225Mbps Multimode Optical Transmitter

Features

- 2X8 pins metal case with ST Receptacle
- Wavelength 1310nm & 100/140μm multimode fiber application
- Wide operating temperature range –40℃~85℃
- Single 5V power supply
- Output power enable function

Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit
Data Rate (NRZ)	B	10	225	270	Mb/s
Optical Output Power (avg.) (1) (2) (3)	P_o	-15	-	-8	dBm
Extinction Ratio		10	-	-	dB
Optical Wavelength	λ	1270	1310	1360	nm
Spectral Width	Δλ	-	-	180	nm
Data Input	V_{IL} V_{IH}	V_{cc}-1.87 V_{cc} -1.15	- -	V_{cc} -1.45 V_{cc} -0.73	V V
Differential Input Voltage	V_{DIF}	0.3	-	1.1	V
Input Common Mode Range	V_{ICM}	-	-	1.0	V
Output Rise Time (10-90%)	t_r	-	-	1.0	ns
Output Fall Time (10-90%)	t_f	-	-	1.5	ns
TX Enable Input Voltage	V_{EIL} V_{EIH}	0 2	- -	0.6 Vcc	V
Transmit OFF Power		-	-	-50	dBm
Random Jitter (p-p)	RJ	-	-	0.4	ns
Supply Voltage	Vcc	4.75	5	5.25	V
Supply Current	Icc	-	-	180	mA
Power Dissipation		-	-	1000	mW

Notes：

(1) With 0.29 NA, 100/140μm multimode fiber.
(2) Class 1 eye safe per FDA and IEC.
(3) 2^{23} -1 PRBS.
(4) The transmitter output should not be viewed directly.

Absolute Maximum Ratings

Parameter	Min.	Max.	Unit
Operating Temperature	-40	85	°C
Storage Temperature	-40	100	°C
Lead Soldering Limits	-	240/10	°C /sec
Supply Voltage	-0.2	6	V

Ordering Information

SNS T013MM0-0LST5GRXG2

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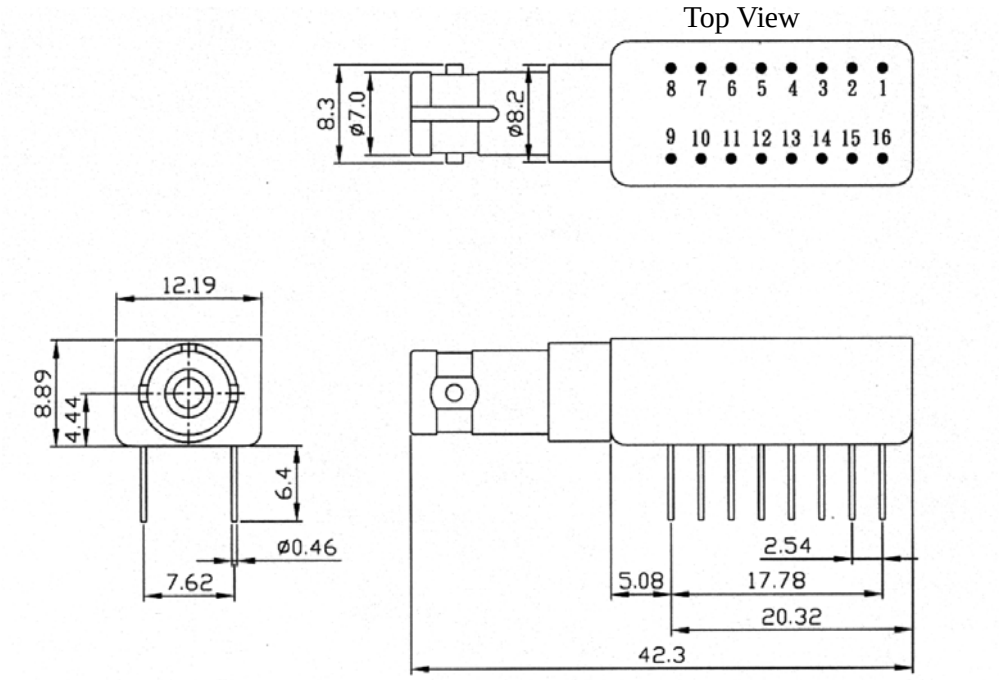
Outline Drawing & Connections



CONNECTIONS

Pin	Function	Pin	Function
1	CASE	9	CASE
2	N/C	10	CASE
3	CASE	11	Vcc
4	CASE	12	Vcc
5	Vee	13	CASE
6	Vee	14	DATA+
7	ENABLED	15	DATA-
8	CASE	16	CASE