARACTERISTICS

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
SIGNAL INPUT VOLTAGE	V _{IN}	-0.3	-	3.9	V
POWER SUPPLY VOLTAGE	V _{cc}	0	-	3.6	V
OPERATING TEMPERATURE	T _{CASE}	-5	-	80	°C
STORAGE TEMPERATURE	Ts	-40	-	85	°C



3. ELECTRICAL OPERATING CONDITIONS

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
SUPPLY CURRENT	I _{cc}	-	-	1.8	A
SUPPLY VOLTAGE	V _{CC}	3.13	3.3	3.47	V

4. OPTICAL CHARACTERISTICS

RECEIVER

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
OPTICAL WAVELENGTH	λC	1294.53	-	1311.96	nm
LOS HYSTERESIS	LOS _H	0.5	-	-	dB
LOS ASSERT	LOS _A	-30	-	-	dBm
LOS DE-ASSERT	LOS _D	-	-	-16.5	dBm
RX MAX. SENSITIVITY	P _{MIN}	-	-	-15.7	dBm
DAMAGE THRESHOLD	P _{MAX}	-2.4	-	-	dBm

TRANSMITTER

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
OPTICAL WAVELENGTH	λC	λ - 0.4 nm	λ	λ + 0.4 nm	nm
OPTICAL EXTINCTION RATIO	ER	-	5	-	dB
SIDE MODE SUPPRESSION RATIO	SMSR	30	-	-	dBm
SPECTRAL WIDTH	Δλ	-	-	1	dBm
OPTICAL TRANSMIT POWER	P _{OUT}	0	-	3.4	dBm



5. ORDERING INFORMATION

	PART NAME		DESCRIP	DESCRIPTION						
	QSFP-100G-OWDMxxxx-ER-SY 100GBase OWDM ER1 QSFP28, xxxx.xx nm, 20 km over SMF, LC duplex, speeddy									
6. O	OWDM CHANNEL LIST									
	CHANNEL	λ (nm)	CHANNEL	λ (nm)	CHANNEL	λ (nm)	CHANNEL	λ (nm)		
	1295	1295.56	1300	1300.05	1304	1304.58	1309	1309.14		
	1296	1296.68	1301	1301.18	1305	1305.72	1310	1310.28		
	1297	1297.80	1302	1302.31	1306	1306.85	1311	1311.43		
	1298	1298.93	1303	1303.45	1308	1308.00	1312	1312.58		

7. WARNINGS AND SECURITY INFORMATION



CAUTION: Class 1 visible laser radiation present. Long term viewing of the laser can be harmful to the human eye.



This equipment has been tested according to European legislation and has been found safe, non-intervening with other electronic devices and is not subject to interference from other electronic devices



Hazardous Goods; our products are fully compliant with Directive 2011/65/EU (RoHS II) and 2002/95 EC (RoHS I)

Laser Class 1

Our products comply with 21 CFR 1040.10 and 1040.11, except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007



Only (dis)connect the transceivers in an ESD Protected Area while using certified equipment and taking all necessary precautions as specified in IEC 61340-5-1.

8. DISCLAIMER AND LEGAL NOTICES

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