

Features

- Supports 1.244Gbps data links
- 1310nm DFB laser and PIN photodetector for 40km transmission
- 2xBi-directional transceivers in 1 SFP transceiver package
- Compliant with CSFP MSA Option 2 and SFF-8472
- Digital Diagnostic Monitoring: Internal Calibration or External Calibration
- Compatible with SONET OC-24 system
- Compatible with RoHS
- +3.3V single power supply
- Operating case temperature:
 0 to +70°C (Commercial)
 -40 to +85°C (Industrial)



Applications

- SDH STM-8 and SONET OC-24 system
- Fiber Channel
- Switch to Switch interface
- Point to Point FTTH Application
- Other optical transmission systems

1. Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage	Vcc	-0.5	4.5	V
Storage Temperature	Ts	-40	+85	°C
Operating Humidity	-	5	85	%

2. Recommended Operating Conditions

Parameter	Symbol	Min	Typical	Max	Unit
Operating Case Temperature	Commercial	Tc	0	+70	°C
	Industrial	Tc	-40	+85	°C
Power Supply Voltage	Vcc	3.13	3.3	3.47	V
Power Supply Current	Icc			450	mA
Data Rate				1244	Mbps

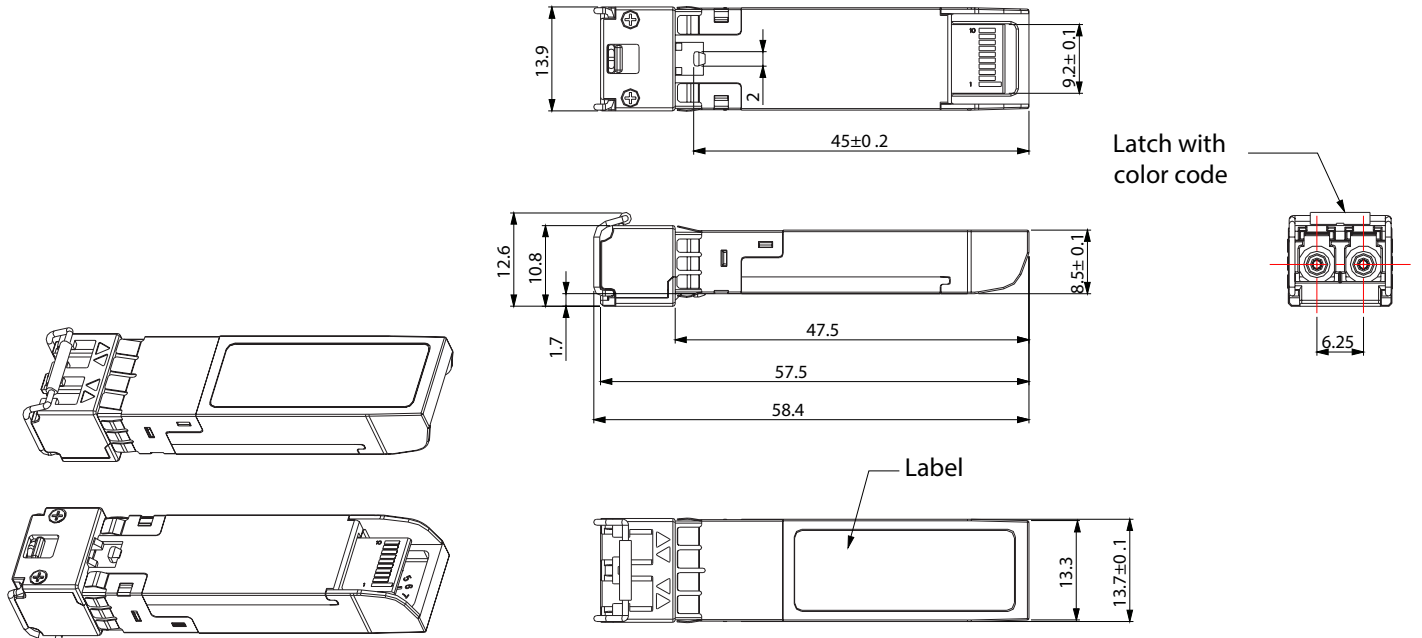
3. Optical and Electrical Characteristics

Parameter	Symbol	Min	Typical	Max	Unit	Notes
Transmitter						
Centre Wavelength	λ_c	1290	1310	1330	nm	
Spectral Width (-20dB)	σ			1	nm	
Side Mode Suppression Ratio	SMSR	30			dB	
Average Output Power	Pout	-5		0	dBm	1
Extinction Ratio	ER	9			dB	
Optical Rise/Fall Time (20%~80%)	tr/tf			0.26	ns	
Data Input Swing Differential	VIN	400		1800	mV	2
Input Differential Impedance	ZIN	90	100	110	Ω	
TX Disable	Disable		2.0	Vcc	V	
	Enable		0	0.8	V	
TX Fault	Fault		2.0	Vcc	V	
	Normal		0	0.8	V	
Receiver						
Centre Wavelength	λ_c	1470	1490	1510	nm	
Receiver Sensitivity				-25	dBm	3
Receiver Overload		0			dBm	3
LOS De-Assert	LOSD			-27	dBm	
LOS Assert	LOSA	-40			dBm	
LOS Hysteresis		1		4	dB	
Data Output Swing Differential	Vout	400		1800	mV	4
LOS	High		2.0	Vcc	V	
	Low			0.8	V	

Notes:

1. The optical power is launched into SMF.
2. PECL input, internally AC-coupled and terminated.
3. Measured with a PRBS 2²³-1 test pattern @1244Mbps, BER $\leq 1 \times 10^{-12}$.
4. Internally AC-coupled.

4. Mechanical Diagram



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
Calix	100-04064-A	MSA Generic	AN-CSFP-BXU-40-I

6. Contact Information

Tel: 800.590.9535

Web: <http://www.approvednetworks.com>