

Datasheet, Rev 1A: Issue November 2015

KA2506 is a wide band low noise amplifier with high flat gain-frequency response and high level output.

KEY FEATURES

- ✓ High and flat gain
- ✓ Wide band
- ✓ Low noise figure
- ✓ Small dimensions
- ✓ Low power consumption
- ✓ Compact and solid case

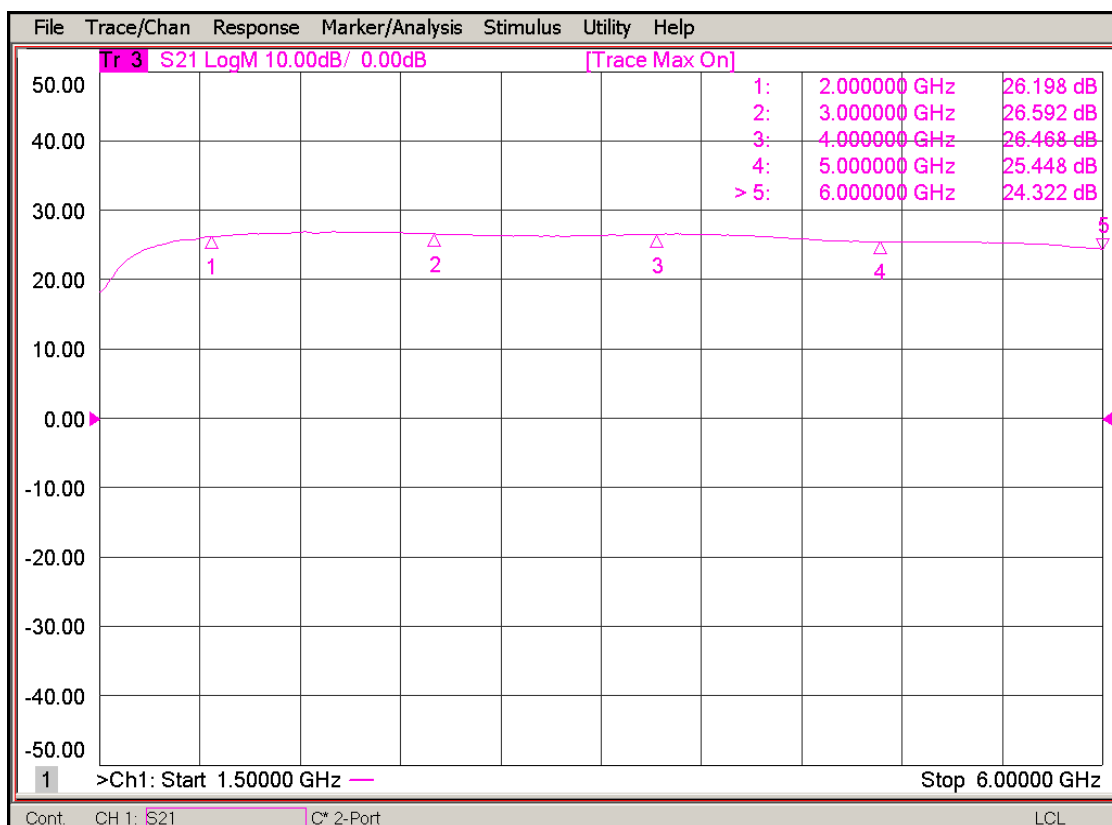


KA2506 mechanical enclosure.

APPLICATIONS

- ✓ Radio-transmitters
- ✓ Cellular networks
- ✓ Radio-monitoring
- ✓ WLAN/Wi-Fi

PRODUCT DESCRIPTION



Gain vs. frequency

Absolute maximum ratings

| | | |
|--------------------|------|-----|
| Supply voltage max | +35 | V |
| Supply voltage min | +8.5 | V |
| Maximum RF input | +10 | dBm |

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

RF and DC characteristics*

| Frequency | 2GHz | 3GHz | 4GHz | 5GHz | 6GHz | |
|------------------------|---------|------|------|------|------|-----|
| Gain | 26.0 | 26.5 | 26.0 | 25.0 | 24.0 | dB |
| Noise figure | 2.3 | 2.3 | 2.1 | 2.9 | 3.2 | dB |
| 1dB output compression | 17.5 | 18.5 | 19.0 | 19.0 | 19.0 | dBm |
| Output IP3 | 32.0 | 32.5 | 33.0 | 33.0 | 33.0 | dBm |
| Input return loss | 10 typ. | | | | | dB |
| Output return loss | 12 typ. | | | | | dB |
| Current consumption | 145 | | | | | mA |
| Vcc | +9 | | | | | 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.