

TMC-1C42-428

1.25 Gbps InGaAs PIN plus AGC Pre-amplifier

FEATURES:

- Industry standard TO-46 package with short cap lens.
- Optimized for fiber optic application.
- Suitable for 1.25 Gbps applications.
- Supports 3.3 Volts applications.



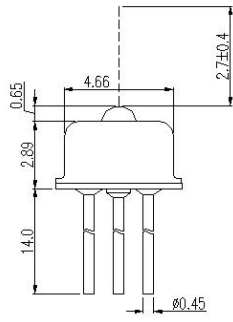
ELECTRO-OPTICAL CHARACTERISTICS:

PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Power Supply	V_{CC}	3.0	3.3	3.6	V	
Supply Current	I_{CC}		42	55	mA	no loads
Differential Responsivity	R_d	30		50	mV/ μ W	$R_{load}=100$ ohm, $P = -26$ dBm, $\lambda = 1310$ nm
Single Ended Responsivity	R_s	15		25	mV/ μ W	$R_{load}=50$ ohm, $P = -26$ dBm, $\lambda = 1310$ nm
Small-Signal Bandwidth	BW	700			MHz	
Low Frequency Cut-off	LF		25		KHz	
Rise / Fall Time(20 % ~ 80 %)	tr/tf			400	ps	$P = -26$ dBm, $\lambda = 1310$ nm
Saturation Power	P_{Sat}	0			dBm	$\lambda=1310$ nm
Single Ended Output Impedance	R_O		50		ohm	
Wavelength	λ	1260		1620	nm	
Sensitivity				-30	dBm	$\lambda=1310$ nm, @ 1.25 Gbps, PRBS7, BER=1E-10

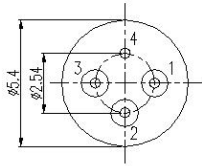
ABSOLUTE MAXIMUM RATINGS:

PARAMETERS	MIN	MAX	UNIT	CONDITIONS
Storage Temperature	-40	100	$^{\circ}$ C	
Operating Temperature	-40	85	$^{\circ}$ C	
Lead Solder Temperature		260	$^{\circ}$ C	10 seconds

OUTLINE DIMENSIONS:



UNIT:mm



Pinout
 1.Vcc
 2.Dout
 3.Dout
 4.Gnd