

# Small Instrumentation Modules

*SIM954 — 300 MHz dual-channel inverting amplifier*

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INGENIEROS

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- **300 MHz bandwidth**
- **$\pm 10$  V output voltage**
- **Up to 1 A output current**
- **<1 dB flatness**
- **4000 V/ $\mu$ s slew rate**
- **2 independent channels**

• **SIM954 ... \$975 (U.S. list)**



## **SIM954 300 MHz Amplifier**

The SIM954 Amplifier is a 300 MHz, dual-channel inverting amplifier that delivers up to  $\pm 10$  V of output voltage and up to 1 A of output current. The amplifier can be used to drive many types of light laboratory loads without imposing the limitations and high cost of typical RF power amplifiers.

### **Specifications**

Bandwidth (–3 dB)	DC to 300 MHz
Gain	12 dB into 50 $\Omega$ (inverting)
Gain flatness	<1 dB (DC to 100 MHz)
Crosstalk	–60 dB (at 1 MHz), –40 dB (full BW)
VSWR	1.2:1 (DC to 100 MHz) 1.6:1 (DC to 300 MHz)
Isolation (output to input)	–70 dB (DC to 1 MHz), –40 dB (full BW)
Slew rate	4000 V/ $\mu$ s
Output amplitude	$\pm 10$ V (into 50 $\Omega$ )
Peak output current	1 A (into $\leq 7 \Omega$ )

Average output current	500 mA (sum of both channels)
Output impedance	3.3 $\Omega$
Input impedance	50 $\Omega$
Input offset voltage	1 mV (trimmable)
Input bias current	10 $\mu$ A (trimmable)
Operating temperature	0 to 40 °C, non-condensing
Interface	Serial via SIM interface
Connectors	BNC (4 front-panel) DB15 (male) SIM interface
Power	Supplied by SIM900 Mainframe, or optionally by a user-supplied DC power supply ( $\pm 15$ V and +5 V)
Dimensions	1.5" $\times$ 3.6" $\times$ 7.0" (WHD)
Weight	1.5 lbs.
Warranty	One year parts and labor on defects in materials and workmanship

### **Ordering Information**

SIM954 300 MHz inverting amplifier \$975