

1550nm Nanosecond Pulsed Fiber Laser (DTS)

50W



● Product Description

The 1550nm pulsed laser from Idealphotonics is an efficient ns pulse fiber laser source in the eye-safe wavelength range. Featuring a new ns-level pulse drive circuit, it offers stable pulses with low distortion. The optimized low-noise erbium-doped fiber amplifier (EDFA) provides high peak power and ns-level pulse output. This laser is particularly well-suited for applications such as Distributed Temperature Sensing (DTS), laser ranging, and fiber optic sensing.



● Product features

High Peak Power: Up to 50W、 Adjustable Pulse Width: 1-250ns、 Adjustable Repetition Rate: 1kHz-1MHz、 With internal or external TTL trigger

● Part Number

MP-NS-1550-50-SA

● Application area

DTS、 OTDR、 Distance Measurement、 Laser Processing、 Scientific Research

● Core parameters

Center Wavelength	Pulse Width Range	Repetition Frequency Range
1550nm	1-250ns	1kHz-1MHz

● General Parameters

Parameters

Parameters	Specs
Peak Output Power	50W
Maximum Pump Power	550mw
Pump Power @ Average Power 50mW, 10ns,	200mW



100kHz, 25°C	
Center Wavelength	1550.18nm
Pulse Width Range	1-250ns
Repetition Frequency Range	1KHz-1MHz
Output Fiber Type	SMF-28e
Output Fiber Length	1m
Output Fiber Connector Type	FC/APC
Dimensions	150(L) * 125(W) * 25(H) mm
Power Supply	5-24VDC,2A
Operating Temperature	-25°C-50°C
Operating Humidity	<90%
Warm-Up Time	<30mins