



1x9 155M Multimode Transceiver

Features	Applications
High Quality 1310nm FP Fully Compliant with ITU-T G.957, G.958 PECL Logic Interface Compliant with Telcordia GR-468-CORE Single +5.0V Power Supply	Fast Ethernet SONET/SDH System ATM

Specifications

Electrical and Optical Characteristics(Condition: $T_a=T_{op}$)

Parameter	Symbol	Min.	Typical	Max.	Unit
Data Rate	B	--	155	--	Mb/s
Center Wavelength	λ_c	1270	1310	1360	nm
Output Spectral Width	$\Delta \lambda$	--	--	0.85	nm
Output Optical Power*	P_o	-19	--	-10	dBm
Extinction Ratio	E.R.	10	--	--	dB
Operating Current	I_{cc}	--	60	80	mA
Operating Voltage	V_{cc}	+4.75	--	+5.25	V
Input Voltage-Low	V_{IL}	-1.810	--	-1.475	V
Input Voltage-High	V_{IH}	-1.165	--	-0.880	V
Rising Time	T_r	--	1	3.0	ns
Falling Time	T_f	--	1	3.0	ns
Operating Wavelength	λ	1100	1310	1600	nm
Receiver Sensitivity	P_{min}	--	--	-32	dBm
Maximum Optical Power	P_{max}	-3	--	--	dBm
Operating Current	I_{cc}	--	70	100	mA
Supply Voltage	V_{cc}	+4.75	--	+5.25	V
LOS Output-Low	V_{IL}	-1.810	--	-1.475	V
LOS Output -High	V_{IH}	-1.165	--	-0.880	V
LOS Asserted (H-L)	PD	--	--	-33	dBm
LOS Deasserted (L-H)	PA	-45	--	--	dBm

*Measure the average power coupled into 62.5/125um, 0.275NA graded index Multi-Mode fiber.





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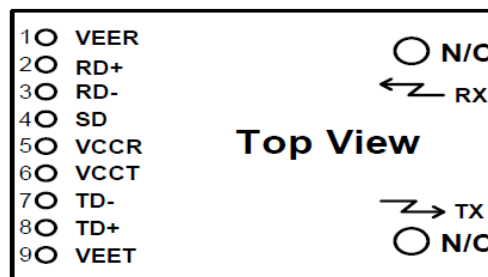
Absolute Maximum Ratings(TC=25°C)

Parameter	Symbol	Min.	Max.	Unit
Storage Temperature	T _{ST}	-40	+85	C
Supply Voltage	V _{CC}	0	+6	V
Input Voltage	V _{IN}	0	V _{CC}	V
Soldering Temperature & Time	--	--	240/10	C /S

Recommended Operating Environment

Parameter	Symbol	Min.	Typical	Max.	Unit
Supply Voltage	V _{CC}	+4.75	+5.0	+5.25	V
Operating Temperature	T _{OP} (Commercial grade)	0	--	+70	C
	T _{OP} (Industrial grade)	-40	--	+85	C

Pin Description



Pin	Name	Level	Description
1	VEER		Negative power of receiver section, normally grounded
2	RD+	PECL	Receiver Data Output
3	RD-	PECL	Inverted Receiver Data Output
4	SD	PECL	Optical alarm of receiver section,High level when normal, low level when no light
5	VCCR		Positive power of receiver section, normally +5.0V
6	VCCT		Positive power of transmitter section, normally +5.0V
7	TD-	PECL	Inverted Transmitter Data input
8	TD+	PECL	Transmitter Data input
9	VEET		Negative power of transmitter section, normally grounded

Ordering Information

TRAN	Packaging	Data Rate	Wave length	Connector	Operation Temperature	Operation Voltage	SD Interface
TRAN	1x9 SFP	155M 1.25G	1310 850	SC/PC ST/PC	1=0 ~ +70 C 2=-4 ~ +85 C	5= +5V 3= +3.3V	P=PECL T=TTL