

TMC-8D41-000

125 MHz GaAs PIN plus AGC Pre-amplifier

FEATURES:

- Industry standard TO-46 package with cap lens.
- Optimized for fiber optic application.
- Suitable for 10/100 Mbps applications.



ELECTRO-OPTICAL CHARACTERISTICS:

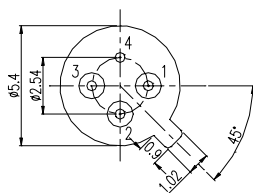
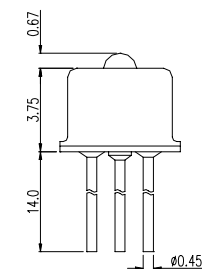
PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Power Supply	V_{CC}	4.5	5	5.5	V	
Supply Current	I_{CC}			40	mA	no loads
DC Output Voltage	V_{ODC}	1.5	2.5	3.5	V	
Differential Output Voltage	V_d			1.2	V	$\lambda = 850 \text{ nm}$, 0 dBm
Data out Rise Time (10 - 90%)	T_r		3.0	4.5	nS	
Data out Fall Time (10 - 90%)	T_f		3.0	4.5	nS	
Output Resistance	R_{out}		50		Ohms	
Bandwidth	BW		125		MHz	
Max. Input Power	P_{Inmax}		0		dBm	$\lambda = 850 \text{ nm}$, 155 Mbps
Gain @ 10Mbps Differential	G	0.09		110	V/mW	$\lambda = 850 \text{ nm}$
Sensitivity			-31		dBm	$\lambda = 850 \text{ nm}$, 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

OUTLINE DIMENSIONS:

UNIT:mm



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