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10G TDM EML TO

Classification:[Laser Product](#)

Key Features of the 10G TDM EML Laser

- **High-Speed Performance:** Supports data rates up to **10Gbit/s**, ideal for high-bandwidth telecom, ethernet, and fiber channel applications.
- **1550nm Wavelength:** The **1550nm TDM Laser** ensures low signal attenuation (0.2dB/km), perfect for long-haul telecom and datacom networks.
- **Reliable Operation at 55°C:** Designed for stable performance at 55°C, ensuring durability in demanding environments.
- **Compact Design:** The TO package offers a space-efficient solution for high-speed optical systems.

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Inquiry

Features

Applications

Parameter

System Certification

Factory

Inquiry

Features

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Applications

Applications of the Telecom Laser

The **10G TDM EML Laser** excels in **high-speed telecom and datacom** environments, including:

- **Telecom Networks:** Powers 10Gbit/s data transmission in 5G and long-haul optical networks.
- **Ethernet Applications:** Supports **10Gbit EML Laser for Ethernet**, enabling fast and reliable network connectivity.
- **Fiber Channel:** Enhances high-speed storage area networks (SANs) with robust signal transmission.
- **Datacom Systems:** Drives efficient data transfer in data centers and enterprise networks.

Why Choose Our 10G TDM EML Laser?

Our **10G TDM EML Laser** delivers unmatched speed, reliability, and efficiency for optical communication. The **1550nm TDM Laser** ensures low signal loss, making it ideal for long-distance applications. Its high-performance design supports **high-speed telecom laser** needs, while the 55°C operation ensures durability. Whether for 5G, ethernet, or fiber channel, our **Telecom Laser** provides a cost-effective and high-quality solution.

Parameter

Absolute Maximum Ratings

Parameters	Symbol	Min	Max	Unit
Storage Temperature	TSTG	-40	85	°C
Operating Case Temperature	TC	-5	80	°C
Reverse Voltage(LD)	Vrl	-	2	V

https://en.whsygd.com/products_detail/10G-TDM-EML-Laser.html

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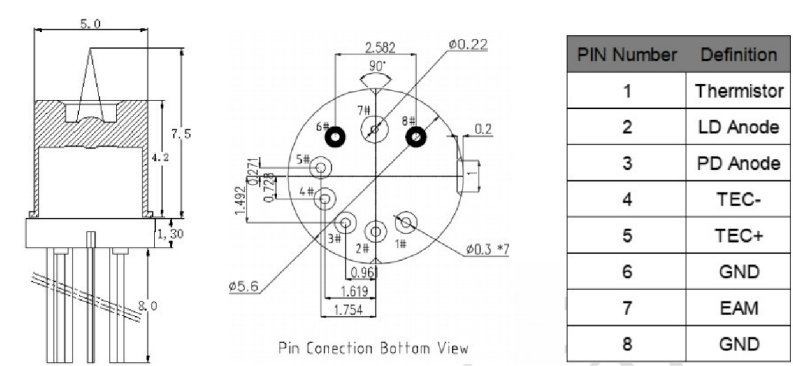


Flex Pad Soldering Temperature	-	-	260	°C
Flex Pad Soldering Duration	-	-	10	S

Electrical/Optical Characteristics (T=25°C)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Threshold current	I _{th}	CW,T _{LD} =55°C	-	-	30	mA
Output Optical power	P _o	CW,T _{LD} =55°C,V _{ea} =0V,I _{op} =80mA	7.7	-	-	mW
Operating Current(LD)	I _{op}	CW,T _{LD} =55°C	-	80	110	mA
DC Extinction Ratio	DC-ER	DC,I _{op} =80mA,V _{ea} =0V~-2V	7	-	-	dB
Operating Voltage	V _f	CW,T _{LD} =55°C,V _{ea} =0V,I _{op} =80mA	-	-	2	V
Series Resistance	R _s	CW, T _{LD} =55°C,V _{ea} =0V,I _{op} =80mA			15	Ω
Monitor Photocurrent	I _m	CW,T _{LD} =55°C,V _{ea} =0V,I _{op} =80mA	50	-	2000	uA
Dark Current(MPD)	I _d	V _r =5V		-	100	nA
Center Wavelength	λ _c	CW,T _{LD} =55°C,V _{ea} =0V,I _{op} =80mA	1530	1550	1570	nm
Side Mode Suppression Ratio	SMSR	CW, T _{LD} =55°C,V _{ea} =0V,I _{op} =80mA	35	-	-	dB
Focus length	F	CW	6.9	7.5	8.1	mm
Thermal Characteristics						
Thermistor Resistance	R _{th}	T _c =25°C	9.9k	10k	10.1k	Ω
B Constant of R _{th}	B	-	3890	3930	3969	K
Thermoelectric Cooler Current	I _{tec}	CW,T _c =-5~80°C,T _{LD} =55°C	-	-	1	A
Thermoelectric Cooler Voltage	V _{tec}	CW,T _c =-5~80°C,T _{LD} =55°C	-	-	1.5	V
Thermoelectric Cooler Power	P _{tec}	CW, T _c =-5~80°C,T _{LD} =55°C	-	-	1.5	W

Outline Drawings & Pin Connection Type



Keyword: 10G TDM EML TO

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