

Small Instrumentation Modules

SIM954 — 300 MHz dual-channel inverting amplifier

- **300 MHz bandwidth**
- **±10 V output voltage**
- **Up to 1 A output current**
- **<1 dB flatness**
- **4000 V/μs slew rate**
- **2 independent channels**



TR instruments
Tel.: +420 541 633 670
Fax: +420 541 212 413
Křižíkova 70, 612 00 Brno
tri@trinstruments.cz



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) |

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|------------------------|---|
| 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