

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

KA1306 is a wide band low noise amplifier with flat gain-frequency response and high level output.

KEY FEATURES

- ✓ High and flat gain
- ✓ Wide band up to 6GHz
- ✓ High output level +20dBm
- ✓ High output IP3
- ✓ Compact and solid case
- ✓ Small dimensions

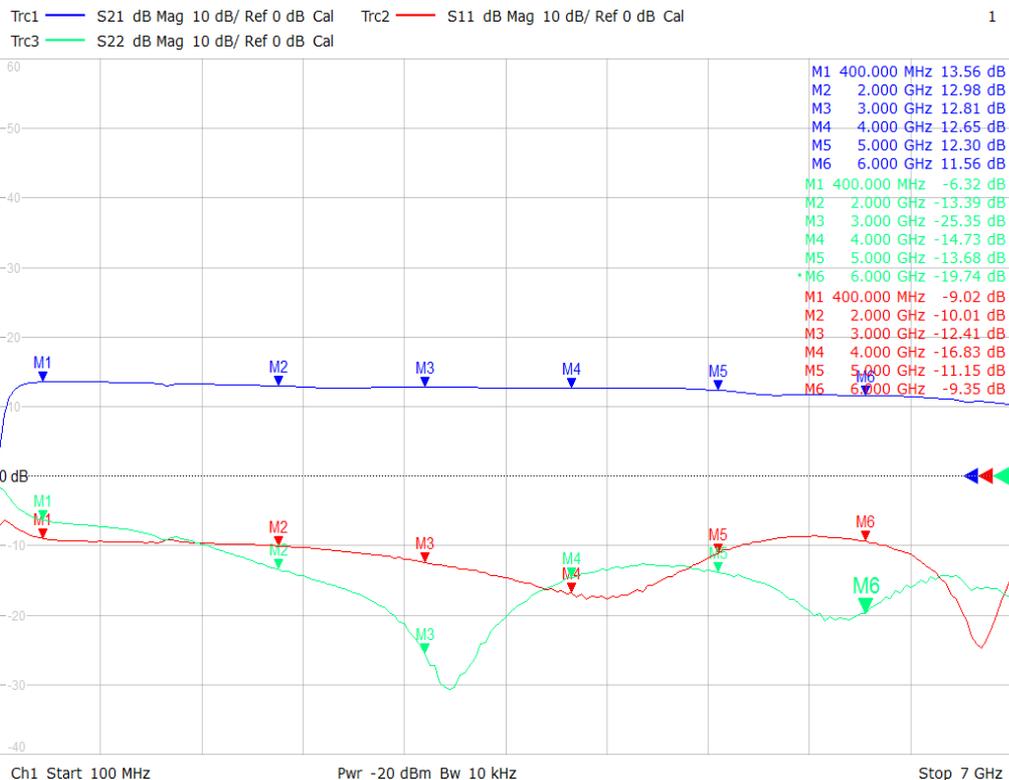
APPLICATIONS

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



KA1306 mechanical enclosure.

PRODUCT DESCRIPTION



Gain(S21) and input (S11)/output(S22) matching vs. frequency

Absolute maximum ratings

Supply voltage max	+35	V
Supply voltage min	+8.5	V
Maximum RF input	+14	dBm

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

RF and DC characteristics*

Frequency	0.4 GHz	2 GHz	3 GHz	4 GHz	5 GHz	6 GHz	
Gain	13.5	13.0	12.7	12.5	12.0	11.5	dB
Noise figure	1.9	2.6	2.6	2.9	3.1	3.5	dB
1dB output compression	21.0	21.0	21.0	21.5	21.5	20.5	dBm
Output IP3	35.0	35.5	35.0	35.0	35.5	36.0	dBm
Input return loss	10 typ.						dB
Output return loss	10 typ.						dB
Current consumption	125						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 reserves the right to change the specification without notice.