

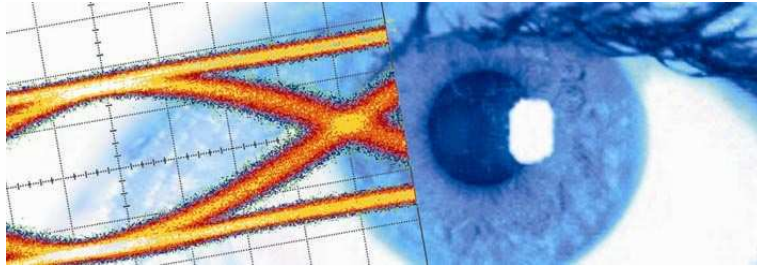


SHF Communication Technologies AG

Wilhelm-von-Siemens-Str. 23D • 12277 Berlin • Germany

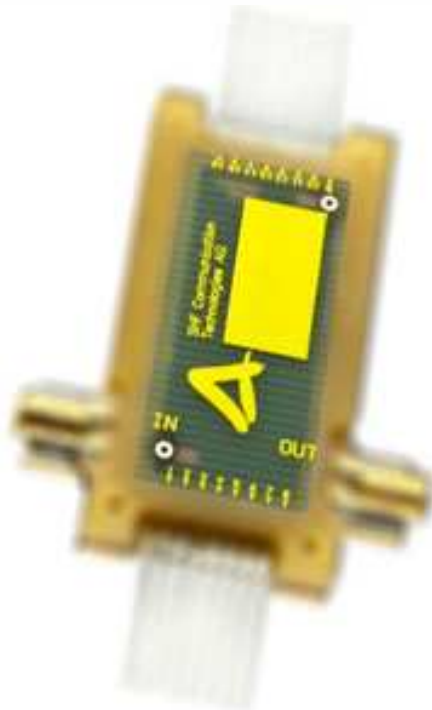
Phone ++49 30 / 772 05 10 • Fax ++49 30 / 753 10 78

E-Mail: sales@shf.de • Web: <http://www.shf.de>



SHF 40G Amplets

Modulator Driver Solutions for Optical Transmission Systems Application





Key Features

The SHF system amplifiers are an industry-approved solution for 40 Gbps modulator drivers 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.

With the small form factor (SFF) package design for compactness, SHF system amplifiers are perfectly suited as amplifying block between the SERDES and optical modulator in 40G 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 40G SERDES chipsets and existing single-ended as well as dual-drive optical modulators is proven by our industry users.

- Broadband operation up to 44 Gbps
- Single-ended and differential versions
- 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 please contact our team at sales@shf.de

	<u>3V Amplet</u>	<u>7V Amplet</u>	<u>7V Amplet</u> shrunk size	<u>7V Amplet</u> with integrated LPF	<u>6V Differential Amplet</u>
Application / Format	<u>ASK</u> EML $V_{\pi} \leq 3V$ MZM $V_{\pi} \leq 3V$	<u>ASK</u> MZM $V_{\pi} \leq 5.5V$ <u>DPSK</u> MZM $V_{\pi} \leq 3V$		<u>Duobinary</u> MZM $V_{\pi} \leq 3V$	<u>DPSK</u> Dual Drive MZM $2 \times V_{\pi} \leq 6V$
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	$6V_{pp}$ @ $0.6 V_{pp}$ differential
Bit rate	Broadband 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 with RF connectors, without leads	31x37x6 mm		27x22x4 mm	31x37x6 mm	25x20x5 mm