

Features

- OSFP TYPE2 Module compliant to OSFP MSA
- Transmission data rate up to PAM4 106.25Gbps per channel
- Enable 800Gb/s Transmission
- Link length up to 3m
- Built-in EEPROM functions
- Operating case temperature 0°C to +70°C
- RoHS2.0 compliant



1. Absolute Maximum Ratings

Parameter	Symbol	Min	Typical	Max	Units
Supply Voltage	Vcc	3.13	3.3	3.47	V
Storage temperature	Ts	-40		85	°C
Operating Case temperature	Tc	0		70	°C
Humidity	Rh	5		85	%
Data Rate			800		Gbps

2. Recommended Operating Conditions

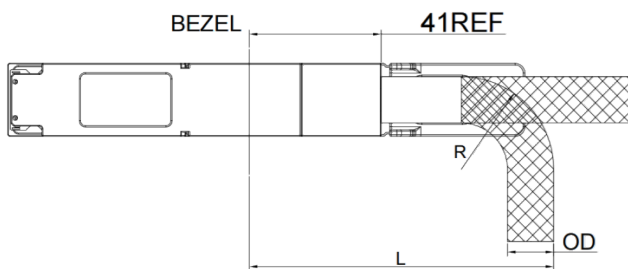
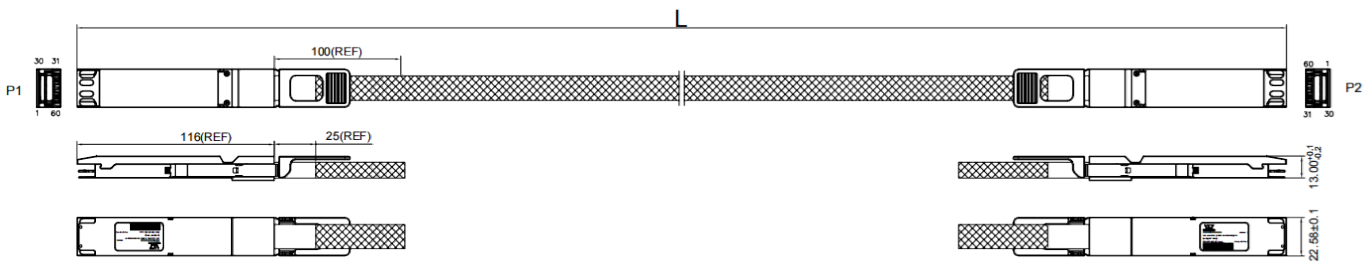
Parameter	Symbol	Min	Typical	Max	Units
Length	L	0.5		3.0	M
AWG		28		25	AWG
Jacket material	HAIRTAIL +Technology Net, Sliver Gray				

3. Electrical Characteristics

Parameters	Symbol	Min.	Typ.	Max.	Unit
Resistance	Rcon	-	-	3	ohm
Insulation Resistance	Rins	-	-	10	Mohm
Raw cable impedance	Zca	95		110	ohm
Mated connector Impedance	Zmated	85		110	ohm
Maximum insertion loss at 26.56 GHz	SDD21	11		18(1.5M)	dB
				19.75(2.0M)	
				25.3(3M)	

Differential to common-mode return loss	SCD11/22	$RL_{cd}(f) \geq \begin{cases} 22 - 10(f/26.56) & 0.05 \leq f < 26.56 \\ 15 - 3(f/26.56) & 26.56 \leq f \leq 40 \end{cases}$ <p>For $0.05 \leq f \leq 40$ GHz, Where f is the frequency in GHz</p>		dB
Differential to common-mode conversion loss	SCD21-SDD21	$Conversion_loss(f) - IL(f) \geq \begin{cases} 10 & 0.05 \leq f < 12.89 \\ 14 - 0.3108f & 12.89 \leq f \leq 40 \end{cases}$ <p>For $0.05 \leq f \leq 40$ GHz, Where f is the frequency in GHz</p>		dB
Common-mode to common-mode return loss	SCC11/22	$RL_{cc}(f) \geq 1.8$ <p>For $0.05 \leq f \leq 40$ GHz, Where f is the frequency in GHz</p>		dB
Minimum COM	COM	3		dB

4. Mechanical Diagram



GAUGE	OD	BEND RADIUS "R"	MIN. BEND RADIUS "L"
28AWG	10.2MM	21MM	81MM
26/25AWG	12.1MM	25MM	86MM

Note: 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.

5. Ordering Information

OEM	Part Number	OEM	Part Number
MSA	AN-O800G-CT-P-0.5M	Nvidia	MCP4Y10-N00A-CLT-A
MSA	AN-O800G-CT-P-1M	Nvidia	MCP4Y10-N001-CLT-A
MSA	AN-O800G-CT-P-1.5M	Nvidia	MCP4Y10-N01A-CLT-A
MSA	AN-O800G-CT-P-2M	Nvidia	MCP4Y10-N002-CLT-A
MSA	AN-O800G-CT-P-2.5M	Nvidia	MCP4Y10-N02A-CLT-A
MSA	AN-O800G-CT-P-3M	Nvidia	MCP4Y10-N003-CLT-A

6. Contact Information

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