

# PRE-QSFP56DD-ZRXT

QSFP-DD, OIF ZR, 400G, 120km, 4dBm Tx, 193.7THz

## Product Features:

- Digital Coherent
- 1x400GAUI-8 400ZR
- Fixed Wavelength Point to Point
- 4dBm High Output Power
- >120km at 400G<sup>1</sup>
- Duplex LC-UPC Connector
- C-Temp
- <22.5W Power Consumption



## Product Applications:

- Data Center Interconnect
- 400Gbase-ZR

## Standards:

- QSFP-DD MSA 6.3
- OIF-400ZR-02.0
- CMIS 5.2 and C-CMIS 1.2
- IEEE 802.3-2018
- RoHS 2 Compliance

<sup>1</sup> Unamplified Point to Point

## General Specifications:

Parameter	Min	Typical	Max	Unit
Case Operating Temperature	0	-	70	°C
Power Consumption	-	-	22.5	W
Power Supply Voltage	3.135	3.3	3.465	V
Operating Humidity	5	-	85	%
Storage Temperature	-40	-	85	°C
Transmission Distance	-	-	120 <sup>1</sup>	km
Symbol Rate	-	59.84	-	Gbd
Data Rate (Total)	-	400	-	Gbps

<sup>1</sup> Unamplified, Single Wave Point to Point.

## Line Interface Modes:

Mode	Modulation	FEC	Standard
400G	16QAM	C-FEC	OIF

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## Optical Characteristics: Transmitter

Parameter	Min	Typical	Max	Unit
Tx Output Power Range	-	4	-	dBm
Wavelength	-	1547.72 <sup>1</sup>	-	nm
Frequency	-	193.7	-	THz
Frequency Accuracy	-1.8	-	1.8	GHz
Tx Power Stability (Across Temp)	-1.0	-	1.0	dB
Output Power Mon Accuracy	-1.0	-	1.0	dB
Tx Disabled Power	-	-	-20.0	dBm
Reflectance	-	-	-20.0	dB
OSNR In-Band (>150GHz)	38.0	-	-	dB/0.1nm

<sup>1</sup> 1547.72nm is fixed and considered “grey” wave DWDM

## Optical Characteristics: Receiver

Parameter	Min	Typical	Max	Unit
Rx Input Power	-20	-	0	dBm
OSNR Tolerance	-	-	26	dB/0.1nm
Rx Sensitivity (OSNR>34dB)	-	-	-20	dBm
Damage Threshold	10	-	-	dBm
Input Power Monitor Accuracy	-2	-	2	dBm
CD Tolerance	-	-	2400	ps/nm
CD Monitor Accuracy	-200	-	200	Ps/nm
Optical Return Loss	20	-	-	dB

## Product Ordering Information:

Part Number	Description
PRE-QSFP56DD-ZRXT	QSFP-DD, OIF ZR, 400G, 120km, 4dBm Tx, 193.7THz, C-Temp