

TRR-8F55-701

4.25Gbps LC Connectorized GaAs PIN plus AGC Pre-amplifier

FEATURES:

- Pre-aligned LC-type receptacle for multi-mode fiber communication.
- Design for small Form Factor transceivers.
- Suitable for short wavelength 4.25Gbps application.
- Photocurrent monitoring available.
- Single power supply +3.3V.



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

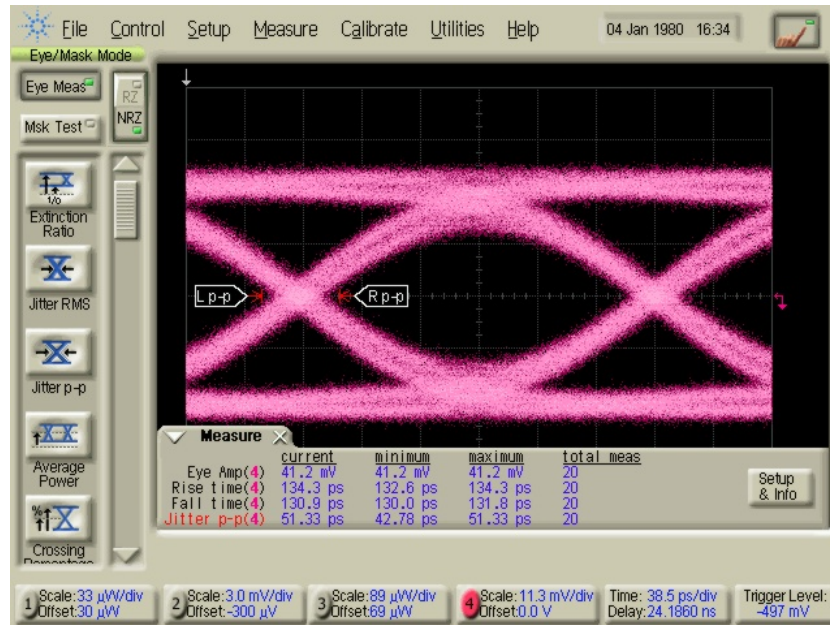
PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Power Supply	V _{CC}	3.0	3.3	3.6	V	
Supply Current	I _{CC}	30	34	42	mA	no loads
Differential Responsivity	R _d		1.2		mV/μW	R _{load} = 100ohm, P = -15dBm, λ=850nm
Single Ended Responsivity	R _s		0.6		mV/μW	R _{load} = 50ohm, P = -15dBm, λ=850nm
Small-Signal Bandwidth	BW		2.5		GHz	P = -15dBm, λ=850nm
Low-Frequency Cut off	LF		15		kHz	
Rise / Fall Time(20 - 80%)	tr/tf		135		ps	P = -15dBm, λ=850nm
Saturation Power	P _{Sat}	0			dBm	
Single Ended Output Impedance	R _O		50		ohm	
Wavelength	λ	770		860	nm	
Sensitivity				-20.5	dBm	λ=850nm, @4.25Gbps, PRBS7, ER=7dB, BER=1E-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

Eye Diagram :

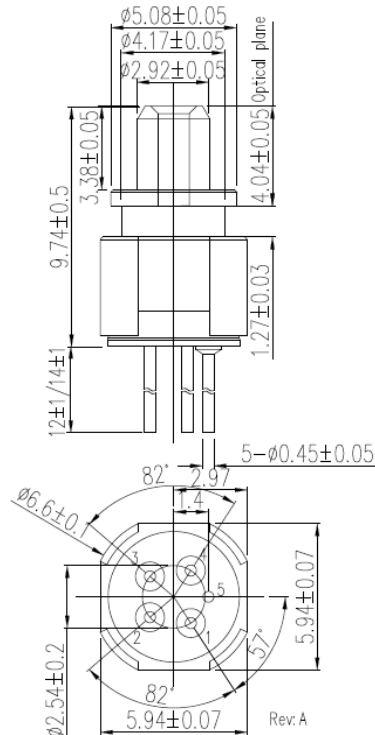
$R_{load} = 50\Omega$, $P = -15\text{dBm}@4.25\text{Gbps}$, 850nm, PRBS 7.



$t_r=134.3\text{ps}$, $t_f=130.9\text{ps}$, Jitter p-p=51.33ps

OUTLINE DIMENSIONS:

• Unit: mm

**Pinout:**

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