ORing

SFP100B5-MM / SFP100B5-MM-I

100Mbps SFP optical Transceiver, Multi-mode BIDI / 2KM, TX1550nm / RX1310nm

Highlights

- > Compliant with Fast Ethernet Standard
- Compliant with IEEE802.3ah 100Base-BX
- Differential LVPECL inputs and outputs
- TTL signal detect indicator
- Single power supply 3.3VDC





Features

- RoHS compliant
- Compliant with Fast Ethernet standard
- Compliant with IEEE802.3ah 100Base-BX
- Industry standard small form pluggable (SFP) package
- Simplex LC connector

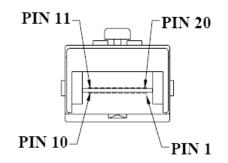
- Differential LVPECL inputs and outputs
- Single power supply 3.3V
- TTL signal detect indicator
- Hot Pluggable
- Class 1 laser product complies with EN 60825-1

Application

- Distributed multi-processing
- Switch to switch interface
- High speed I/O for file server

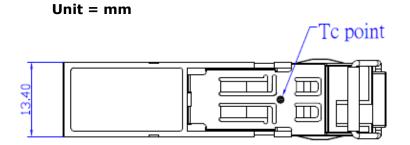
- Bus extension application
- Channel extender, data storage

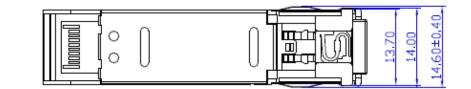
Pin-Assignment

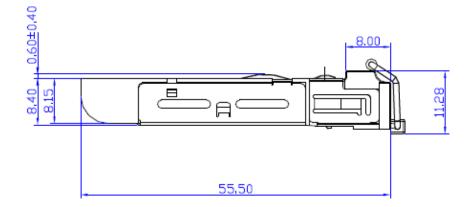


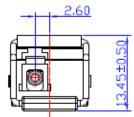
Pin	Signal Name	Description
1	T _{GND}	Transmit Ground
2	TX_FAULT	Transmit Fault
3	TX_DISABLE	Transmit Disable
4	MOD_DEF (2)	SDA Serial Data Signal
5	MOD_DEF (1)	SCL Serial Clock Signal
6	MOD_DEF (0)	TTL Low
7	RATE SELECT	Open Circuit
8	RX_LOS	Receiver Loss of Signal, TTL High, open collector
9	R _{GND}	Receiver Ground
10	R _{GND}	Receiver Ground
11	R _{GND}	Receiver Ground
12	RX-	Receiver Data Bar, Differential PECL, ac coupled
13	RX+	Receiver Data, Differential PECL, ac coupled
14	R _{GND}	Receiver Ground
15	V _{CCR}	Receiver Power Supply
16	V _{CCT}	Tranmitter Power Supply
17	T _{GND}	Transmit Ground
18	TX+	Transmit Data, Differential PCEL, ac coupled
19	TX-	Transmit Data Bar, Differential PCEL, ac coupled
20	T _{GND}	Transmit Ground

Dimension









Specifications

Parameter	Symbo	I	Min	Max		Units	
Storage Temperature	Ts		-40	85		°C	
Supply Voltage	Vcc		-0.5	4.0		V	
Input Voltage	Vin		-0.5	Vcc		V	
Output Current	Io		-	50		mA	
Operating Current	Iop		-	400		mA	
RECOMMENDED OPER/	ATING CONDITIO	NS :					
Parameter	Symbo	I	Min	Max		Units	
Case Operating	Tc		SFP100B5-MM = 0	SFP100B5-MM	= 70	°C	
Temperature	IC.		SFP100B5-MM-I = -40	SFP100B5-MM-	·I = 85		
Supply Voltage	Vcc		3.1	3.5		V	
Supply Current	Itx + Ir	х	-	200		mA	
TRANSMITTER ELECTR	RO-OPTICAL CHAR	RACTERISTIC	S : Vcc = 3.1V to 3.5V, Tc=0	°C to 70°C (-40°C to	85°C)		
Parameter	Symbol	Mir	Тур.	Max	Units	Note	
Output Optical							
Power 9/125,							
62.5/125 μm	Ролт	-10	-	0	dBm	Average	
fiber							
Extinction Ratio	ER	8.2	-	-	dB		
Center	1-	1480	1520	1590			
Wavelength	λς	1460	1520	1580	nm		
Spectral Width	Δλ	-	_	7	nm		
(RMS)				,			
Rise / Fall Time,	Tr,f	-	1	2	ns		
(10-90%)	,-						
Max. P _{out}							
TX-DISABLE	P _{OFF}	-	-	-45	dBm		
Asserted Output Eye		Compliant	vith Telcordia GR-253-CORE Is	scup 2 and ITU T recom	mondation C 057		
Differential Input		Compliant					
Voltage	VDIFF	0.4	-	2.0	V		
-	BTICAL CHARACT		cc = 3.1V to 3.5V, Tc=0°C to	70°C (-40°C to 85°C			
Parameter	Symbol	Mir	Тур.	Max	Units	Note	
Optical Input	Pin	0	-	-	dBm	$BER < 10^{-10}$	
Power-maximum		-					
Optical Input Power-minimum	D			20	40	$BER < 10^{-10}$	
(Sensitivity)	P _{IN}	-	-	-28	dBm	BEK < 10 10	
Operating Center							
Wavelength	λc	1260	-	1360	nm		
Optical Isolation	ISO	-	-	-40	dB	λ=1480~1600 r	
Loss of Signal-Asserted	PA	-	-	-28	dBm		
Loss of							
Signal-Deasserted	PD	-45	-	-	dBm		
Differential Output	V	0.5	-	1.6	v		
Voltage	V _{DIFF}	0.5	-	1.0	v		
Data Output Rise, Fall	Tr , <i>f</i>	-	1	2	ns		
Time (10-90%)			-	-			
Receiver Loss of Signal	RX_LOSL	0	-	0.5	v		
Output Voltage-Low Receiver Loss of Signal							
Localition Local of Cignal				1	1		

Ordering Information

SFP100B5-MM-A

Code Definition	Additional Port Type	ort Type				
Ontion	-I: Industrial extended model for -40 ~ 85°C					
Option	* Regular model : 0 ~ 70°C					
	Model Name	Description	Operating Temperature			
Available Model	Model Name SFP100B5-MM	Description 100Mbps SFP optical Transceiver, Multi-mode BIDI / 2KM, TX1550nm / RX1310nm,	Operating Temperature 0 ~ 70°C			

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