

Datasheet, Rev 1B: Issue June 2015, Revised October 2015

KA1907 is a wide band low noise amplifier with flat gain-frequency response.

KEY FEATURES

- ✓ Ultra wide band
- ✓ High and flat gain
- ✓ Low noise figure
- ✓ Low power consumption
- ✓ Reliable solid case
- ✓ Small dimensions

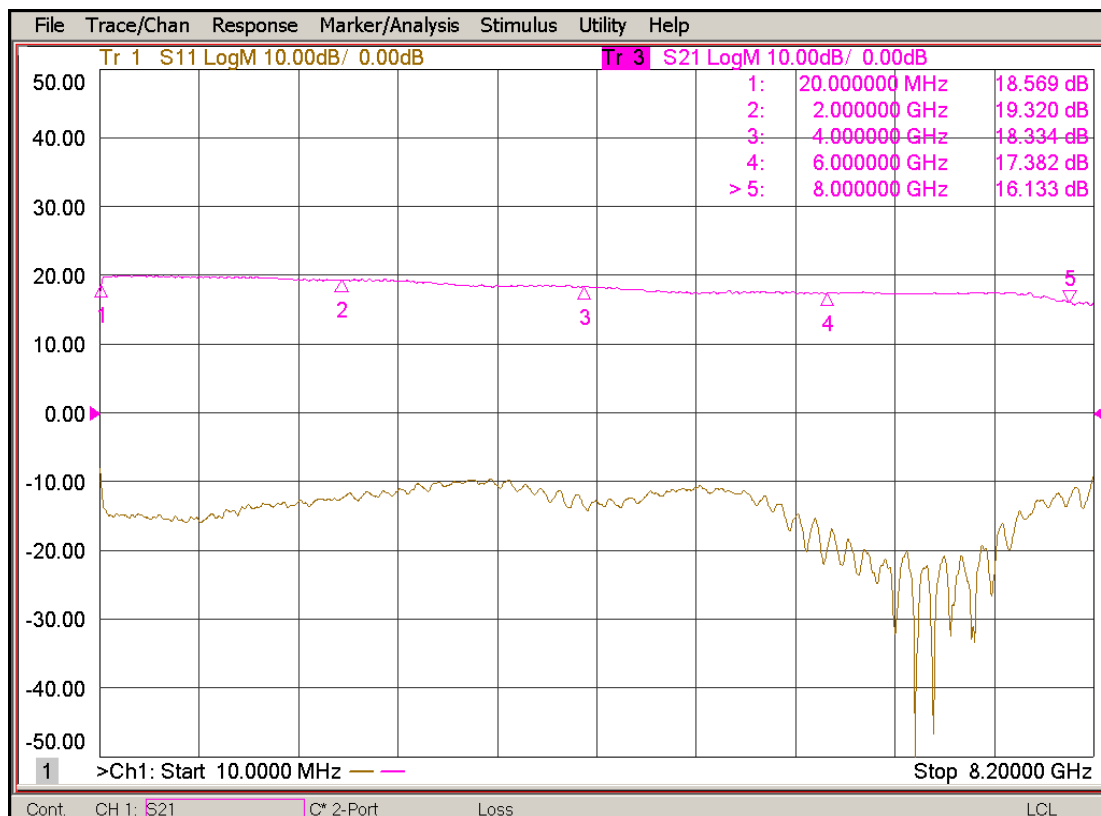
APPLICATIONS

- ✓ Radio-transmitters
- ✓ Cellular networks
- ✓ Radio-monitoring



KA1907 mechanical enclosure.

PRODUCT DESCRIPTION



Gain and input matching vs. frequency

Absolute maximum ratings

Supply voltage max	+35	V
Supply voltage min	+8.5	V
Maximum RF input	+12	dBm

Operation of this device in excess of any of the limits may cause permanent damage.

RF and DC characteristics*

Frequency	20MHz	1.8GHz	3GHz	5GHz	6GHz	7GHz	8GHz	MHz
Gain	18.5	19.5	18.5	17.5	17.0	16.5	16.0	dB
Noise figure	2.5	2.2	2.6	2.8	2.9	3.0	3.5	dB
1dB output compression	10.0	11.5	12.0	12.0	12.0	12.0	11.0	dBm
Output IP3	21.0	22.8	22.7	22.7	22.5	23.0	23.0	dBm
Input return loss	10							dB
Output return loss	12							dB
Current consumption	70							mA
Voltage supply	+9...+20							V

*Values measured at environment temperature T = +25°C.
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Mechanical specifications

RF Input/output connectors	SMA-female 50 Ω/SMA-female 50 Ω
DC connector	Soldering pins
Dimensions	50x40x13 mm, aluminum

Rantelon Ltd reserves the right to change the specification without notice.