

225Mbps Multimode Optical Receiver

Features

- 2X8 pins plastic case with ST Receptacle
- Wavelength 1310nm multimode fiber application
- Wide operating temperature range -40°C ~85°C
- Single 5V power supply
- Receiver signal detect function



Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit
Data Rate (NRZ)	B	10	225	270	Mb/s
Optical Input Sensitivity (avg.) ^{(1) (2)}		-	-	-32	dBm
Saturation (avg. power)		-3	-	-	dBm
Optical Wavelength	λ	1100	1310	1600	nm
Output Rise Time (10-90%)	t_r	-	1.5	2.5	ns
Output Fall Time (10-90%)	t_f	-	1.5	2.5	ns
Data Output	V_{OL} V_{OH}	$V_{CC}-1.83$ $V_{CC}-1.035$	- -	$V_{CC}-1.62$ $V_{CC}-0.88$	V V
SD Deasserted Power Level (avg.)	P_A	-	-	-32	dBm
SD Asserted Power Level (avg.)	P_D	-45	-	-	dBm
SD Hysteresis	-	1.5	-	-	dB
SD Timing (Increasing light input)	T_{SD+}	-	-	100	μ s
SD Timing (Decreasing light input)	T_{SD-}	-	-	350	μ s
Supply Voltage	V_{CC}	4.75	5	5.25	V
Supply Current	I_{CC}	-	-	180	mA
Power Dissipation		-	-	1000	mW

Notes :

(1) With 0.29 NA, 62.5/125 μ m multimode fiber.

(2) $2^{23}-1$ PRBS, BER= 2.5×10^{-10} .

Absolute Maximum Ratings

Parameter	Min.	Max.	Unit
Operating Temperature	-40	85	°C
Storage Temperature	-40	100	°C
Lead Soldering Limits	-	260/10	°C /sec
Supply Voltage	-0.2	6	V

Ordering Information

R013MM0-XSST5PR1G1

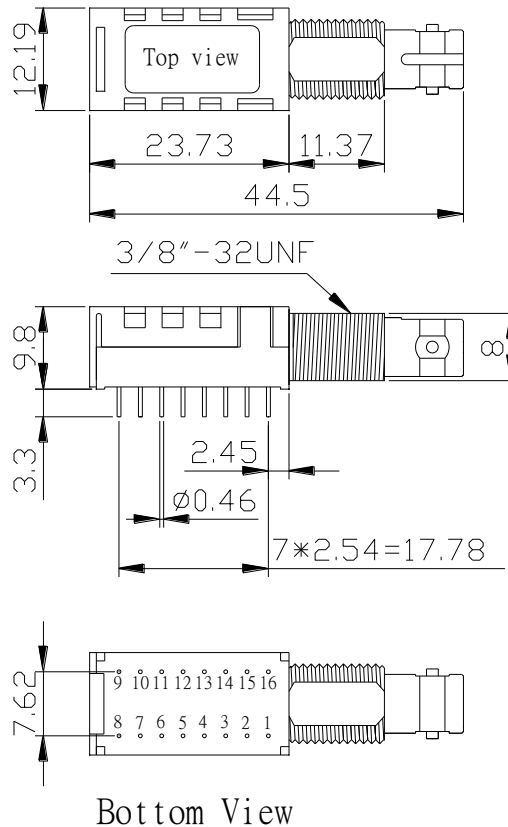
or

R013MM0-XSST5PR1G1B ————— Type B pinout

225Mbps Multimode Optical Receiver

Outline Drawing & Connections

2x8 Pins Plastic Case :



Bottom View

Unit:mm

Regular pinout

Pin No.	Description
1	No Connection
2	DATA -
3	DATA +
4	V _{CC}
5	V _{CC}
6	V _{CC}
7	GND
8	No Connection

Pin No.	Description
16	No Connection
15	SD -
14	SD +
13	GND
12	GND
11	GND
10	No Connection
9	No Connection

225Mbps Multimode Optical Receiver

Type B pinout

Pin No.	Description
1	No Connection
2	No Connection
3	GND
4	GND
5	GND
6	SD +
7	SD -
8	No Connection

Pin No.	Description
16	No Connection
15	GND
14	V _{CC}
13	V _{CC}
12	V _{CC}
11	DATA +
10	DATA -
9	No Connection