

Features:

- Supports up to 10.7Gbps bit rates
- Hot-pluggable SFP+ footprint
- 1550nm Cooled EML laser and APD photodiode, Up to 80km for SMF transmission
- Compliant with SFP+ MSA and SFF-8472 with duplex LC receptacle
- Compatible with RoHS
- Single +3.3V power supply
- Real Time Digital Diagnostic Monitoring
- Operating case temperature: -40 to + 85°C



Applications:

- 10Gbps Optical systems
- 10GBASE-ZR at 10.3125Gbps
- 10GBASE-ZW at 9.953Gbps
- LTE systems
- Other Optical links

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	Tc	-40		+85	°C
Power Supply Voltage	Vcc	3.135	3.30	3.465	V
Power Supply Current	Icc			450	mA
Data Rate		1.0	10.3	10.7	Gbps

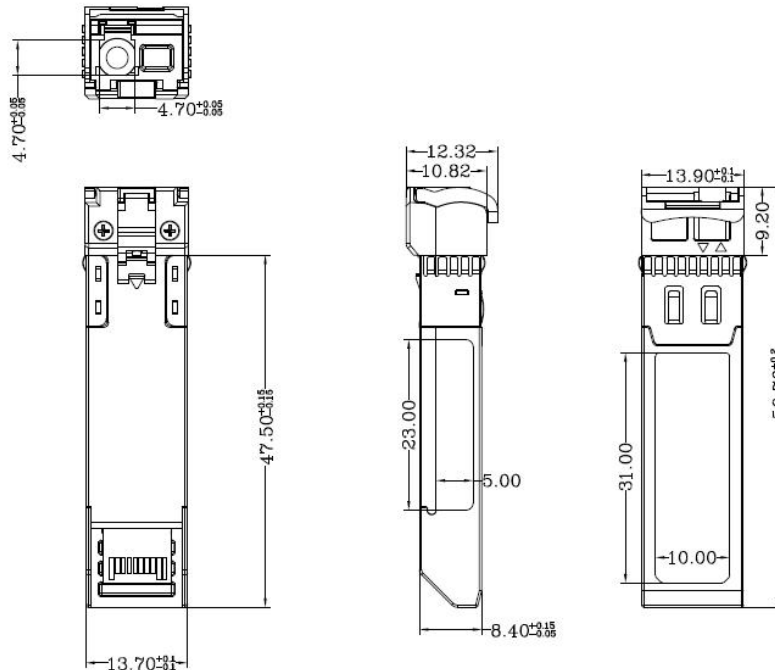
3. Optical and Electrical Characteristics

Parameter	Symbol	Min	Typical	Max	Unit	Notes
Transmitter						
Centre Wavelength	λ_c	1480	1490	1500	nm	
Spectral Width (-20dB)	$\Delta\lambda$			1	nm	
Side-Mode Suppression Ratio	SMSR	30	-		dB	
Average Output Power	Pout	0		+4	dBm	1
Extinction Ratio	ER	6			dB	
Data Input Swing Differential	VIN	180		850	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	1540	1550	1560	nm	
Receiver Sensitivity				-22	dBm	3
Receiver Overload		-6			dBm	3
LOS De-Assert	LOSD			-23	dBm	
LOS Assert	LOSA	-35			dBm	
LOS Hysteresis		0.5			dB	
Data Output Swing Differential	Vout	300		900	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 231-1 test pattern @10312Mbps, 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
Adtran	1442442F2-80-A	Cisco	10GS-B49-80I-CSC
Alcatel	3HE05037AA-80-A	Dell	407-BBOP-45-80-A
Arista	SFP-10G-BX80U-AN-A	Enterasys	10GB-BX80-U-A
Arista	SFP-10G-BX80U-AN-C1	Extreme	10302-BXU-80-A
Brocade	10G-SFPP-BXU-80-A	Juniper	EX-SFP-10GE-BXU-80-A
Calix	100-02150-80KM-A	Juniper	JNP-SFP-10GE-BX80U-A
Ciena	XCVR-S80U49-A	Juniper	SFP-10GE-BXU-80-A
Ciena	XCVR-S80U49-C1	Juniper	JNP-SFP-10GE-BX80U-C1
Cisco	SFP-10G-BX80U-I-A	MSA Champion ONE	10GSFP+E49B80L
Cisco	10GS-B49-80-CSC	MSA Champion ONE	10GSFP+E49B80L-H
Cisco	SFP-10G-BX80U-C-C1	MSA Generic	AN-SFP10G-BXU-80-I

6. Contact Information

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