

TRR-1D43-231

155Mbps SC connectorized InGaAs PIN plus AGC Pre-amplifier

FEATURES:

- Pre-aligned SC-type receptacle for optical fiber communication.
- Optimized for fiber optic application,
- Suitable for long wavelength 100/155 Mbps applications.
- Supports 3.3V and 5.0V applications.



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

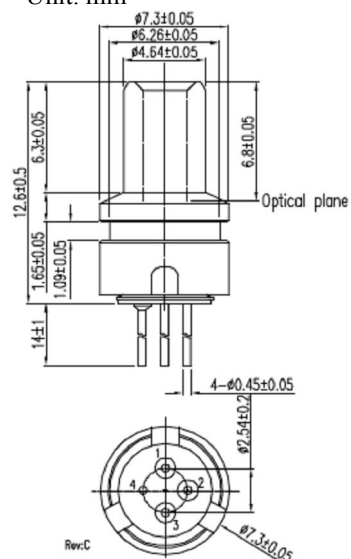
PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Power Supply	V_{CC}	3.0		5.5	V	
Supply Current	I_{CC}			35	mA	no loads
Differential Responsivity	R_d	0.10		120	mV/ μ W	$R_{load} = 100\Omega, \lambda = 1310\text{nm}$
Single Ended Responsivity	R_s	0.05		60	mV/ μ W	$R_{load} = 50\Omega, \lambda = 1310\text{nm}$
Small-Signal Bandwidth	BW	115			MHz	$P = -20\text{dBm}, \lambda = 1310\text{nm}$
Low-Frequency Cut off	LF			30	kHz	
Rise / Fall Time(10 % ~ 90 %)	tr/tf			4.5	ns	$P = -20\text{dBm}, \lambda = 1310\text{nm}$
Saturation Power	P_{Sat}	0			dBm	
Maximum Differential output voltage	$V_{OD(MAX)}$			700	mV	$R_{load} = 100\Omega, P = 0\text{dBm}$
Single Ended Output Impedance	R_O		50		Ω	
Wavelength	λ	1260		1620	nm	
Sensitivity				-36	dBm	$\lambda = 1310\text{nm}, @155.52\text{Mbps}, \text{PRBS23}, \text{BER} = 1\text{E}-10$

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. Vcc
2. $\overline{\text{Dout}}$
3. Dout
4. Gnd