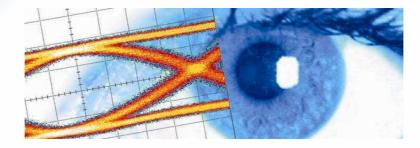
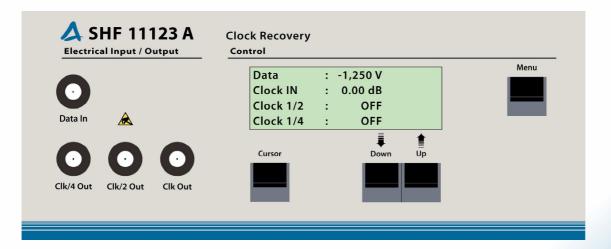


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Preliminary Datasheet SHF 11123A Clock Recovery



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Description

The SHF 11123A Clock Recovery is designed to extract and synchronize the clock from a serial data stream. It operates at bit rates from 19 to 26 (CR25) or 25.3 to 32 (CR28) Gbps. An internal synthesizer provides a reference clock for the whole bit rate range.

The SHF 11123A can be operated locally by the front panel or remote controlled via Ethernet-connection from a PC running the SHF BERT Control Center control software (BCC). Its programming features allow automated measurements using test programs like Agilent VEE or National Instruments LabView.

The module is a compact solution which offers superb performance while including easy to use features.

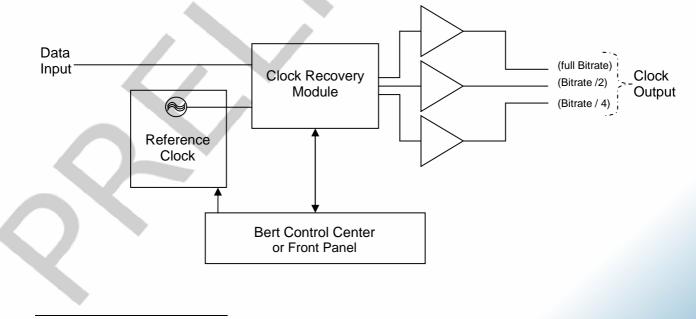
Features

- Operating bit rate range from 19 to 26 Gbps (Option CR25)¹
- Operating bit rate range from 25.3 to 32 Gbps (Option CR28)¹
- Clock output frequency at full, half and quarter of the nominal input data bit rate
- Local or remote operation via Ethernet-connection to a PC (SHF BERT Control Center)

Options

- Option CR25: With clock recovery 19 to 26 Gbps
- Option CR28: With clock recovery 25.3 to 32 Gbps

Block Diagram



¹ Not available at the same time

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Specifications – SHF 11123A

Parameter	Unit	Min.	Тур.	Max.	Comment
Data Input					
Operating bit rate CR25 CR28	Gbps	19.0 25.3		26.0 32.0	
Input Voltage	mV	200		1000	
Connector	Ω		50		ruggedized 2.92 mm male
Clock / 4 Output (quarter bit	rate)				
Output Frequency CR25 CR28	GHz	4.75 6.33		6.5 8.0	
Output Voltage (V _{pp})	mV	500		800	
Connector	Ω		50		SMA - female
RMS-Jitter	fs			1000	
Clock / 2 Output (half bit rate	?)				
Output Frequency CR25 CR28	GHz	9.50 12.65		13 16	
Output Voltage (V _{pp})	mV	500		800	
Connector	Ω		50		SMA - female
RMS-Jitter ²	fs			800	
Full Clock Output (full bit rat	e)				
Output Frequency CR25 CR28	GHz	19.0 25.3		26 32	
Output Voltage (V _{pp})	mV	500		800	
Connector	Ω		50		ruggedized 2.92 mm male
RMS-Jitter ² CR25 CR28	fs			600 800	

² on scope display, measured with Agilent 86100A with precision time base

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