

E-PR 155 Mbps PINTIA PIGTAIL

Features:

- Optimized for fiber optic application
- Suitable for 100/155 Mbps applications
- Support 3.3V and 5V applications
- SM/MM fiber pigtailed with optional FC/ST/SC connector



Performance Specifications:

Electro-Optical Specifications (Operating at $V_{cc} = 3.3V$ 9/125um SM fiber)

PARAMETER	SYMBOL	UNIT	MIN.	TYP.	MAX.	TEST CONDITIONS
Detection Range	λ	nm	1100	1310	1650	
Supply Voltage	V_{cc}	V	3.0		5.5	
Supply Current	I_{cc}	mA			35	No load
Differential Output Voltage	V	mV			700	
Gain@10Mbps Single Ended	G_s	mV/uW	0.09		60	$\lambda=1310nm, R_{load}=50\Omega$
Gain@10Mbps Differential	G_d	mV/uW	0.18		120	$\lambda=1310nm, R_{load}=100\Omega$
Bandwidth	BW	MHz	115			$R=50\Omega$
Sensitivity	Sens	dBm			-36	$\lambda=1310nm, 155Mbps$ BER= 10^{-10} PRBS23
Saturation Power	P_{sat}	dBm	-3			$\lambda=1310nm$
Output Resistance (Single Ended)	R_{out}	ohm		50		

Absolute Maximum Ratings ($T_c=25C$)

PARAMETER	SYMBOL	UNIT	min	max	Conditions
Operating Temperature	T_a	$^{\circ}C$	-40	85	
Storage Temperature	T_{STG}	$^{\circ}C$	-40	100	
Lead Solder Temperature	T_{sol}	$^{\circ}C$		260	10seconds

E-PR 622 Mbps PINTIA PIGTAIL

Features:

- SM/MM fiber pigtailed with optional FC/ST/SC connector
- Optimized for fiber optic application
- 622 Mbps applications
- Single power supply +3.3V applications



Performance Specifications:

Electro-Optical Specifications (Operating at Vcc =3.3V 9/125um SM fiber)

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=50 Ω
Sensitivity	Sens	dBm		-32	-29	$\lambda=1310\text{nm}$, 622 Mbps PRBS23 ER=10 BER=10 ⁻¹⁰
Saturation Power	Psat	dBm	0			$\lambda=1310\text{nm}$
Output Resistance (Single Ended)	Rout	ohm		50		

Absolute Maximum Ratings (Tc=25C)

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

E-PR 1.25 Gbps PINTIA PIGTAIL

Features:

- SM/MM fiber pigtailed with optional FC/ST/SC connector
- Optimized for fiber optic application
- 1.25 Gbps applications
- Single power supply +3.3V applications



Performance Specifications:

Electro-Optical Specifications (Operating at Vcc =3.3V 9/125um SM fiber)

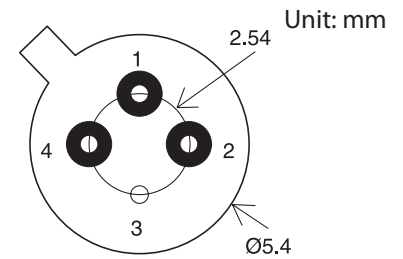
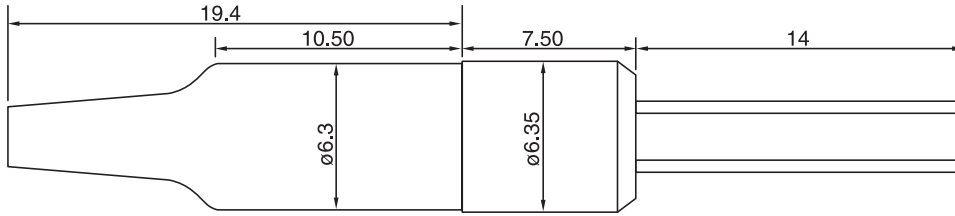
PARAMETER	SYMBOL	UNIT	MIN.	TYP.	MAX.	TEST CONDITIONS
Detection Range	λ	nm	1100	1310	1650	
Supply Voltage	Vcc	V	3.0	3.3	3.6	
Supply Current	Icc	mA	23	30	39	No load
Bandwidth	BW	MHz	700			R=50 Ω
Sensitivity	Sens	dBm		-29	-24	$\lambda=1310\text{nm}$, 1.25 Gbps PRBS7 ER=10 BER=10 ⁻¹⁰
Saturation Power	Psat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

Absolute 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	T _{sol}			260	10seconds

PINTIA PIGTAIL

Outline Dimension:



PIN Position	Function			
B	1	2	3	4
	Dout ⁻	Dout ⁺	GND	Vcc

Bottom View

Ordering Information:

E - PR - X - 4A - 0

Data Rate	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	SC SC	FC FC
	NC No connector		
Fiber Type	A Single-Mode SMF 9/125μm	D Multi-Mode 62.5/125μm	C Multi-Mode 50/125μm
Cable Type	T Simplex, PVC tight buffer cable(0.9mm)	H Simplex, Hytrel tight buffer cable(0.9mm)	X Other, please specify
PIN Assignment	B B Type		
Flange	N without flange	K K Type flange	O O Type flange
Fiber Length	X050 50cm	X100 100cm	X200 200cm
	X300 300cm		