E-RR 155 Mbps PIN-TIA RECEPTACLE

Features:
- Optimized for fiber optic application
- Suitable for 100/155 Mbps applications
- Support 3.3V and 5V applications
- SC, LC type Receptacle package

Performance Specifications:

Electro-Optical Specifications (typical value are at Vcc=3.3v)

PARAMETER	SYMBOL	UNIT	MIN.	TYP.	MAX.	TEST CONDITIONS
Detection Range	λ	nm	1100	1310	1650	
Supply Voltage	Vcc	V	3.0		5.5	
Supply Current	Icc	mA			35	No load
Differential Output Voltage	V	mV			700	
Gain@10Mbps Single Ended	Gs	mV/uW	0.09		60	λ=1310nm, Rload=50Ω
Gain@10Mbps Differential	Gd	mV/uW	0.18		120	λ=1310nm, Rload=100Ω
Bandwidth	BW	MHz	115			R=50Ω
Sensitivity	Sens	dBm			-36	λ=1310nm, 155Mbps BER=10^{-10}
Saturation Power	Psat	dBm	-3			λ=1310nm
Output Resistance (Single Ended)	Rout	ohm		50		

Absoluate Maximum Ratings (Tc=25C)

PARAMETER	SYMBOL	UNIT	min	ma	Conditions
Operating Temperature	Ta	°C	-40	85	
Storage Temperature	T_{STG}	°C	-40	100	
Lead Solder Temperature	Tsol			260	10seconds

E-RR 622 Mbps PIN-TIA RECEPTACLE

Features:
- SC, LC type Receptacle package
- Optimized for fiber optic application
- 622 Mbps applications
- Single power supply +3.3V applications

Performance Specifications:

Electro-Optical Specifications (Typical value are at Vcc=3.3v)

PARAMETER	SYMBOL	UNIT	MIN.	TYP.	MAX.	TEST CONDITIONS
Detection Range	λ	nm	1100	1310	1650	
Supply Voltage	Vcc	V	3.0	3.3	3.6	
Supply Current	Icc	mA		20	26	No load
Bandwidth	BW	MHz	435	580		R=50Ω
Sensitivity	Sens	dBm		-32	-29	λ=1310nm, 622 Mbps PRBS23 ER=10 BER=10^{-10}
Saturation Power	Psat	dBm	-3			λ=1310nm
Output Resistance (Single Ended)	Rout	ohm		50		

Absoluate Maximum Ratings (Tc=25C)

PARAMETER	SYMBOL	UNIT	min	max	Conditions
Operating Temperature	Ta	°C	-40	85	
Storage Temperature	T_{STG}	°C	-40	100	
Lead Solder Temperature	Tsol	°C		260	10seconds
Supply Voltage	Vcc	V	0	4	

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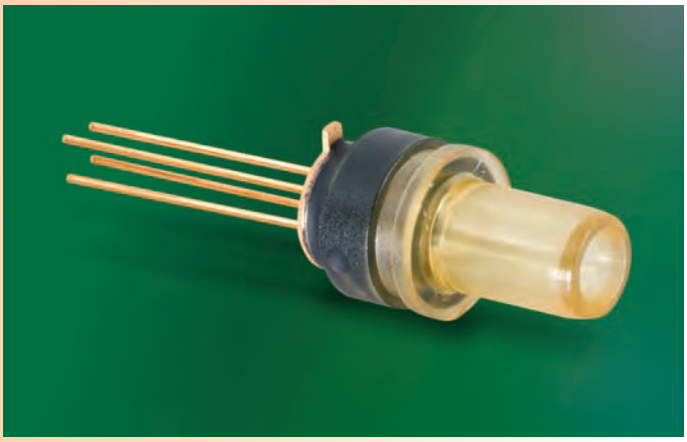
E-RR 1.25 Gbps PIN-TIA PECEPTACLE

Features:
- SC, LC type Receptacle package
- Optimized for fiber optic application.
- 1.25 Gbps applications
- Single power supply +3.3V applications



Performance Specifications:

Electro-Optical Specifications (Typical value are at Vcc=3.3v)

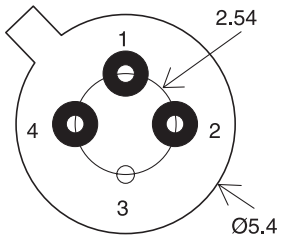
PARAMETER	SYMBOL	UNIT	MIN.	TYP.	MAX.	TEST CONDITIONS
Detection Range	λ	nm	1100	1310	1650	
Supply Voltage	Vcc	V	3.0	3.3	3.6	
Supply Current	Icc	mA	23	30	39	No load
Bandwidth	BW	MHz	700			R=50Ω
Sensitivity	Sens	dBm		-29	-24	λ=1310nm, 1.25 Gbps PRBS7 ER=10 BER=10^{-10}
Saturation Power	Psat	dBm	0			λ=1310nm
Output Resistance (Single Ended)	Rout	ohm		50		

Absoluate Maximum Ratings (Tc=25C)

PARAMETER	SYMBOL	UNIT	min	max	Conditions
Operating Temperature	Ta	°C	-40	85	
Storage Temperature	T_{STG}	°C	-40	100	
Lead Solder Temperature	Tsol			260	10seconds

Outline Dimension:

PIN Position	Function			
B	1	2	3	4
	$Dout^-$	$Dout^+$	GND	Vcc



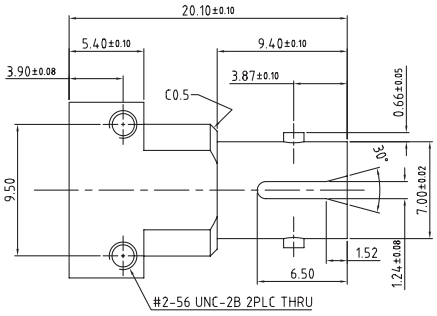
Unit: mm

Bottom View

PIN-TIA RECEPTACLE

Mechanical Dimension:

Unit: mm



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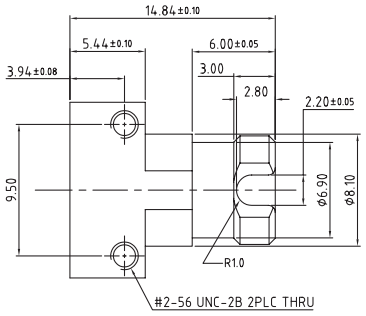

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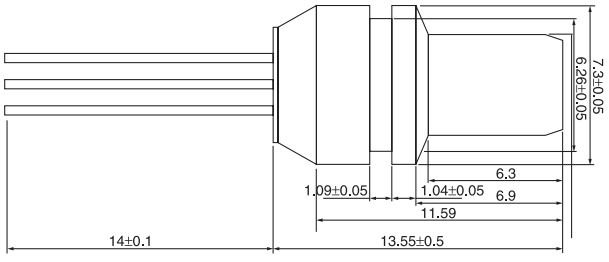

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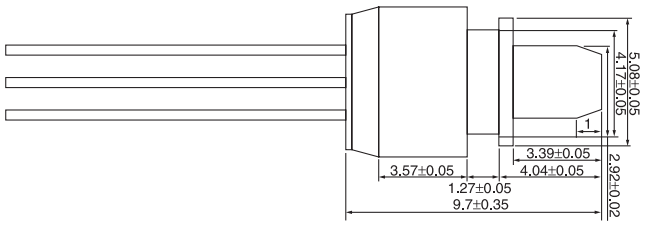

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Ordering Information:

E - RR - □ I □ □□ B □□ - 4A - 0

Datarate
- 3 155 Mbps
- 4 622 Mbps
- 5 1.25 Gbps

PIN Type
- I InGaAs PIN
- G GaAs PIN

Power Supply
- D 5V
- V 3.3V
- O 3.3V/5V

Connector Type
- ST ST
- FC FC
- OS OSA SC
- OL OSA LC

PIN Assignment
- B B Type

Exterior
- M1 Metal Housing
- P1 Plastics Housing

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