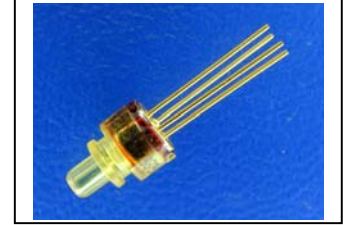


TRR-1F43-100

155Mbps LC Connectorized InGaAs PIN plus AGC Pre-amplifier

FEATURES:

- Pre-aligned LC-type receptacle for optical fiber communication.
- Design for Small Form Factor transceivers.
- Suitable for long wavelength 100/155Mbps applications.
- Single power supply +3.3V.



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

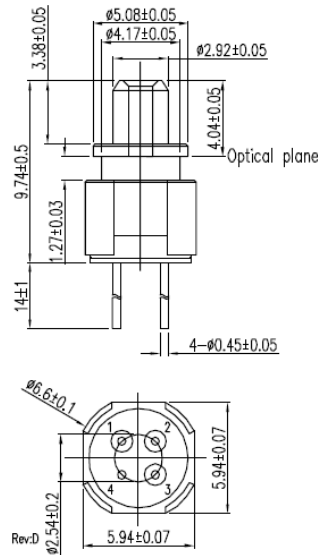
PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Power Supply	V_{CC}	3.0	3.3	3.6	V	
Supply Current	I_{CC}			25	mA	no loads
DC Output Voltage	V_{ODC}		1.5		V	
Differential Output Voltage	V_d			1	V	$\lambda = 1300 \text{ nm}$, 0dBm
Data out Rise Time (10 - 90%)	t_r			4.5	ns	$\lambda = 1300 \text{ nm}$, $P_f = 10\mu\text{W}$
Data out Fall Time (10 - 90%)	t_f			4.5	ns	$\lambda = 1300 \text{ nm}$, $P_f = 10\mu\text{W}$
Output Resistance	R_{out}		50		ohm	
Bandwidth	BW	115			MHz	$\lambda = 1300 \text{ nm}$, $P_f = 10\mu\text{W}$
Saturation Power	P_{Sat}	-3			dBm	$\lambda = 1300 \text{ nm}$, 155 Mbps
Gain @ 10Mbps Differential	G	0.06		77	mV/ μW	$\lambda = 1300 \text{ nm}$
Sensitivity				-36	dBm	$\lambda = 1300 \text{ nm}$, 155 Mbps, BER 10^{-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