EX-9543G-SFP

The EX-9543G-SFP Small Form Factor Pluggable (SFP) transceiver module is specifically designed for the high performance integrated duplex data link over single-mode or multi-mode optical fiber. The transceiver module is compliant with the SFP Multisource Agreement (MSA). With the hot pluggability, the SFP module offers an easy way to be installed into SFP MSA compliant ports at any time without the interruption of the host equipments operating on line. The EX-9543G-SFP transceiver using a long wavelength (1310nm) FP laser diode enable data transmission upto 10km on a single-mode (9/125µm) optical fiber

Features:

- SFP Multi-Source Agreement compliant
- 1.0625Gbps Fibre Channel FC-PI 100-SM-LC-L compliant
- 1.25Gbps IEEE 802.3 1000BASE-LX compliant
- Serial ID functionality support
- Single +3.3V Power Supply
- LC duplex receptacle
- Class 1 laser safety standard IEC 825 compliant
- Low power dissipation

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Application:

- 1xFibre Channel
- Gigabit Ethernet
- High speed I/O for file server
- Mass storage system I/O
- Host adapter I/O
- Bus extension application

Transmitter Electro-Optical Interface

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note
Transmitter Differential Input Voltage	TD +/-	400		2400	mV	
Tx_Fault - High	V_{Fault_H}	2		Vcc	V	
Tx_Fault - Low	V_{Fault_L}	Vee		Vee+0.8	V	
Tx_Disable - High	$V_{Disable\_H}$	2		Vcc	V	
Tx_Disable - Low	$V_{Disable\_L}$	Vee		Vee+0.8	V	
Optical Output Power	P_o	-9.5		-3	dBm	1
Optical Extinction Ratio	E_R	9			dB	
Center Wavelength	λ_C	1285	1310	1343	nm	
Spectral Width (RMS)	$\Delta\lambda$			2.8	nm	
Optical Rise / Fall Time	t_r / t_f			260	ps	2
Relative Intensity Noise	RIN			-120	dB/Hz	
Total Contributed Jitter	TJ			227	ps	

Notes:

1. Coupling into a 9/125μm single-mode fiber.
2. 20% to 80% value

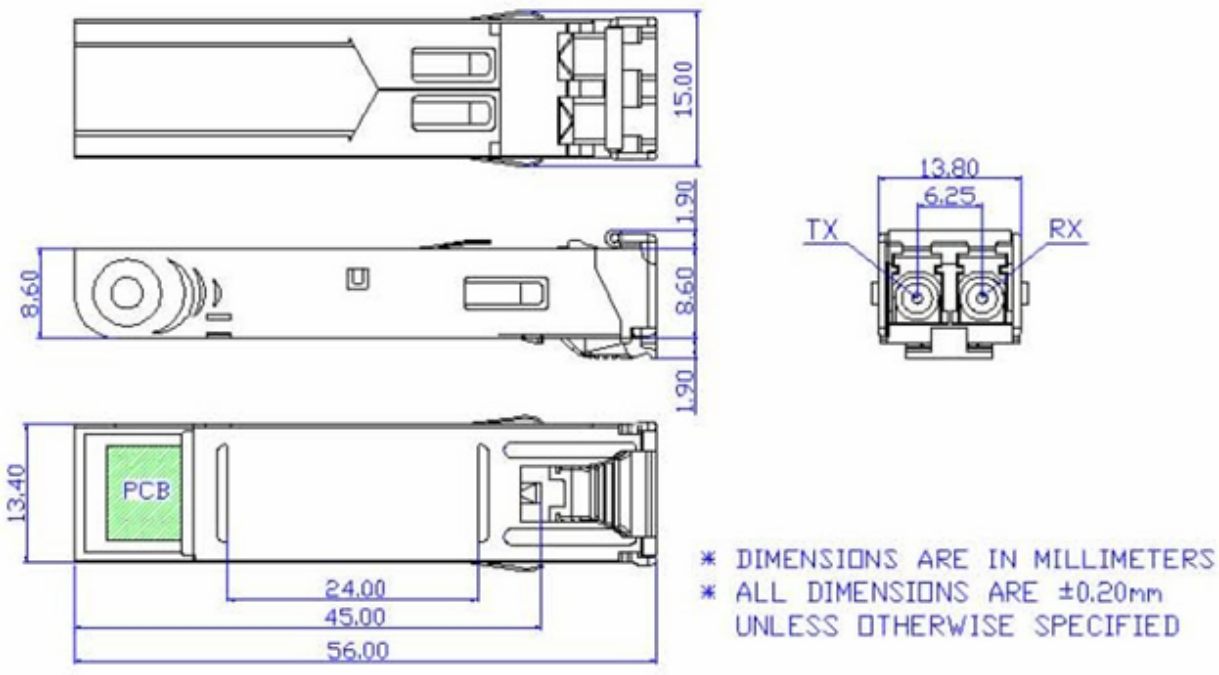
Receiver Electro-Optical Interface

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note
Receiver Differential Output Voltage	RD +/-	400		2000	mV	
Receiver Overload	$P_{IN}MAX$	-3				1
Receiver Sensitivity	$P_{IN}MIN$			-20	dBm	1
Operating Center Wavelength	λ_C	1270		1355	nm	
Return Loss	RL	12			dB	
Receiver Loss of Signal - TTL Low	P_{RX_LOSD}			-20	dBm	
Receiver Loss of Signal - TTL High	P_{RX_LOSA}	-35			dBm	
Receiver Loss of Signal - Hysteresis	P_{RX_LOSH}	0.5			dB	

Notes:

1. With BER better than or equal to 1×10^{-12}, measured in the center of the eye opening with 2^7 -1 PRBS

Mechanical Dimensions (Units in mm)



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Application: