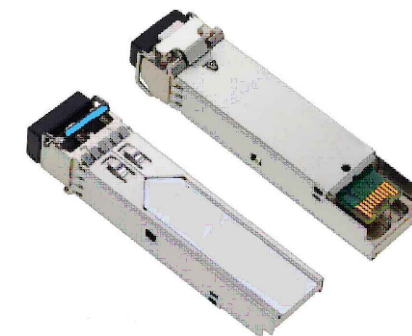
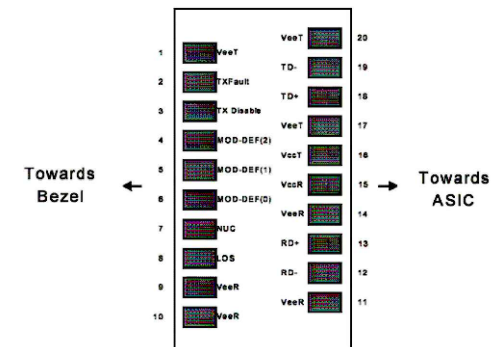


Pin assignment:



Note:

- Compliant with SFP MSA and SFF-8472
- Up to 1.25Gb/s Data Links
- Hot-Pluggable
- With DDM function
- Duplex LC connector
- Up to 20km on 9/125 μm SMF
- 1310nm FP and PIN photo-detector
- Single +3.3V Power Supply
- Maximum Power <1W
- Operating temperature range: 0° C ~70° C
- Class I laser safety requirements.
- RoHS compliant and Lead Free
- CE EMC

MATERIAL LIST:

⑤	LC Duplex Connector	1	
④	SFP Ring Blue	1	
③	PCB FR4	1	
②	Stainless steel unlock / shield	1	
①	SFP shell nickel plating of zinc alloy	1	
NO	SPECIFICATION STANDARD	QT'Y	REMARK

				PRODUCT NAME	1.25G SFP SM 1310nm LC 20km			
BY	CHK	NEW	2020-3-5	A	ITEM NO.	29212c284	UNIT	mm
REVISION RECORD MODIFICATIONS				DATE	REV.			



● Absolute Maximum Ratings

Parameter	Symbol	Min.	Typical	Max.	Unit
Storage Temperature	T _s	-40		+85	°C
Supply Voltage	V _{CC}	-0.5		4	V
Relative Humidity	RH	0		85	%

● Recommended Operating Environment:

Parameter	Symbol	Min.	Typical	Max.	Unit
Case operating Temperature	T _C	0		+70	°C
Supply Voltage	V _{CC}	3.135		3.465	V
Supply Current	I _{CC}			300	mA
Inrush Current	I _{surge}			I _{CC} +30	mA
Maximum Power	P _{max}			1	W

● Electrical Characteristics (V_{CC}=3.135 to 3.465 Volts)

Parameter	Symbol	Min.	Typical	Max.	Unit	Note
Transmitter Section:						
Input differential impedance	R _{in}	90	100	110		
Single ended data input swing	V _{inPP}	250		1200	mVp-p	
Transmit Disable Voltage	V _D	V _{CC} - 1.3		V _{CC}	V	2
Transmit Enable Voltage	V _{EN}	V _{ee}		V _{ee} +0.8	V	
Transmit Disable Assert Time	T _{dessert}			10	us	
Receiver Section:						
Single ended data output swing	V _{out,pp}	250		800	mv	3
LOS Fault	V _{iosfault}	V _{CC} - 0.5		V _{CC,host}	V	5
LOS Normal	V _{iosnom}	V _{ee}		V _{ee} +0.5	V	5
Power Supply Rejection	PSR	100			mVpp	6

● Optical Parameters (V_{CC}=3.135 to 3.465 Volts)

Parameter	Symbol	Min.	Typical	Max.	Unit	Note
Transmitter Section:						
Center Wavelength	λ _c	1270	1310	1360	nm	
Spectral Width(RMS)	σ _{RMS}			3	nm	
Optical Output Power	P _{out}	-9		-3	dBm	1
Extinction Ratio	ER	8.2			dB	
Optical Rise/Fall Time	t _r /t _f			260	ps	2
Relative Intensity Noise	RIN			-120	dB/Hz	
Output Eye Mask	Compliant with IEEE802.3 z(class 1 laser safety)					
Receiver Section:						
Optical Input Wavelength	λ _c	1260		1360	nm	
Receiver Overload	P _{ol}	0			dBm	4
RX Sensitivity	Sen			-24	dBm	4
RX_LOS Assert	LOS _A	-29			dBm	
RX_LOS De-assert	LOS _D			-19	dBm	
RX_LOS Hysteresis	LOS _H	0.5			dB	
General Specifications:						
Data Rate	BR		1.25		Gb/s	
Bit Error Rate	BER				10 ⁻¹²	
Max. Supported Link Length on 9/125μm SMF@1.25Gb/s	L _{MAX}		20		km	
Total System Budget	LB	8			dB	

Note

- The optical power is launched into SMF.
- 20-80%.
- Jitter measurements taken using Agilent OMNIBERT 718 in accordance with GR-253.
- Measured with PRBS 2⁷⁻¹ at 10⁻¹² BER

NEW
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2020-3-5
DATE

A
REV.

PRODUCT NAME
1.25G SFP SM 1310nm LC
20km
ITEM NO.
29212c284 UNIT mm



BY CHK