

TRR-8F43-221

LC Connectorized GaAs PIN plus AGC Pre-amplifier

FEATURES:

- Pre-aligned LC-type receptacle for optical fiber communication.
- Suitable for short wavelength 100/155Mbps applications.
- Supports 3.3V and 5.0V applications.



ELECTRO-OPTICAL CHARACTERISTICS: (Typical values are at +3.3V@ 25°C)

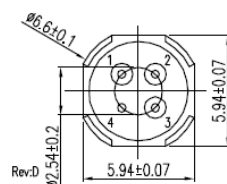
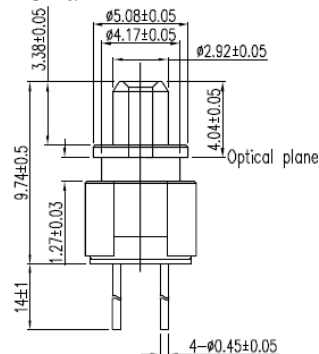
PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Power Supply	V_{CC}	3.0		5.5	V	
Supply Current	I_{CC}			35	mA	no loads
Differential Responsivity	R_d	0.10		80	mV/ μ W	$\lambda=850\text{nm}$, $R_{load}=100\text{ohm}$
Single Ended Responsivity	R_s	0.05		40	mV/ μ W	$\lambda=850\text{nm}$, $R_{load}=50\text{ohm}$
Small-Signal Bandwidth	BW	115			MHz	$\lambda=850\text{nm}$, $P_f=10\text{uW}$
Rise / Fall Time(10 - 90%)	tr/tf			4.5	ns	$\lambda=850\text{nm}$, $P_f=10\text{uW}$
Saturation Power	P_{Sat}	-3			dBm	$\lambda=850\text{nm}$
Single Ended Output Impedance	R_O		50		Ohm	
Sensitivity				-31	dBm	$\lambda=850\text{nm}$, @155.52Mbps, PRBS23, BER=1E-10

ABSOLUTE MAXIMUM RATINGS:

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

OUTLINE DIMENSIONS:

- Unit: mm



Pinout: A-4

1. V_{CC}
2. $\overline{Dout}$
3. Dout
4. Gnd