

TRR-1B43-000

125 MHz Connectorized InGaAs PIN plus AGC Pre-amplifier

FEATURES:

- Industry standard connector of plastic ST*-type receptacle.
- Pre-aligned for multi-mode fibers.
- Solution of 100/155 Mbps applications.



ELECTRO-OPTICAL CHARACTERISTICS:

PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Power Supply	V_{CC}	4.5	5	5.5	V	
Supply Current	I_{CC}			40	mA	no loads
DC Output Voltage	V_{ODC}	1.5	2.5	3.5	V	
Differential Output Voltage	V_d			1.2	V	$\lambda = 1300 \text{ nm}$, 0 dBm
Data out Rise Time (10 - 90%)	t_r			4.5	ns	$\lambda = 1300 \text{ nm}$, $P_i = 10 \mu\text{W}$
Data out Fall Time (10 - 90%)	t_f			4.5	ns	$\lambda = 1300 \text{ nm}$, $P_i = 10 \mu\text{W}$
Output Resistance	R_{out}		50		Ohm	
Bandwidth	BW	115			MHz	$\lambda = 1300 \text{ nm}$, $P_i = 10 \mu\text{W}$
Saturation Power	P_{Sat}	-3			dBm	$\lambda = 1300 \text{ nm}$
Gain @ 10Mbps Differential	G	0.18		220	V/mW	$\lambda = 1300 \text{ nm}$
Sensitivity				-31	dBm	$\lambda = 1300 \text{ nm}$, 155 Mbps, BER 10^{-10}

ABSOLUTE MAXIMUM RATINGS:

PARAMETERS	MIN	MAX	UNIT	CONDITIONS
Storage Temperature	-40	100	°C	
Operating Temperature	-20	85	°C	
Lead Solder Temperature		260	°C	10 seconds

*ST is a registered trademark of AT&T.

OUTLINE DIMENSIONS:

- Unit: mm

