

PRE-QSFP56DD-SR8

QSFP-DD, SR8 PAM4, 850nm, 400G, 100m, MPO16



Product Features:

- Single Wave PAM4
- 850nm Wavelengths
- MMF Transmission Medium
- MPO-16/APC Connector
- Digital Diagnostic Monitoring
- C-Temp Rated
- 400Gbps Maximum Data Rate
- <8.5W Power Consumption



Product Applications:

- Data Center
- Enterprise Networks
- Top of Rack Connectivity

Standards:

- QSFP-DD CMIS 4.0 MSA
- IEEE 802.3cm
- RoHS 10

General Specifications

Parameter	Min	Typ	Max	Unit
Case Operating Temperature	0	-	70	°C
Power Consumption	-	-	8.5	W
Power Supply Voltage	3.14	3.3	3.46	V
Operating Humidity	0	-	85	%
Storage Temperature	-40	-	85	°C
Transmission Distance ¹	-	-	70	m
Transmission Distance ²	-	-	100	m
Data Rate (Total)	-	425	-	Gbps
Signaling Data Rate per Lane	-	26.5625	-	GBd

1. OM3 Fiber
2. OM4 Fiber

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Transmitter Characteristics

Parameter	Min	Typ	Max	Unit
Center Wavelength	840	850	860	nm
Transmit Power per Lane (Avg)	-6.5	-	4	dBm
Outer Optical Modulation Amplitude (OMA _{outer}), per Lane	-4.5	-	3	dBm
Extinction Ratio	3	-	-	dB
Tx Power in OMA _{outer} minus TDECQ, per Lane	-5.9	-	-	dBm
Side Mode Suppression Ratio	30	-	-	dB
Transmitter and Dispersion Eye Closure, per Lane	-	-	4.5	dB
Extinction Ratio	3	-	-	dB
Spectral Width	-	-	.6	nm
Relative Intensity Noise (OMA)	-	-	-128	dB/Hz
Optical Return Loss Tolerance	-	-	12	dB
Transmitter OFF Output Power per Lane	-	-	-30	dBm

Receiver Characteristics

Parameter	Min	Typ	Max	Unit
Center Wavelength	840	850	860	nm
Damage Threshold per Lane (Avg)	5	-	-	dBm
Receive Power per Lane (Avg)	-8.4	-	4	dBm
Receive Power (OMA _{outer}) per Lane	-	-	3	dBm
Stressed Receiver Sensitivity (OMA _{outer})	-	-	-3.4	dBm
LOS Assert	-30	-	-	dBm
LOS De-Assert	-	-	-12	dBm
LOS Hysteresis	0.5	-	-	dB

Product Ordering Information

Part Number	Description
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