

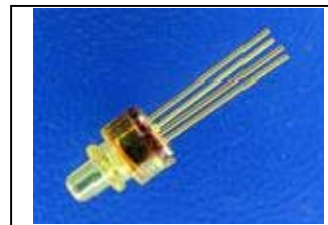


FRR-02P-8L4-701

2.5Gbps LC Connectorized GaAs PIN plus AGC Pre-amplifier

FEATURES:

- Pre-aligned LC-type receptacle for optical fiber communication.
- Designed for Small Form Factor transceivers.
- Suitable for 2.5Gbps application.
- Single power supply +3.3V.



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

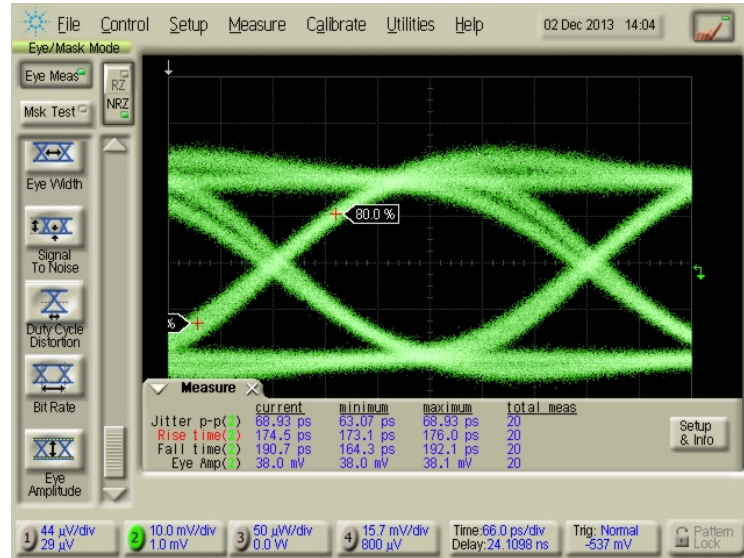
PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Power Supply	V _{CC}	3.0	3.3	3.6	V	
Supply Current	I _{CC}	15	20	24	mA	no loads
Differential Responsivity	R _d		3.6		mV/μW	R _{load} = 100ohm, P = -20dBm, λ=850nm
Single Ended Responsivity	R _s		1.8		mV/μW	R _{load} = 50ohm, P = -20dBm, λ=850nm
Small-Signal Bandwidth	BW		1.5		GHz	P = -20dBm
Low-Frequency Cut off	LF		30		kHz	
Rise / Fall Time(20 % ~ 80 %)	tr/tf			200	ps	P = -20dBm, λ=850nm
Saturation Power	P _{Sat}	0			dBm	
Maximum Differential Output Voltage			140	270	mV p-p	R _{load} = 100ohm, P = -15dBm, λ=850nm
Single Ended Output Impedance	R _O		50		ohm	
Wavelength	λ	770		860	nm	
Sensitivity				-23	dBm	λ=850nm,@2488.32Mbps, PRBS7, ER=10dB, 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 :

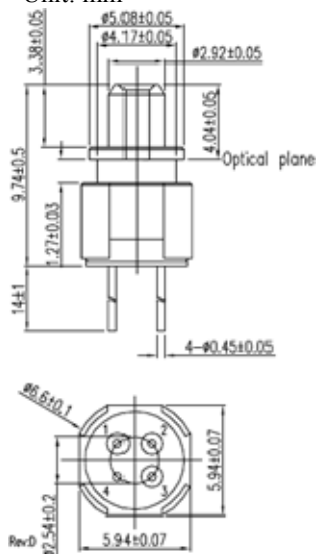
$R_{load} = 50\Omega$, $P = -20\text{dBm}@2488.32\text{Mbps}$, 850nm, PRBS 7.



$t_r = 174.5\text{ps}$, $t_f = 190.7\text{ps}$, Jitter p-p = 68.93ps

OUTLINE DIMENSIONS:

- Unit: mm

**Pinout: C-4**

1. Dout
2. Vcc
3. $\overline{\text{Dout}}$
4. Gnd