

# POWER AMPLIFIER

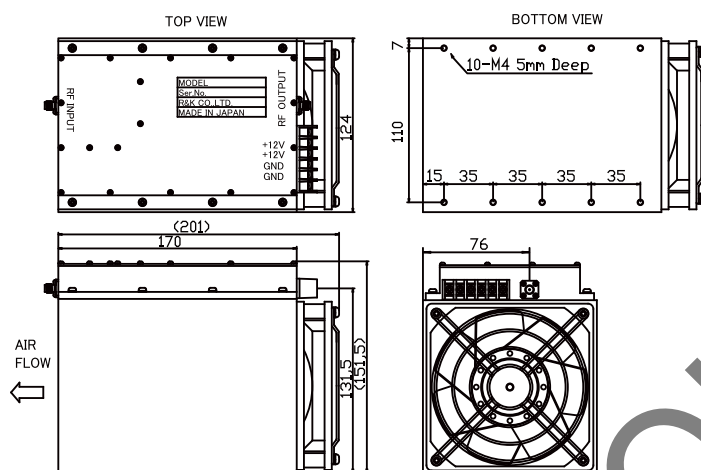


## R&K-ALM00505-4546-SMA



### OUTLINE DRAWING

※IN MILLIMETERS



- Broadband Frequency : 50 ~ 500MHz
- Output Power : +46dBm
- Gain Flatness :  $\pm 2.5$ dB (typ.)

### SPECIFICATIONS

Frequency Range	: 50~500MHz
Small Signal Gain	: +46dB (typ.) +44dB (min.)
Gain Flatness	: $\pm 2.5$ dB (typ.)
Output Power@3dB Comp.	: +43dBm (min.)
Output I.C.P.	: +53dBm (typ.) @500MHz
Noise Figure	: 6.5dB (max.)
Impedance	: 50 $\Omega$
Input VSWR	: 3.0 : 1 (typ.)
Output VSWR	: 5.0 : 1 (typ.)
DC Supply Input	: +12V $\pm 0.5$ V 13A (max.)
Maximum RF Input Power	: +3dBm
Operating Temperature	: -10°C to +45°C
Storage Temperature	: -15°C to +65°C
Connectors	: SMA-FEMALE
Weight	: 3kg (typ.)

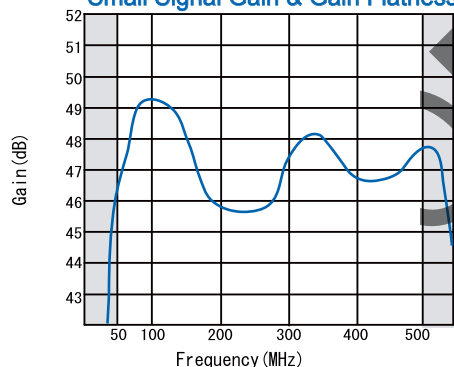
**Forced Air Cooling Required**

### HOW TO ORDER

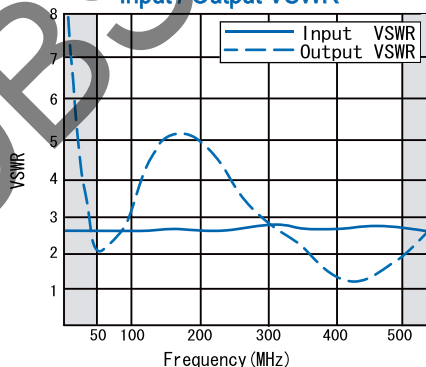
Model Name  
R&K-ALM00505-4546-SMA No Option

### TYPICAL PERFORMANCE (Temp @+25°C)

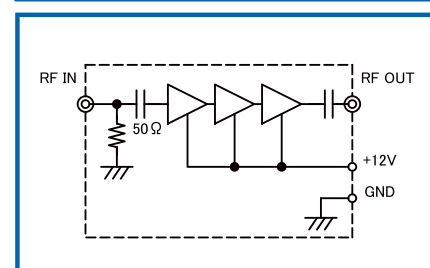
Small Signal Gain & Gain Flatness



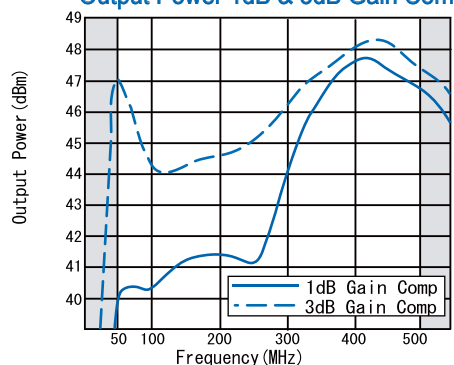
Input / Output VSWR



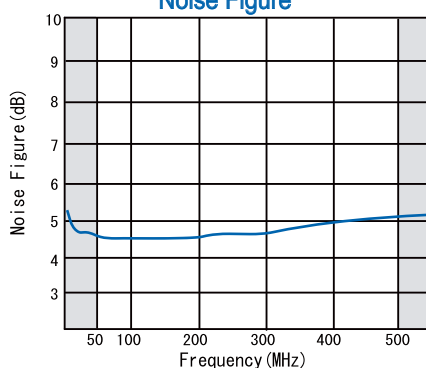
### SCHEMATIC



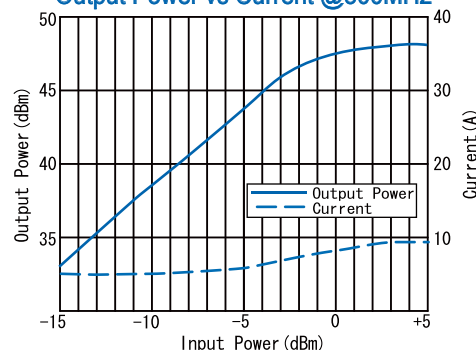
Output Power 1dB & 3dB Gain Comp.



Noise Figure



Output Power vs Current @500MHz



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