225Mbps Multimode Optical Transmitter

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
- 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	-19	-	-	dBm
Extinction Ratio		9	-	-	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, 62.5/125μm 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	-	260/10	°C /sec
Supply Voltage	-0.2	6	V

Ordering Information

T013MM0-1SST5PR0G1

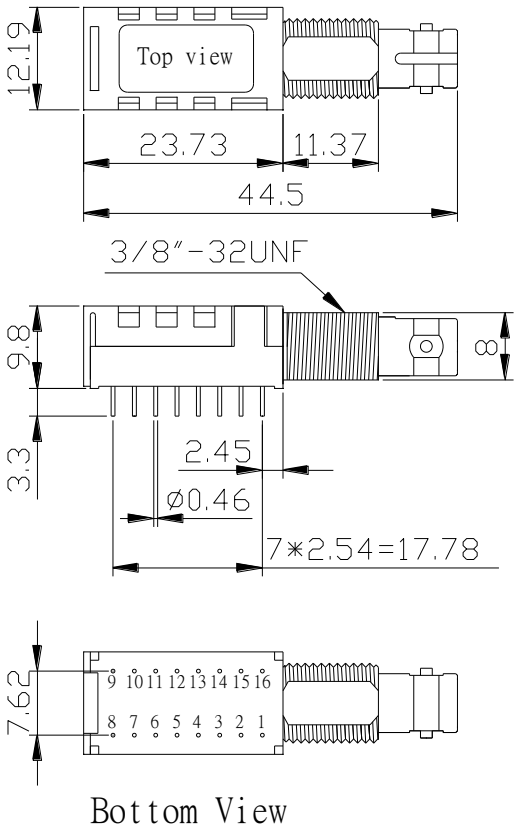
or

T013MM0-1SST5PR0G1B ———— Type B pinout

225Mbps Multimode Optical Transmitter

Outline Drawing & Connections

2x8Pins Plastic Case：



Bottom View

Unit:mm

Regular pinout

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

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

225Mbps Multimode Optical Transmitter

Type B pinout

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

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