Thermal Control TO Laser

Description

Optune-TTO-1310 is a thermal control TO laser that delivers wavelength controlled by mini-TEC inside of TO at specified wavelength 1310nm over C band. It is designed to perform well beyond the industry standard. Key features of this thermal control TO laser include high wavelength stability. This thermal control laser takes advantage of semiconductor laser chip with built-in TEC inside of TO56

The devices are packaged in a TO56 package with laser welding process providing high efficiency and stable output power and high reliability. The output fiber is a standard SMF-28 silica fiber.

Applications

OTDR

Optical measuring instrumentation

Optical gas and chemical sensor

Features

Center wavelength =1310.1±0.1nm

Output power>5mW

Internal thermoelectric cooler and thermistor

RoHS Compliance

Specification

Absolute Maximum Ratings

Parameter	Symbol	Condition	Min	Max	Unit
Reverse Voltage	**VR**			2	V
Forward Current	**IF**			100	mA
Forward Voltage	**VF**	Iop		1.5	V
Case Temperature	**Tc**	Iop	-10	60	°C
Laser Temperature	**TLaser**	Iop	10	50	°C
Thermoelectric Cooler Voltage	**VTEC**			4.3	V
Thermoelectric Cooler Current	**ITEC**			1.2	A
Storage Temperature	**Tstg**	Unbiase	-40	85	°C
Storage Humidity			5	85	%RH

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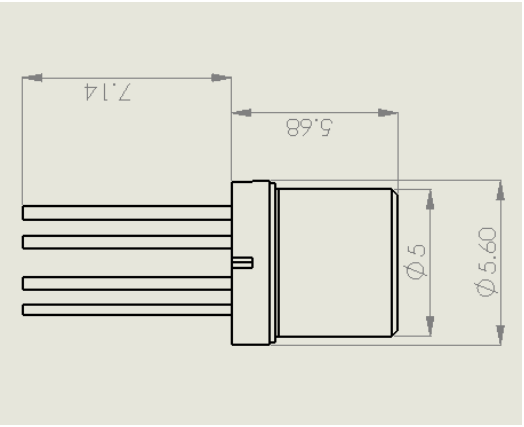
Electro Static Discharge	VESD	Human body mode	500		V
Lead Soldering Temperature				260	°C
Lead Soldering Time				10	sec

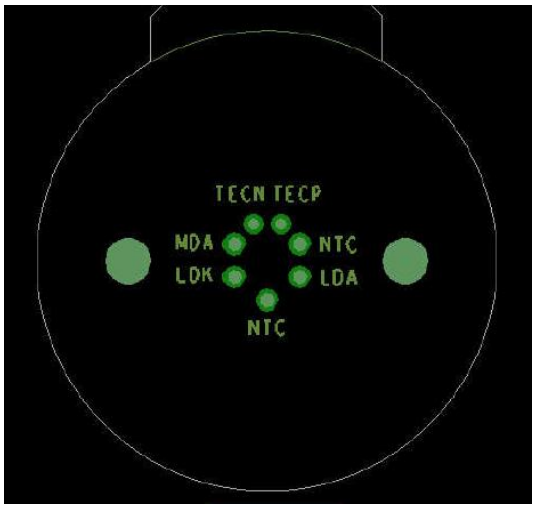
Electro-Optical Characteristics

(TLaser=25°C, unless otherwise noted)

Parameter	Symbol	Condition	Min	Type	Max	Unit
Threshold Current	Ith	CW		6	10	mA
Output power	Po	CW		5		mW
Operating Current	Iop	CW		20		mA
Operating Voltage	Vop	CW		1.3	1.5	V
Peak Wavelength		CW,20mA	1310		1330	nm
Fiber Type		SMF-28 9/125µm				
Optical Connector		FC/APC				
Fiber Length			1	1.5		m
Package Type		TO56				

Dimensions and PIN Assignment





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