

DTS OPTICAL SOURCE

1. Product Description

DTS optical source was widely used for distribute temperature sensing system, laser distance measure, fiber sensing. The new designed pulse driver circuit could provide nanosecond change, the pulse is stable and no outline distortion; the optimized low noise EDFA could reach high peak, nanosecond laser output. The user could easy to operate and control the module by own designed GUI. The module has its internal pulse generator, and also controlled by external signal. All the module passed the environmental test to make sure the source have long reliability and stability. It is suitable to do system integration.



2. Features

High peak power
 -10~60°C; working temperature
 Pulse width control
 High reliability

3. Applications

DTS Fiber Sensing
 Laser distance measure
 Lab Research
 Fiber sensing system

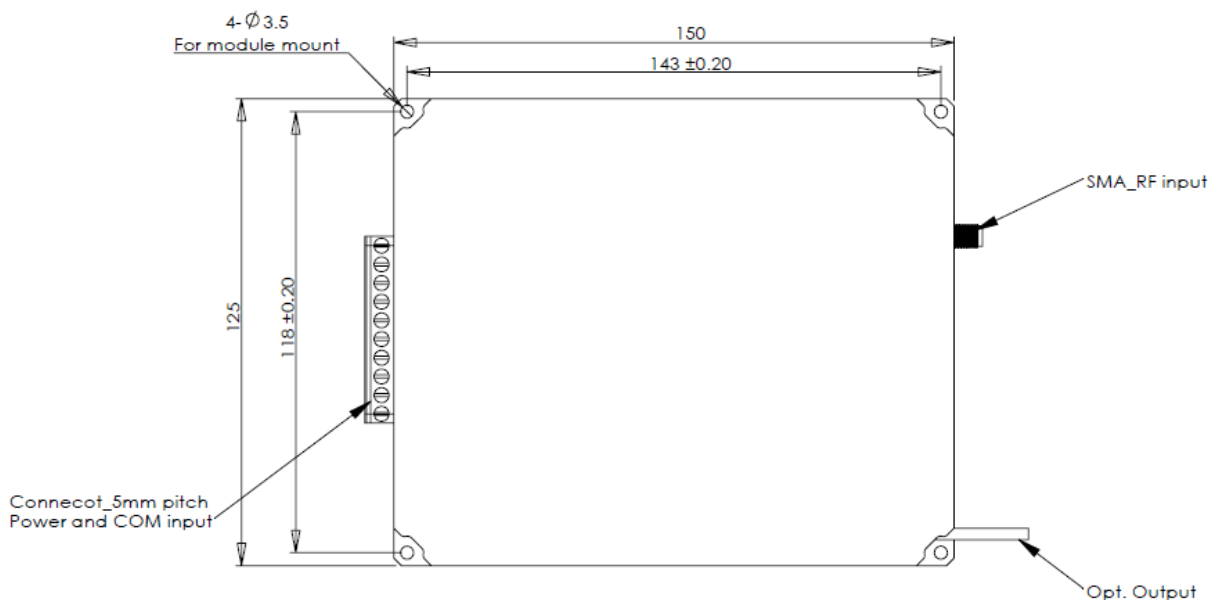
4. Optical property indexes

Parameters	Unit	Min	Typ	Max	Comment
Wavelength	nm	-	1550.12	-	
Optical Power	W	0.1	30	30	
Pulse Width	ns	5	5	1000	
Repeat Frequency	kHz	0.01	10	100	
-3dB optical Spectrum	nm	-	-	0.3	
Output stability	%	-	-	1	
SMSR	dB	50	-	-	
Output Isolation	dB	45	-	-	
Working temperature	°C	-10	-	60	
Storage temperature	°C	-40	-	80	

Humidity	%	5	-	90	
Fiber Bend diameter	mm	30	-	-	
Power		DC +5V GND			
Consumption	W	-	-	15	
Dimension	mm	150*125*19			
Connector	Input	Output			
	SMA	FC/APC			
Fiber	MM 62.5/125 1m 3mm Loose type				

5. Mechanical structure

Mechanical	Parameter	Description	Unit	Comment
Module	Dimension	150x125x19	mm	Optional
	Power	DC +/-5V/GND		Typical
	Fiber connector	FC/APC		Optional



6. Electrical Properties

Mechanical	Parameter	Description	Unit	Comment
Module	Power supply	DC +/-5V/GND		
	Consumption	<10	W	RM