

225Mbps Multimode Optical Receiver

Features

- 2X8 pins plastic case with ST Receptacle
- Wavelength 1310nm multimode fiber application
- Wide operating temperature range $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- 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	μs
SD Timing (Decreasing light input)	T_{SD-}	-	-	350	μs
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 μm multimode fiber.

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

Absolute Maximum Ratings

Parameter	Min.	Max.	Unit
Operating Temperature	0	70	$^{\circ}\text{C}$
Storage Temperature	-40	100	$^{\circ}\text{C}$
Lead Soldering Limits	-	240/10	$^{\circ}\text{C} / \text{sec}$
Supply Voltage	-0.2	6	V

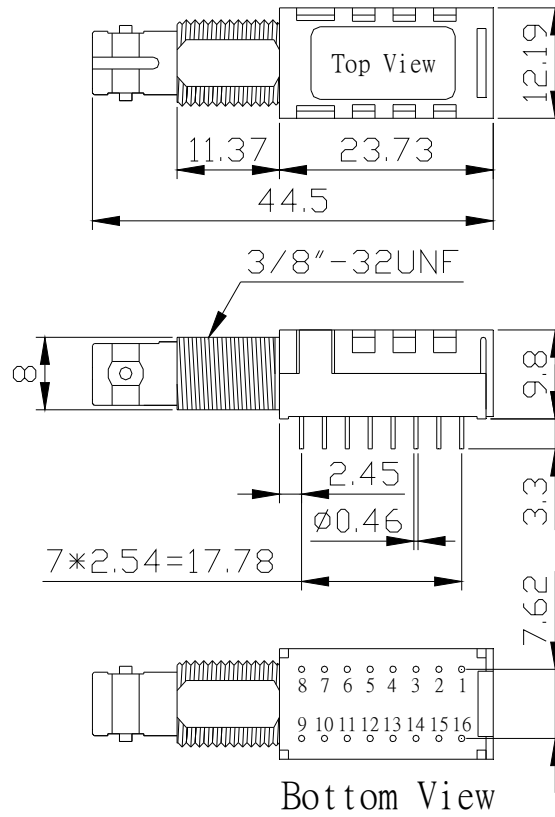
Ordering Information

SNS R013MM0-XSST5PR1G1

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Outline Drawing & Connections

2x8Pins Plastic Case :



Unit:mm

Pin No.	Description	Pin No.	Description
1	No Connection	16	No Connection
2	DATA -	15	SD -
3	DATA +	14	SD +
4	V _{CC}	13	GND
5	V _{CC}	12	GND
6	V _{CC}	11	GND
7	GND	10	No Connection
8	No Connection	9	No Connection