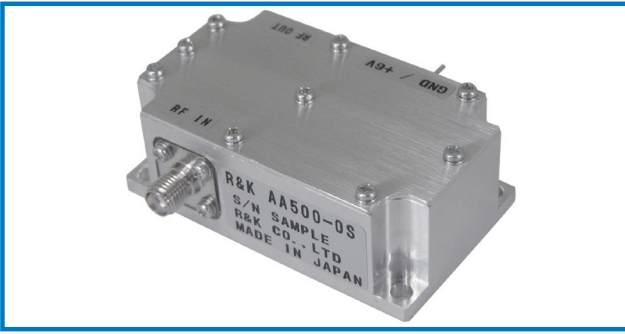


SMALL SIGNAL AMPLIFIER

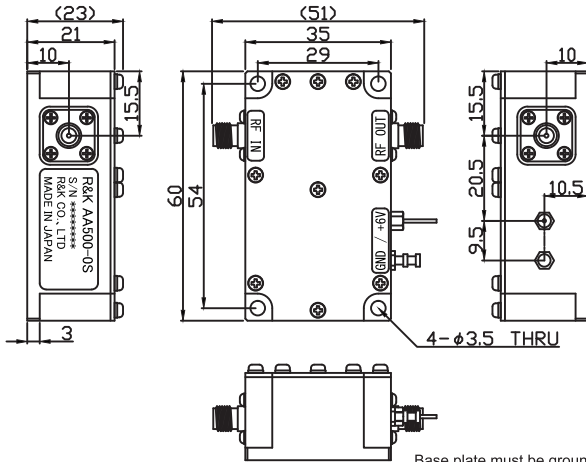


R&K-AA500-0S



OUTLINE DRAWING

※IN MILLIMETERS



Base plate must be grounded and mounted to heat sink to guarantee operation up to maximum temperature.

- Broadband Frequency : 3200MHz ~ 5200MHz
- Output Power : +30dBm @4GHz
- Gain Flatness : ±1.5dB (max.)
- Low Cost
- RoHS Compliance

SPECIFICATIONS

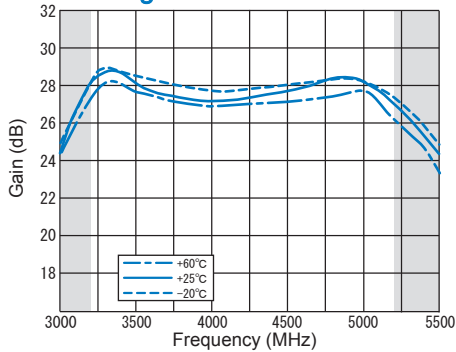
| | |
|---|--|
| Frequency Range | : 3200MHz ~ 5200MHz |
| Small Signal Gain | : +27dB (typ.) @4GHz : +25dB (min.) |
| Gain Flatness | : ±1.5dB (max.) |
| Output Power@1dB Comp. | : +30dBm (min.) @4GHz |
| Output I.C.P. | : +42dBm (typ.) @4GHz |
| Noise Figure | : 7.0dB (max.) |
| Impedance | : 50 Ω |
| Input VSWR | : 2.0 : 1 (typ.) |
| Output VSWR | : 1.8 : 1 (typ.) |
| DC Supply Input | : +6V ±0.2V : 1700mA (max.) |
| Maximum RF Input Power | : +12dBm |
| Operating Temperature (@Base Plate Temp.) | : -20°C to +60°C |
| Storage Temperature | : -20°C to +80°C |
| Connectors | : SMA-FEMALE |
| Weight | : 85g (typ.) |

HOW TO ORDER

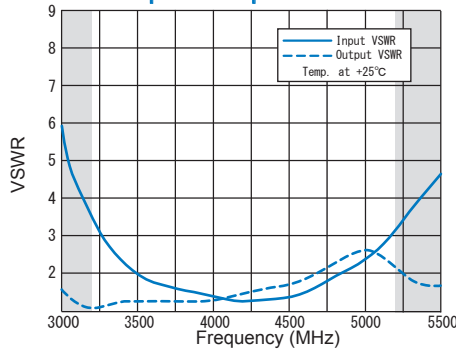
| | | |
|------------|--------------|-------------------|
| Model Name | R&K-AA500-0S | No Option |
| | | 0 = Module |
| | | 1 = With Heatsink |

TYPICAL PERFORMANCE

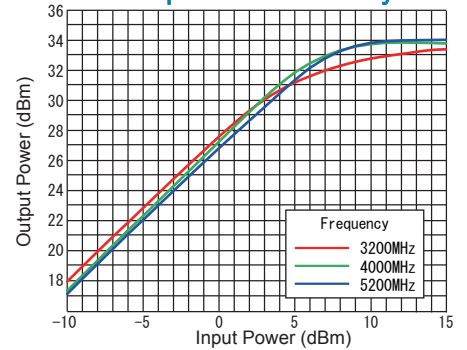
Small Signal Gain & Gain Flatness



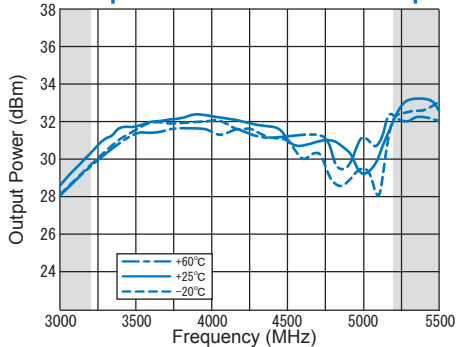
Input / Output VSWR



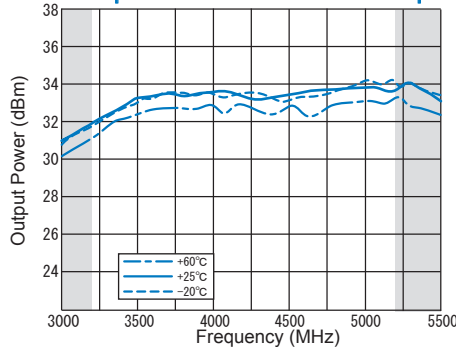
Output Power Linearity



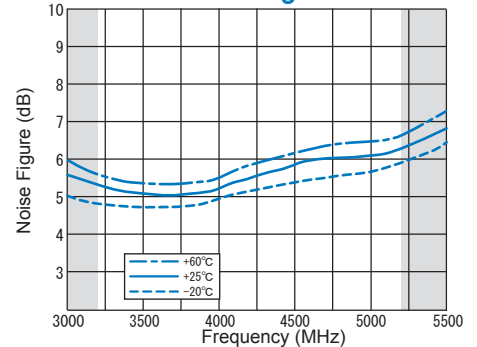
Output Power 1dB Gain Comp.



Output Power 3dB Gain Comp.



Noise Figure



R&K reserves the right to make changes in the specifications or to discontinue products at any time without notice. R&K products shall not be used for or in connection with equipment that requires an extremely high level of reliability and safety such as aerospace uses or medical life support equipment. Further, R&K cannot export products to any country for use in military or defense applications.

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