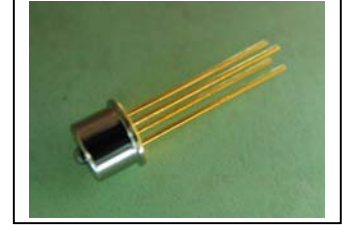


TMC-1C41-751

155Mbps InGaAs PIN plus AGC Pre-amplifier

FEATURES:

- Industry standard TO-46 package with cap lens and tab-less.
- Optimized for fiber optic application.
- Suitable for long wavelength 100/155Mbps application.
- Supports 3.3V and 5.0V applications.



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

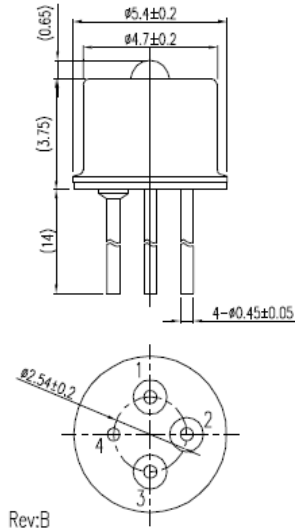
PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Power Supply	V_{CC}	3.0	3.3	5.5	V	
Supply Current	I_{CC}			36	mA	no loads
Differential Responsivity	R_d	24		54	mV/ μ W	$R_{load} = 100\text{ohm}$, $P = -33\text{dBm}$, $\lambda = 1310\text{nm}$
Single Ended Responsivity	R_s	12		27	mV/ μ W	$R_{load} = 50\text{ohm}$, $P = -33\text{dBm}$, $\lambda = 1310\text{nm}$
Small-Signal Bandwidth	BW	115			MHz	
Rise / Fall Time(10 % ~ 90 %)	tr/tf			4.5	ns	$P = -33\text{dBm}$, $\lambda = 1310\text{nm}$
Saturation Power	P_{Sat}	0			dBm	
Single Ended Output Impedance	R_O		50		ohm	
Wavelength	λ	1260		1620	nm	
Sensitivity			-38.5	-37.0	dBm	$\lambda = 1310\text{nm}$, @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. Vcc
2. $\overline{\text{Dout}}$
3. Dout
4. Gnd