

10Gb/s 40Km DWDM SFP+ Transceivers

RTXM228-2XX

The RTXM228-2XX transceivers are designed to transmit and receive serial optical data over 40km single mode optical fiber.

They are compliant with SFF-8431, SFF-8432, 10GFC, ITU-T G.691 and 10GBASE-ER/EW. The transmitter converts serial CML electrical data into serial optical data compliant with the IEEE 802.3ae standard. The receiver converts serial optical data into serial CML electrical data. Digital diagnostics functions are available via a 2-wire serial interface, as specified in SFF-8472.

Specifications

(Tc=-5 °C to 70 °C and Vcc= 3.14 to 3.46V)

Parameter	Symbol	Unit	Min	Typ	Max	Note
Transmitter						
Nominal Wavelength	λ	nm	1528.77		1563.05	
Center wavelength Spacing		GHz	-	100	-	
Wavelength Tolerance		pm	-50		50	
Side Mode Suppression Ratio	SMSR	dB	30			
Spectral Width(-20dB)	$\Delta \lambda$	nm			0.3	
Optical Output Power	Power	dBm	-1		2	
Extinction Ratio			8.2			
Transmitter and Dispersion Penalty	TDP	dB			3	1

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Ordering Information

Specifications		
Part No.		Application
	°C	

Electric Ports Definition

		VEER	10
11	VEER	RS1	9
12	RD	RX LOS	

Figure 2.Pin function definitions

Pin Number	Symbol	Name	Description
1,17,20	VeeT	Transmitter Signal GroundF3	

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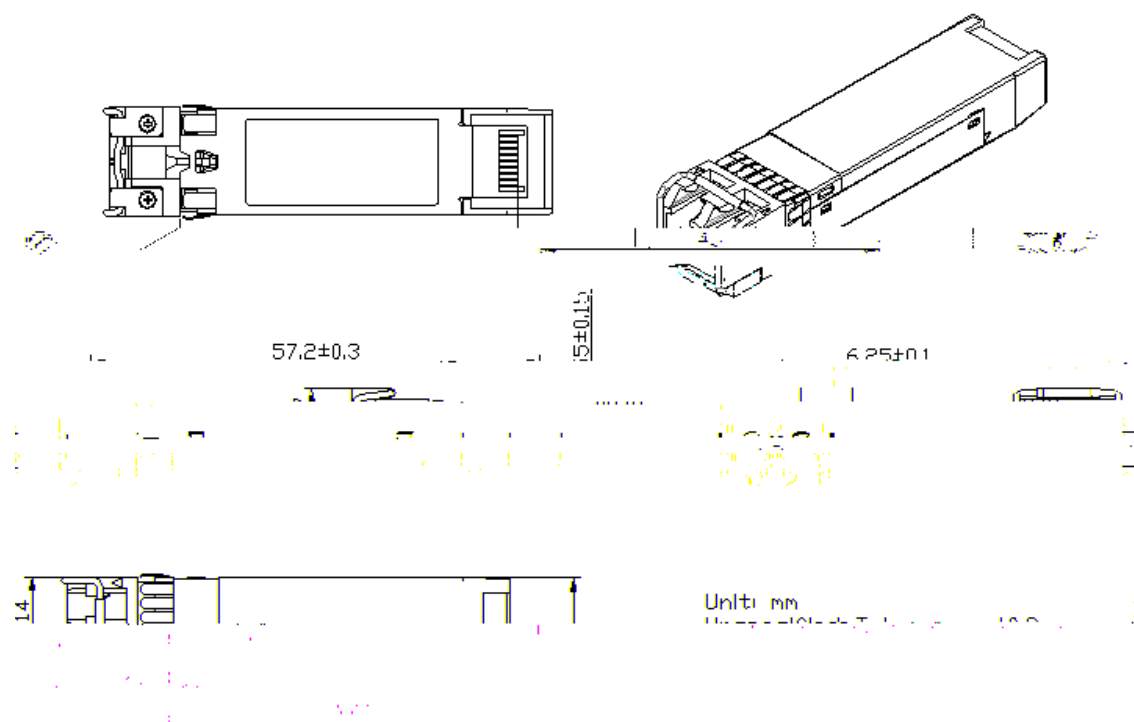
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board.			
f before t_fault)			
2	TX Fault	Transmitter Fault Out (OC)	This pin is open collector compatible, and should be pulled

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Typical Application Circuit

Package Outline



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