

FWBT515G25-SWSOA-2

1550nm SOA Optical Pulse Modulation Module Pulse Width: 2 ~ 100ns, Input Power: -30~5dBm, Output Power: -5~10dBm, 5V, FC/APC, 0.9MM 0.5M
Module Size: 90x38.5x15mm

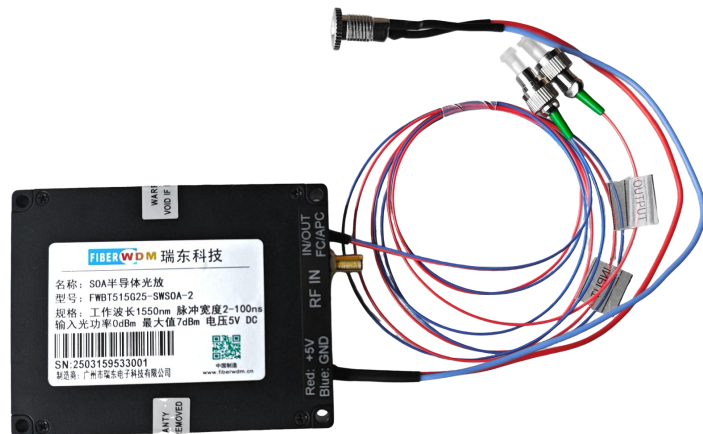
The pulse modulation module developed by FiberWDM. is a narrow-pulse modulation module using a semiconductor electro-optic modulator as the core conversion device. It is externally triggered and modulated through an SMA interface for the input modulation signal. The internal modulation drive circuit modulates the electro-optic switch. The module features fast rise time, high pulse extinction ratio, good stability, and ease of use, making it an ideal alternative to traditional electro-optic and acousto-optic modulators in various fiber-optic sensing applications.

Product Features

- ◆ Pulse width and repetition rate are adjustable
- ◆ Compact structure
- ◆ High extinction ratio

Applications

- ◆ Fiber-optic communication
- ◆ Fiber-optic sensing.
- ◆ LiDAR

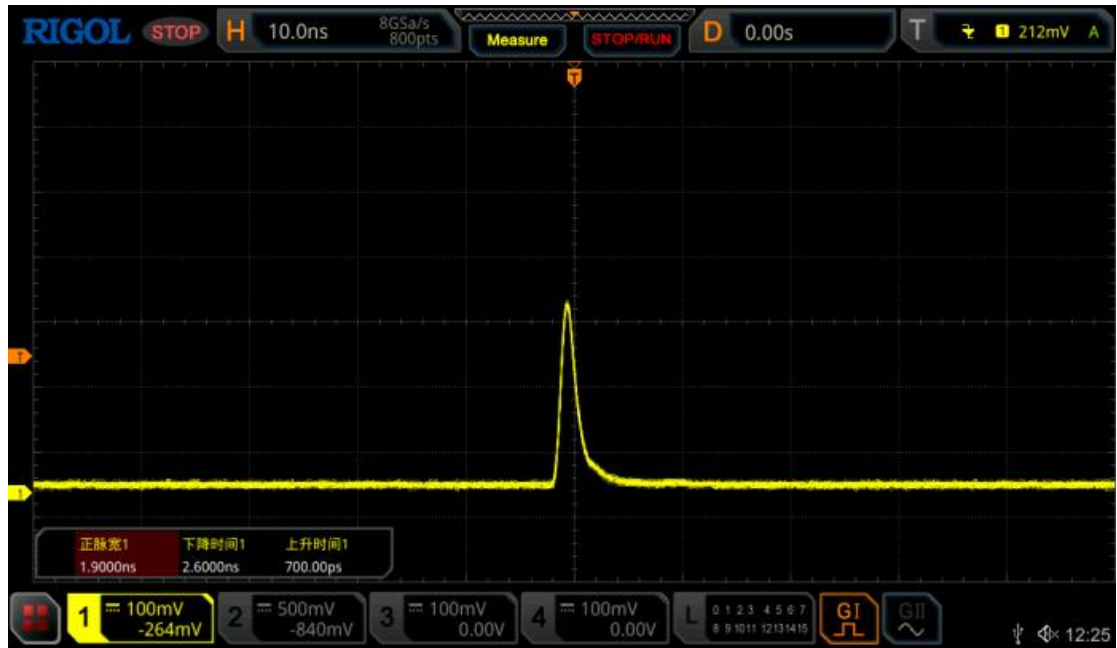


Product Specifications

Parameter	Unit	Minimum	type	Max
Operating Wavelength	nm		1550	
Input Optical Power	dBm	-30	0	5
Output Optical Power	dBm	-5		10
Pulse Width	ns	2		100
Input Pulse Current @1	mA	0		350
Modulation Frequency	KHz	0.1		1000
Output Peak Power	mW		10	30
Rise/Fall Time	ns		3	6
Modulation Extinction Ratio (High/Low Level)	dB	60		
Optical Shut-off Extinction Ratio	dB		55	
Operating Temperature Range	°C	-5		55
Storage Temperature Range	°C	-40		85
Fiber Type		SM or PM		
Supply Voltage	VDC	5		
Input Modulation Signal	-	TTL Pulse Signal		
Dimensions	mm	90x38.5x15		
Communication Protocol	-	RS485		
Operating Mode	-	External Trigger		

Note 1: The maximum input pulse current should not exceed 350mA, otherwise the device may be damaged.

Pulse Waveform





Ordering Information

PN	Description
FWBT515G25-SWSOA-2	1550nm SOA Optical Pulse Modulation Module with pulse width of 2~100ns, input power range of -30~5dBm, output power range of -5~10dBm, 5V voltage, FC/APC connector, 0.9mm, 0.5m fiber, and module size of 90x38.5x15mm