

Description

The TRM5467 is a lightwave transmitter for OC-3.

Features

- Fabry-Perot laser diode
- High optical output power: +1dBm min.
- Operation at 155.52 Mb/s (Scrambled NRZ) at 1.3 μm wavelength
- Uncooled laser with automatic optical power control for constant output power over temperature range
- ECL10K interface
- Low-power alarm and shutdown



Absolute Maximum Ratings

Item	Symbol	Rated Value	Units
Supply voltage	V	-6.2	V
Operating case temperature	T _{opr}	0 to 65	°C
Storage case temperature	T _{stg}	-20 to 70	°C
Humidity (long-term)	—	55	%
Lead soldering temperature	T _s	260	°C
Lead soldering time	—	10	sec

Optical Characteristics (T_C = 0 to 65°C)

Item	Symbol	Min	Typ	Max	Units	Test Conditions
Average power output	$\overline{P_O}$	1	—	7	dBm	Single-mode fiber
Center wavelength	λ_c	1280	1310	1330	nm	
RMS spectral width	$\Delta\lambda$	—	—	4	nm	
Extinction ratio	—	13	—	—	dB	P _{OH} / P _{OL}
Optical Eye Pattern Mask	—	—	—	—	—	ITU-TSS(CCITT G957)

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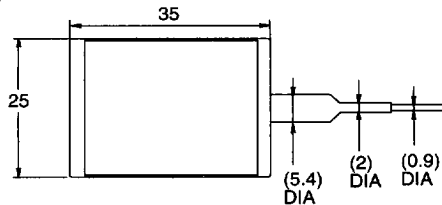
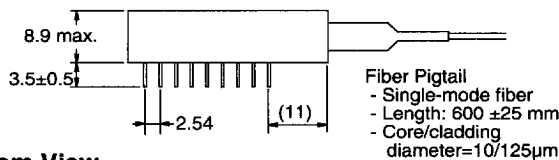
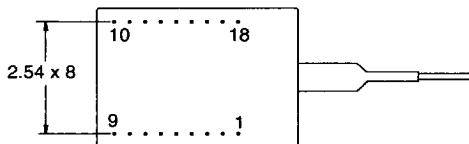
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Electrical Characteristics ($T_C = 0$ to 65°C)

Item	Symbol	Min	Typ	Max	Units	Test Conditions
DC power supply voltage	V	-4.94	-5.2	-5.46	V	
DC power supply current	I	—	—	180	mA	$V_{EE} = -5.2$ V

Outline Drawings and Pin Descriptions**Top View****Side View****Bottom View**

Dimension: mm

Pin	Description
1:	Ground
2:	Ground
3:	Ground
4:	V_{EE}
5:	V_{EE}
6:	Ground
7:	Data In
8:	Clock In
9:	Ground
10:	Ground
11:	Shutdown In
12:	Ground
13:	Alarm Out
14:	Ground
15:	V_{EE}
16:	V_{EE}
17:	V_{EE}
18:	Ground

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