

QSFP56-DD-PC-2X200G

400GBASE, QSFP56-DD to 2xQSFP56, Passive Copper Direct Attach Cable Assembly

Product Features

- Hot-plug QSFP-DD and 2xQSFP56 form factor
- Eight-lane electrical interface transmits up to 28Gbps NRZ or 56Gbps PAM-4
- MEET SFF-8636& QSFP-DD MSA
- MEET IEEE802.3bj&IEEE802.3 cd
- Support I2C two - line string interface
- Support for hot plugging
- Low crosstalk
- Available Temperature ranges:
 - 0°C to +70°C



Product Applications

- Data Storage and Communication Industry
- Data Center Network
- Switch/Router /HBA
- Enterprise Network

I. Absolute Maximum Ratings

Exceeding the limits below may damage the transceiver module permanently.

Parameter	Symbol	Min.	Typ.	Max.	Units
Storage Temperature		-20		+85	°C
Operating Case Temperature	Tc	0		70	°C
Relative Humidity (non-condensing)	RH	5		95	%

II. Operating Specification

Parameter	Symbol	Min.	Typ.	Max.	Units
Baud Rate per Lane (PAM4)	fd		26.5625		GBaud/s
Relative Humidity	RH	5		85	%

III. Performance Information

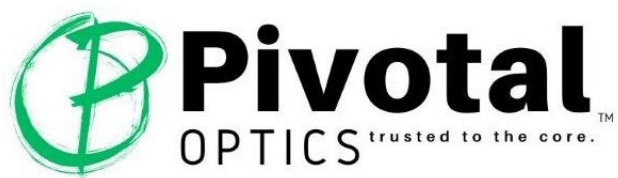
Parameter	Symbol	Min.	Typ.	Max.	Units	Notes
Differential Impedance	TDR	90	100	110	Ω	
Insertion loss	SDD21	-16.06			dB	@ 13.28 GHz
Differential Return Loss	SDD11 SDD22			Note 1	dB	@ 0.05 to 4.1 GHz
				Note 2		@ 4.1 to 19 GHz
Common-mode to common-mode output return loss	SCC11 SCC22			-2	dB	
Differential to common-mode return loss	SCD11 SCD22			Note 3	dB	@ 0.01 to 12.89 GHz
				Note 4		@ 12.89 to 19 GHz
Differential to common Mode Conversion Loss	SCD21-IL			-10	dB	@ 0.01 to 12.89 GHz
				Note 5		@ 12.89 to 15.7 GHz
				-6.3		@ 15.7 to 19 GHz

Notes:

1. Reflection Coefficient given by equation $SDD11(dB) < -16.5 + 2 \times \text{SQRT}(f)$, with f in GHz
2. Reflection Coefficient given by equation $SDD11(dB) < -10.66 + 14 \times \log_{10}(f/5.5)$, with f in GHz
3. Reflection Coefficient given by equation $SCD11(dB) < -22 + (20/25.78) \times f$, with f in GHz
4. Reflection Coefficient given by equation $SCD11(dB) < -15 + (6/25.78) \times f$, with f in GHz
5. Reflection Coefficient given by equation $SCD21(dB) < -27 + (29/22) \times f$, with f in GHz

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IV. Ordering Information

Part Number Breakdown			
QSFP56-DD-PC-2X200G- X			
Parameter	Min	Max	Notes
Cable Gauge (AWG)	28	30	
Cable Length (meters)	1	3	X
Platform Advantage	Multi-Vendor coding options available upon request		

Notes:

1. Please contact sales for custom cable lengths and specific OEM Platform part numbers to fit your network.

Warranty

<https://pivotaloptics.com/warranty/>

Disclaimer

External physical characteristics are subject to variation. This may include, but is not limited to, external case designs, pull tab colors and/or shapes, removal latch styles or colors, and label sizes and placement. These variations do not affect the function or characteristics of the transceivers.