

# Small Instrumentation Modules

*SIM954 — 300 MHz dual-channel inverting amplifier*

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- **300 MHz bandwidth**
- **±10 V output voltage**
- **Up to 1 A output current**
- **<1 dB flatness**
- **4000 V/μs 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 ±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 Ω (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/μs
Output amplitude	±10 V (into 50 Ω)
Peak output current	1 A (into ≤7 Ω)

Average output current	500 mA (sum of both channels)
Output impedance	3.3 Ω
Input impedance	50 Ω
Input offset voltage	1 mV (trimmable)
Input bias current	10 μA (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 (±15 V and +5 V)
Dimensions	1.5" × 3.6" × 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