

QSFPDD-400G-SR8-MPO-SY

400G BASE-SR8 QSFP-DD, 850 nm, 100 m MMF TRANSCEIVER

1. FEATURES AND SPECIFICATIONS

▶ Form Factor: QSFP-DD

> Operating Data Rate: 400G

Protocol(s): 400GE

Fiber Type: MMF

▶ Technique: SR8

Lane Count: 8

Wavelength(s)/Channel(s): 850 nm

Nominal Distance: 100 m

Nominal Power Budget: 1.4 dB per lane

> Connector: MPO duplex

Temperature Range: 0 to 70°C

> Compliance: MSA QSFP-DD, IEEE 802.3bs

Monitoring: Digital diagnostic monitor interface

▶ Laser Type: VCSEL

Receiver Type: PIN

Power Dissipation: 8.5 W

2. ABSOLUTE CHARACTERISTICS

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
SIGNAL INPUT VOLTAGE	V_{IN}	-0.8	-	3.9	V
POWER SUPPLY VOLTAGE	V_{cc}	-0.8	-	3.6	V
OPERATING TEMPERATURE	T_{CASE}	0	-	70	°C
STORAGE TEMPERATURE	Ts	-40	-	85	°C



3. ELECTRICAL OPERATING CONDITIONS

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
SUPPLY CURRENT	Icc	-	-	3.6	А
SUPPLY VOLTAGE	V_{CC}	3.13	3.3	3.47	V

4. OPTICAL CHARACTERISTICS

RECEIVER

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
OPTICAL WAVELENGTH	λC	840	850	860	nm
LOS HYSTERESIS	LOS _H	0.5	-	-3	dB
LOS ASSERT	LOS_A	-30	-	-10	dBm
LOS DE-ASSERT	LOS_D	-	-	-8.5	dBm
RX MAX. SENSITIVITY	P _{MIN} /lane	-	-	-7.9	dBm
DAMAGE THRESHOLD	P_{MAX}	4	-	-	dBm

TRANSMITTER

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
OPTICAL WAVELENGTH	λC	840	850	860	nm
OPTICAL EXTINCTION RATIO	ER	3	-	-	dB
SIDE MODE SUPPRESSION RATIO	SMSR	30	-	-	dBm
SPECTRAL WIDTH	Δλ	-	-	0.6	dBm
OPTICAL TRANSMIT POWER	P _{OUT} /lane	-6.5	-	4	dBm



5. ORDERING INFORMATION

PART NAME

DESCRIPTION

QSFPDD-400G-SR8-MPO-SY

400GBase SR8 QSFP-DD, 850 nm, 100 m over MMF, MPO duplex, speeddy

6. 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.

7. DISCLAIMER AND LEGAL NOTICES

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