

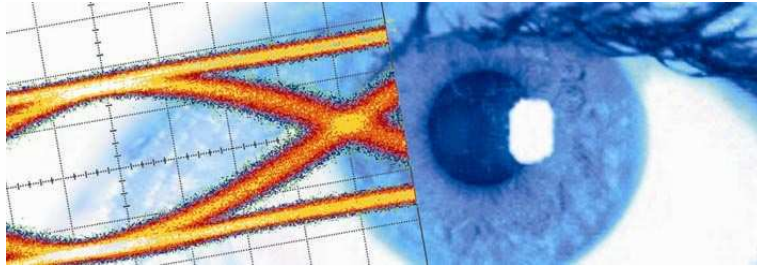


SHF Communication Technologies AG

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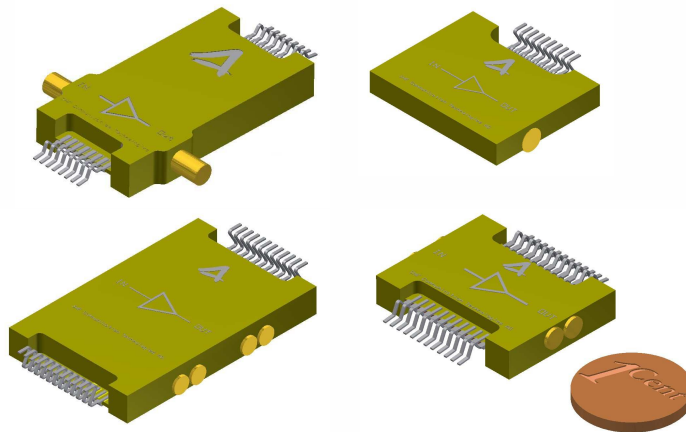
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SHF Amplets

**Modulator Driver Solutions for Optical Transmission
System Applications**





Key Features / Overview

The SHF system amplifiers are an industry-approved 40 and 100 G modulator driver solution with an excellent balance between outstanding performance and costs.

The technology is based on SHF's more than 25 years experience in broad band amplifier and MMIC chip design.

The second generation of SHF's compact small form factor (SFF) package design is further shrunk in size to reduce the cost and space requirements.

SHF system amplifiers are perfectly suited as amplifying block between SERDES and optical modulator in optical transmission system modules such as 300 PIN MSA transponders and transceivers.

A wide range of modulation formats for line and client side applications are supported. The interoperability of our drivers with SERDES chipsets and existing optical modulators is proven by our industry users.

SHF Amplet Features:

- Broadband operation
- Qualified to Telcordia standards
- Output level and crossing control capabilities
- Very compact
- Low power dissipation
- Various output voltage options to support a wide range of applications and modulation formats

For more information: sales@shf.de & www.shf.de.

	3V Amplet New, shrunk size	7V Amplet New, shrunk size	7V Amplet w. LPF	7V Amplet Four Channels	6V Amplet Differential
SHF product number	SHF AS804	SHF AS824	SHF A824F	SHF A4GGH	SHF S10D
Application / Format	ASK EML $V_{\pi} \leq 3V$ MZM $V_{\pi} \leq 3V$	ASK MZM $V_{\pi} \leq 5.5V$ DPSK MZM $V_{\pi} \leq 3V$	Duobinary MZM $V_{\pi} \leq 7V$	DP-QPSK MZM $2V_{\pi} \leq 7V$	DPSK Dual Drive MZM $2V_{\pi} \leq 6V$
Output voltage @ input voltage	$3V_{pp}$ @ $0.4 V_{pp}$ single ended	$7.5V_{pp}$ @ $0.68V_{pp}$ single ended	$7V_{pp}$ @ $0.5V_{pp}$ single ended	$7.5V_{pp}$ @ $0.68V_{pp}$ 4 x single ended	$6V_{pp}$ @ $0.6 V_{pp}$ differential
Bit rate	up to 44 Gbps			up to 128 Gbps in total	up to 44 Gbps
RF-coupling @ input and output	AC				DC
Connector type @ input and output	Mini-SMP (GPPO [®] - compatible), male				
Additional features	Output level detector, output level control, crossing control, temperature sensor				
Approximate Size w. connectors, w/o leads	27x22x4 mm		31x37x6 mm	25x40x5 mm	25x20x5 mm