

20 to 2500 MHz High-Power Instrumentation Amplifier

RM000220

The RM000220 instrumentation amplifier has been specifically developed for laboratory test environments that demand extreme bandwidth from a single amplifier. It saves time and increases productivity by eliminating additional calibrations, reconfigurations, and errors associated with connecting or switching multiple amplifiers.

Typical Applications

- Broadband wireless communications and component test environments
- Electronic warfare (EW) electronic counter measures (ECM), electronic counter-counter measures (ECCM)
- Satellite Intermediate Frequency (IF) systems testing
- Electromagnetic interference (EMI) and electromagnetic compatibility(EMC) testing

Physical Parameters

- 67 mm x 432 mm x 435 mm
- 1.75" x 17.0" x 17.1"
- RF connectors in/out: SMA (F)

Key Features

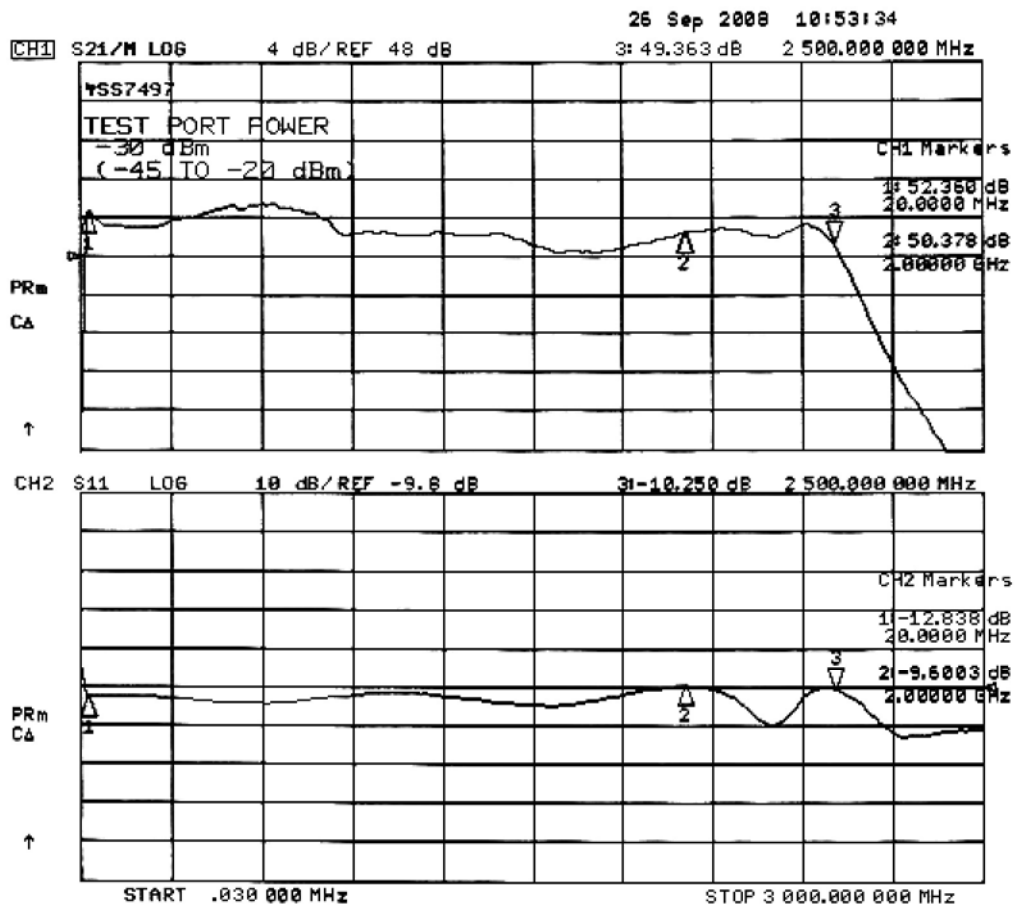
- Unconditionally stable
- Low noise figure (10 dB max.)
- Highly load tolerant
- Typical spurious response -75dBc
- 20 watts nominal saturated output power
- 20-2500 MHz frequency range
- 45 dB gain min.
- Compact rack mount package
- Can be driven with standard lab signal sources

Environmental Parameters

- Operating temperature -20 to 50 °C
- Storage temperature -40 to 75 °C

Electrical Parameters	Specifications	Conditions
Frequency range	20-2500 MHz	
Gain	45 dB min.	
Gain flatness	+/- 3 dB max.	
Input VSWR (50 ohms)	2.0:1 max.	50 ohm reference impedance
Noise figure	10 dB max.	
Output power, saturated	20 watts min.	
Output power, 1 dB	5 watts min.	
Max. operating input power	+10 dB max.	
Stability	unconditional	
Max. load VSWR	Infinite	
Line voltage	85-264 vac.	47 to 63 Hz, single phase
Power dissipation	300 VA max.	

Typical Gain and Return Loss



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