

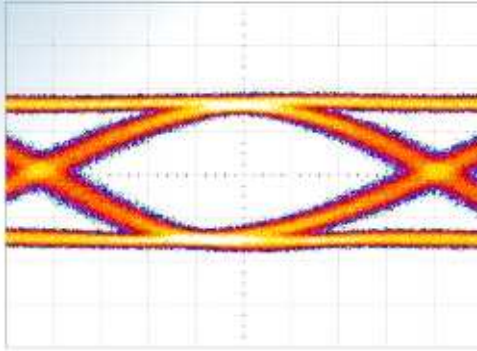


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Datasheet

SHF 58211A

Dual Amplifier





Description

The SHF 58211A is an amplifying unit for data signals with bit rates up to 50 Gbit/s. This plug-in module is part of the SHF modular measurement series and needs to be installed in a mainframe type SHF 10001A or SHF 10000B. Together with other plug-in modules from this instrument series, a modular and scalable measurement system can be configured. Field installation or upgrade by the end-user is possible for this part of equipment.

It can be specified as a one- or two channel amplifier.

Features

- output voltage level adjustment
- output crossing adjustment

Specifications – SHF 58211 A

Parameter	Unit	Min.	Typ.	Max.	Comment
Operating bit rate	Gbps			50	tuned especially for desired bit rate
Input Voltage Level	mV	200		400	typical from SHF 12100B
	V _{pp}			1	absolute maximum rating
Output Voltage Level	V	2.0		3.5	adjustable in 0.1V-steps
	V _{pp}			4	absolute maximum rating
Connector (s)	Ω		50		ruggedized V-male
Input return loss	dB		10	5	< 30GHz < 50GHz
Output return loss	dB			10	< 50GHz
Crossing	%	20 25 35	50 50 50	80 75 65	up to 28 Gbps up to 44 Gbps up to 50 Gbps adjustable in 1% steps
RMS-Jitter	fs		750	1000	Note 1 @ 28, 44 & 50 Gbps

Note 1 – depends on output voltage, crossing and operating bit rate