

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/ μ s slew rate
- 2 independent channels

· SIM954 ... \$1295 (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 50Ω (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/ μ s
Output amplitude	± 10 V (into 50Ω)
Peak output current	1 A (into $\leq 7 \Omega$)
Average output current	500 mA (sum of both channels)

Output impedance	3.3Ω
Input impedance	50Ω
Input offset voltage	1 mV (trimmable)
Input bias current	10μ 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 (± 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	\$1295
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