SFP Optical Transceiver

Model: NCM-SPF-G-20

Features

- Dual data-rate of 1.25 Gbps/1.063 Gbps operation
- 1310nm FP laser and PIN photodetector for 10km transmission
- Compliant with SPFMSA and SFF-8472 with duplex LC receptacle
- Digital diagnostic Monitoring:
- Internal or External Calibration
- Compatible with SONET OC-24-LR-1 and RoHS
- +3.3 V single power supply
- Operating case temperature
  Standard: 0 to 70 ℃
  Industrial: -40 to 85 ℃



NCM-SFP-G-20

Unless otherwise noted, the above specifications reflect typical device performance at stated reference levels in the recommended operating configuration(s). Specifications are subject to change without notice.

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Model: NCM-SPF-G-20

Description

NCM-SFP-G-20 are high performance, cost effective modules supporting dual data-rate of 1.25 Gbps/1.063 Gbps operation and 10km transmission distance with single mode fiber.

Optical and Electrical Characteristics

Parameter		Symbol	Min	Typical	Max	Unit	Notes
Transmitter							
Centre Wavelength		λc	1260	1310	1360	nm	
Spectral Width (RMS)		Δλ			4	nm	
Average Output Power		Pout	-11		-2	dBm	1
Extinction Ratio		ER	9			dB	
Optical Rise/Fall Time (20%-80%)		tr/tf			0.26	ns	2
Data Input Swing Differential		Vin	400		1800	mV	
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		λc	1260		1360	nm	
Receiver Sensitivity					-23	dBm	3
Receiver Overload			-3			dBm	3
LOS De-Assert		LOS_D			-24	dBm	
LOS Assert		LOS_A	-35			dBm	
LOS Hysteresis			1		4	dB	
Data Input Swing Differential		Vout	370		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 PRBS 2^7 -1 test pattern @1250 Mbps, BER ≤ $1x10^{-12}$

4.Internally AC-coupled

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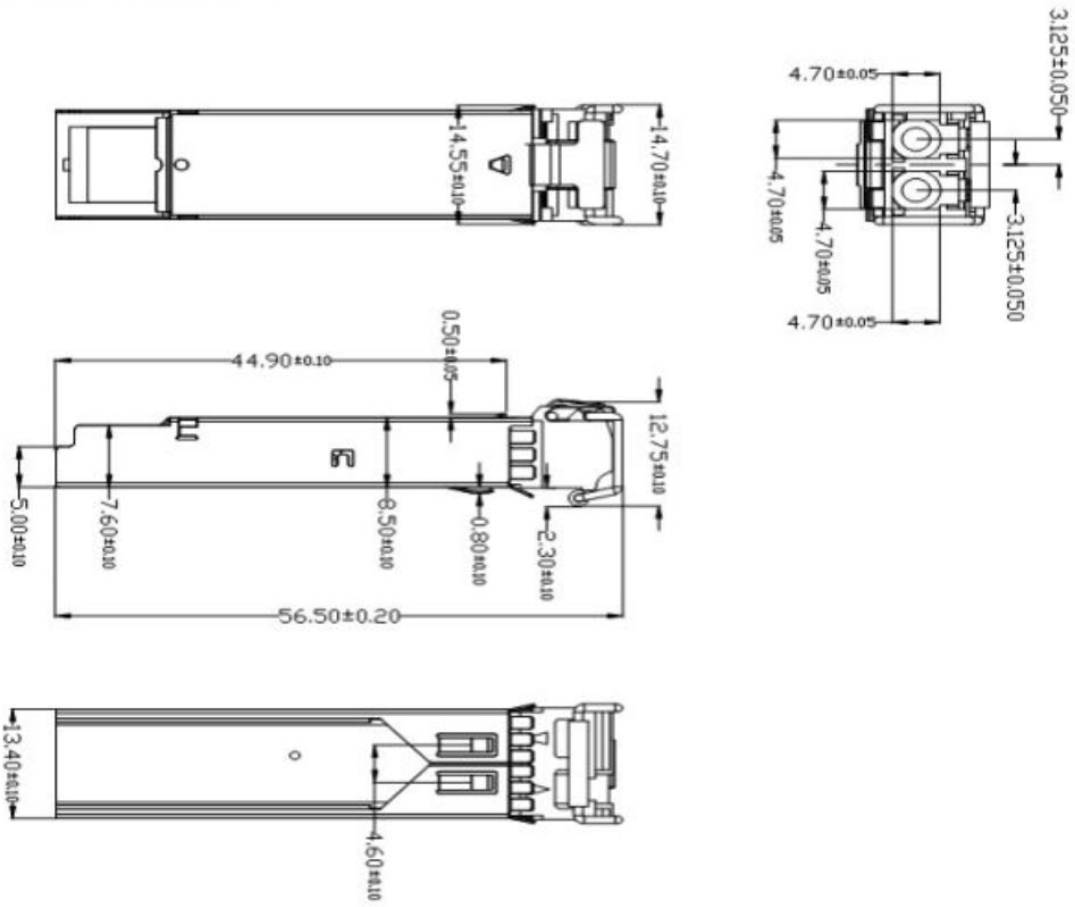
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Diagnostic Specification

Parameter	Range	Unit	Accuracy	Calibration
Temperature	0 to +70	℃	±3℃	Internal/External
	-40 to +85			
Voltage	3.0 to 3.6	V	±3%	Internal/External
Bias Current	0 to 100	mA	±10%	Internal/External
TX Power	-11 to -2	dBm	±3dB	Internal/External
RX Power	-23 to -3	dBm	±3dB	Internal/External

Mechanical Dimensions



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