

TRF-1H67-501

25Gbps LC Connectorized InGaAs PIN plus Pre-amplifier with FPC

FEATURES:

- LC-type optical sub-module with flexible circuit attached.
- Photocurrent monitoring available.
- Single power supply +3.3V.



ELECTRO-OPTICAL CHARACTERISTICS: ($T_A = 25^\circ\text{C}$)

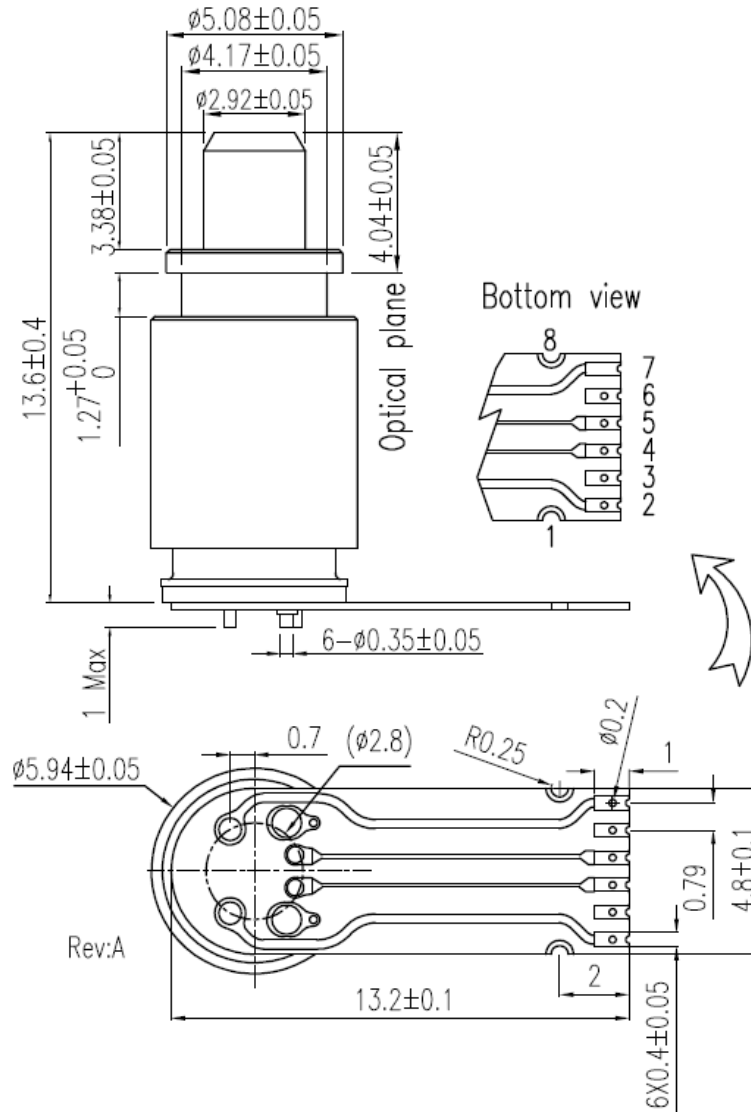
PARAMETERS		SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Power Supply		V_{CC}	3	3.3	3.6	V	
Supply Current		I_{CC}		31	45	mA	No loads
Differential Responsivity		R_d		0.55		mV/ μW	$R_{load} = 100\text{ohm}$, $P = -10\text{dBm}$, $\lambda = 1310\text{nm}$
TIA RSSI	Slope			1		mA/mA	TIA RSSI
	Offset			6	10	nA	
	Accuracy			1	2	%	
Small-Signal Bandwidth		BW		17		GHz	In TIA linear gain region
Low-Frequency Cut off		LF		30		kHz	
Saturation Power		P_{Sat}	2			dBm	$\lambda = 1310\text{nm}$, @25.78125Gbps PRBS31, ER=4.3dB, BER=5E-5
Single Ended Output Impedance		R_O		50		ohm	
Wavelength		λ	1260		1360	nm	
Optical Return Loss		ORL	27			dB	$\lambda = 1310\text{nm}$
Sensitivity					-14.0	dBm	$\lambda = 1310\text{nm}$, @25.78125Gbps PRBS31, ER=4.3dB, BER=5E-5

ABSOLUTE MAXIMUM RATINGS:

PARAMETERS	MIN	MAX	UNIT	TEST CONDITIONS
Storage Temperature	-40	100	$^\circ\text{C}$	
Operating Temperature	-40	85	$^\circ\text{C}$	
Lead Solder Temperature		260	$^\circ\text{C}$	10 seconds
Flex Attach Temperature		370	$^\circ\text{C}$	10 seconds

OUTLINE DIMENSIONS:

- Unit: mm



Pinout:

Pin no.	TRF-1H67-501
	Function
1	Gnd
2	Vcc
3	Gnd
4	Dout(-)
5	Dout(+)
6	Gnd
7	Isource
8	Gnd