

2. 5G Bit Error Ratio Tester

PSS BERT11221



PRODUCT INTRODUCTION

PSS 2.5G high-speed BERT supports error rate performance analysis of high-speed signal with 125Mbps-4.25Gbps, BERT11221 supports two high-speed signals of SFP interface optical light-emitting receiver and SMA interface electrical generator receiver. The equipment adopts miniaturized design, small size, and adopts external power supply mode, which is convenient for environment construction.

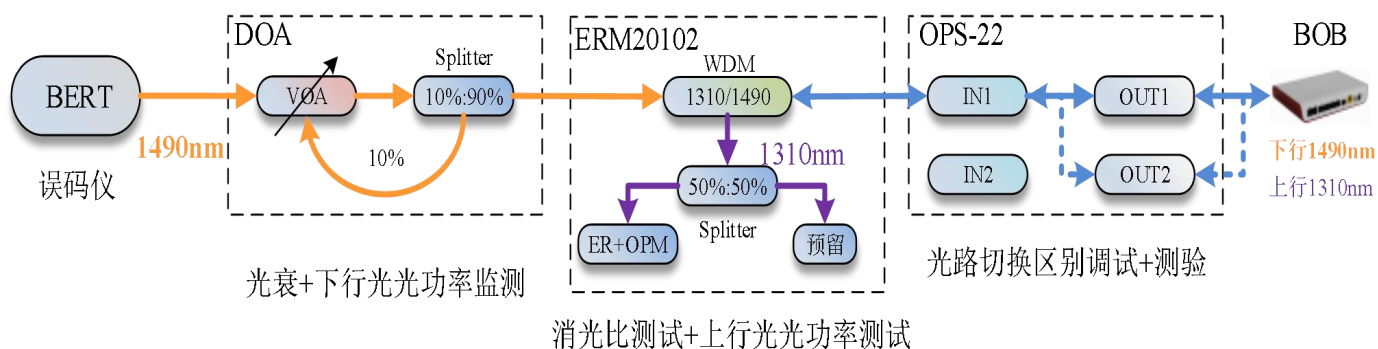
The two signals can work independently, it can custom-defined the rate and the code pattern required for measurement. Through the serial port communication with the computer, use computer interface detecting the high-speed performance of the module, and store the detection results.

PRODUCT APPLICATION

- SFP/PON modules、 optical modem test
- optical devices and equipment test (BOSA、 TOSA、 ROSA)

PRODUCT FEATURES

- Multichannel mode: Support max two channels work independently (SFP、 SMA)
- Code pattern: PRBS7、 PRBS23、 PRBS31、 CJPAT、 CRPAT、 CSPAT
- Rate (Gbps) : 0.125、 0.155、 0.200、 0.625、 1.25、 2.5、 4.25
- Support power-down memory function
- Support optical modem and optical device test



TECHNICAL PARAMETERS

Parameter	Description/Value
Channel Number	2
Channel form	transmit light and receive light; transmit electricity and receive electricity
Rate (Gbps)	0.125~4.25
Code Pattern (Prbs)	7、23、31、CJPAT、CRPAT、GSPAT
Rise time (20%~80%)	55-70ps (Typical:65ps)
Descending time (20%~80%)	60-75ps (Typical:70ps)
Jitter (Rms)	2.5-2.3.5ps (Typical:3ps)
Jitter (P-p)	15-25ps (Typical:19ps)
Amplitude of electric emission channel (differential)	400mV
Minimum receiving sensitivity (differential)	<100mV
Synchronous clock	1/2 Data Rate
Communication interface	RS232
Power Supply	5V 2A
Size (L*W*H)	132×120×35.3mm
Remarks:	The electrical signal was tested under 2.5Gbps and Prbs31 conditions