

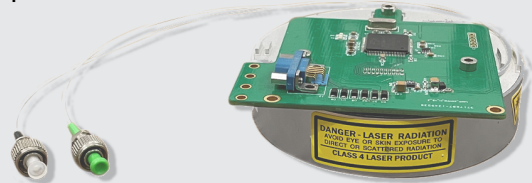
# DTS LASER

## Features :

- Modular package, compact structure, small size
- Wide operating temperature range
- Super low power consumption
- External TTL trigger signal to achieve pulse output

## Applications :

- Lidar
- Distance measurement
- Distributed Temperature Measurement



## NOTE

1. Laser safety: The output of this product is laser radiation visible to the non-human eye, you should bring good goggles before use, when the laser is working, please avoid exposing your eyes or skin directly to the laser.
2. Power use: Ensure that the rated voltage, rated power to use.
3. Electrostatic protection: The light source must take appropriate anti-static measures when transporting, storing and using.
4. Fiber endface: Properly clean the output endface when in use to ensure that it is clean and free of dirt, otherwise it is easy to cause endface burn.
5. Heat dissipation requirements: laser work to ensure good heat dissipation, it is recommended that the thermal conductivity of the surface using high thermal conductivity of the silicone grease or thermal pad for timely heat dissipation, otherwise the laser internal temperature rises, will trigger the over-temperature protection function, shut down the laser output.



# Technical Data

PARAMETERS	Min.	Typical	Max.
Working wavelength	1548nm	1550nm	1552nm
Working mode	Internal/external trigger		
Output peak optical power			3 kW
Pulse width	1 ns	3 ns	10 ns
Repetition frequency	50 kHz	100 kHz	2000 kHz
-3dB spectral width			1nm
Output stability @ 12 h(room temp.)			5%
High temp. power attenuation@60C			10%
Low temp. power attenuation @ -40C			10%
Operating Temperature	-40°C		60%
Storage Temperature	-40°C		70%
Operating Humidity Range	5		90%
Laser Size ( without output )		φ90mm *24.5mm	
Pigtail length		300 mm	
Laser light delay jitter		≤ 0.1ns	
Weight		< 200g	
Average power		<16 w	
Operating voltage		DC 9V ~ 13V	

