

6 to 18 GHz Instrumentation Amplifier

RM061805

The RM061805 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
- Satellite systems testing
- Electromagnetic interference (EMI) and electromagnetic compatibility (EMC) testing

Key Features

- Unconditionally stable
- Low noise power
- Typical spurious <-65 dBc
- Five Watts nominal saturated output power
- 6-18 GHz frequency range
- 35 dB gain
- Compact rack mount package
- Can be driven with standard lab signal sources

Physical Parameters

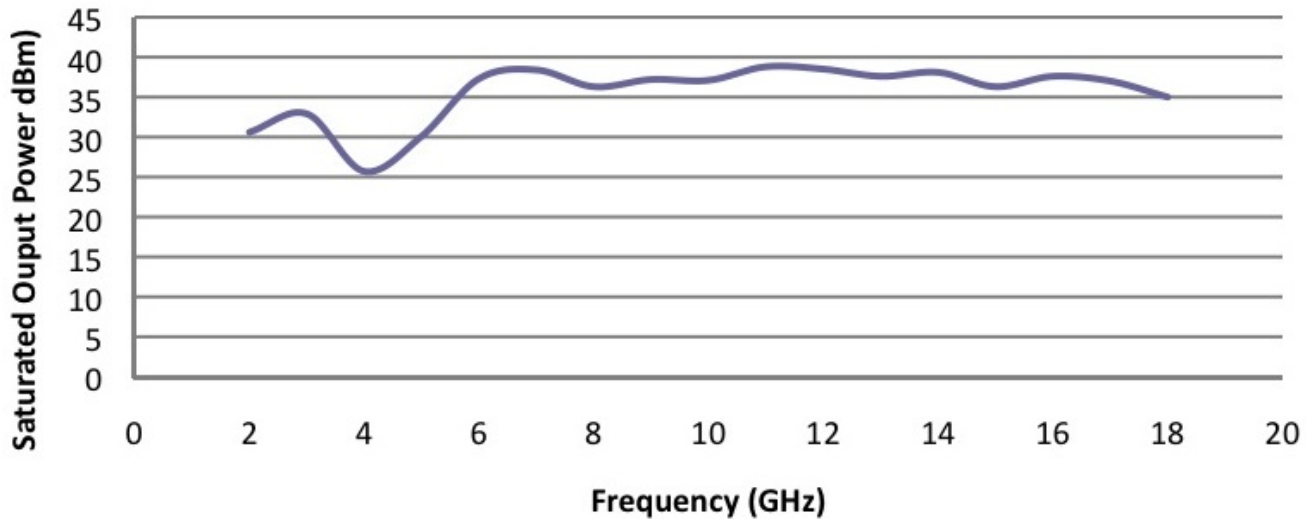
- 67 mm x 432 mm x 435 mm
- 1.75" x 17.0" x 17.1"
- RF connectors in/out: SMA (F)

Environmental Parameters

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

Electrical Parameters	Specifications	Conditions
Frequency range	6-18 GHz	
Gain	30 dB Min., 35 dB Typ.	
Gain flatness	+/- 3 dB typ.	
Input VSWR (50 ohms)	3.0:1 Max., 2.0:1 Typ.	50 ohm reference impedance
Noise figure	10 dB Max.	
Output power, saturated	3 Watts Min., 5 Watts Typ.	
Output power, 1 dB	2 Watts Min., 4 Watts Typ.	
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	100 VA max.	

Typical Output Power



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