220Mbps 850nm Multimode Optical Transmitter

Features

- 2X10 pins metal case with ST Receptacle
- Wavelength 850nm VCSEL for 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	DC	-	220	Mb/s
Optical Output Power (avg.) (1) (2) (3)	P_o	-12	-10	-8	dBm
Extinction Ratio		10	-	-	dB
Optical Wavelength	λ	780	820	880	nm
Spectral Width	Δλ	-	1	-	nm
Data Input	V_{IL} V_{IH}	V_{cc}-1.810 V_{cc} -1.165	- -	V_{cc} -1.475 V_{cc} -0.88	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	-	130	150	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) 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

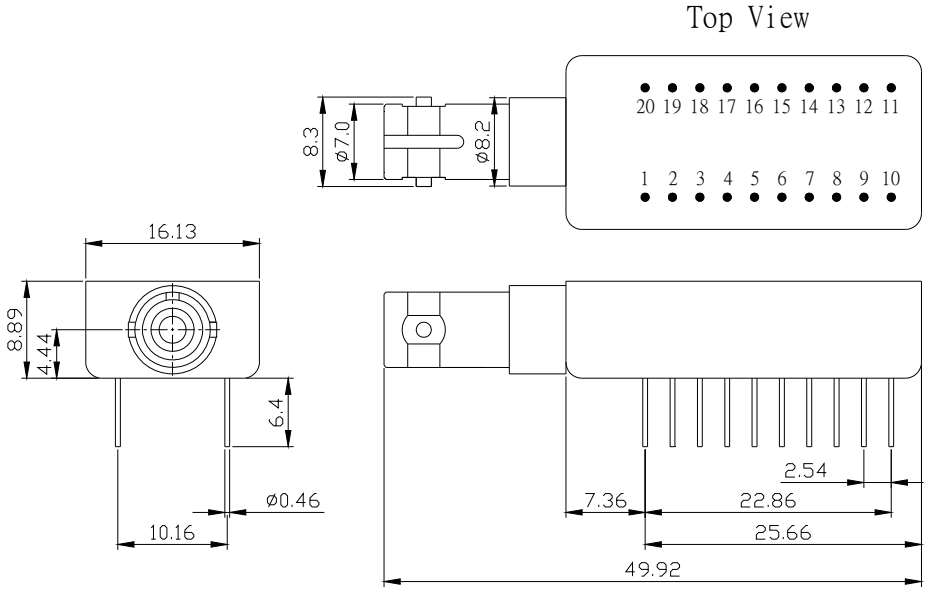
SNS T085MM0-0VST5KRG2

TD-

220Mbps 850nm Multimode Optical Transmitter

2X10 Pins Package

Outline Drawing & Connections



Pin-out Description (2x10 Pins Package)

Pin No.	Description
1	Case
2	No Connection
3	No Connection
4	No Connection
5	Vee (Ground)
6	Vcc (Supply Voltage)
7	No Connection
8	Vcc (Supply Voltage)
9	Vcc (Supply Voltage)
10	No Connection

Pin No.	Description
20	Case
19	No Connection
18	Vcc (Supply Voltage)
17	No Connection
16	Data In
15	Data In (Inverted)
14	Vee (Ground)
13	Case
12	Vcc (Supply Voltage)
11	Case