

# TRF-8F57-701

## 25Gbps LC Connectorized GaAs PIN plus Pre-amplifier with Flex

### FEATURES:

- LC-type optical sub-module with flexible circuit attached.
- Design for Small Form Pluggable transceivers.
- Supports up to 25.78125Gbps application.
- Photocurrent monitoring available.
- Single power supply +3.3V.



### ELECTRO-OPTICAL CHARACTERISTICS: (T<sub>A</sub> = 25°C)

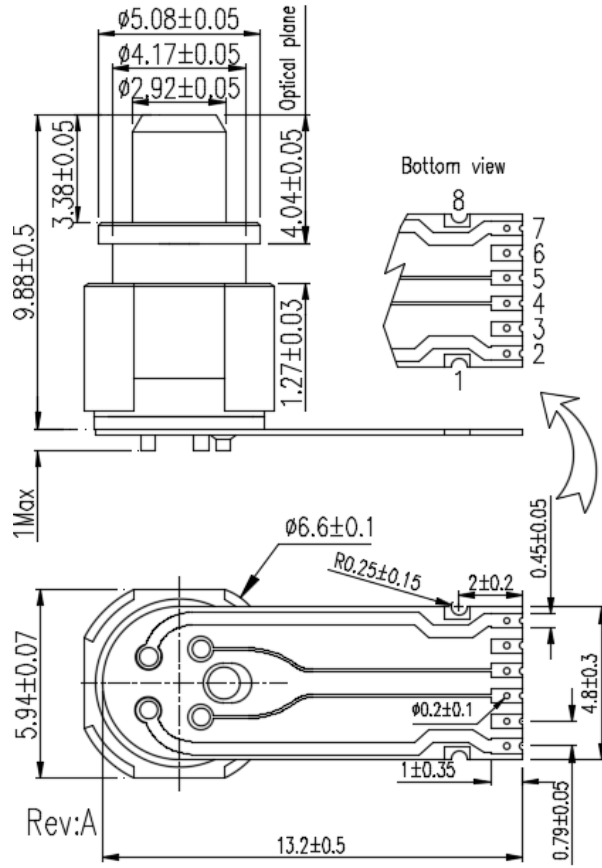
PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Power Supply	V <sub>CC</sub>	3.0	3.3	3.5	V	
Supply Current	I <sub>CC</sub>		29	37	mA	No loads
Small-Signal Bandwidth	BW		17		GHz	P = -10dBm
Low-Frequency Cut off	LF		5	100	kHz	
Saturation Power	P <sub>Sat</sub>	2			dBm	λ=850nm,@25.78125Gbps PRBS 31, ER=4.5dB,BER=5E-5
Single Ended Output Impedance	R <sub>O</sub>		50		ohm	
Wavelength	λ	770		860	nm	
Sensitivity				-14.5	dBm	λ=850nm,@25.78125Gbps PRBS 31, ER=4.5dB,BER=5E-5

### 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
Flex Attach Temperature		370	°C	10 seconds

**OUTLINE DIMENSIONS:**

• Unit: mm



**Pinout:**

Pin no.	Function
1	Gnd
2	Vcc
3	Gnd
4	Dout(+)
5	Dout(-)
6	Gnd
7	Isource
8	Gnd