

# R&K New Product & Technology

## RF POWER AMPLIFIER

**All Solid State,  $\geq 20\text{kW}!!$**

◀ Radial Combiner Equipped Model ▶  
**CA509MBW6-7373R**



- All Solid State Amplifier
- Frequency Range : 509MHz  $\pm$  3MHz
- Output Power : 20kW (min.) @P1dB
- Small Signal Gain : +73dB (min.)

**9kHz~250MHz,  $\geq 500\text{W}$**

◀ Digital Panel Meter Equipped Model ▶  
**A009K251-5757R**



- All Solid State Amplifier
- Frequency Range : 9kHz~250MHz
- Output Power
  - 9 kHz~200MHz : 500W (min.) @P1dB
  - 200MHz~250MHz : 375W (min.) @P1dB
  - 450W (min.) @P3dB
  - 500W (min.) @Psat
- Small Signal Gain : +57dB (min.)

## RADIAL COMBINER

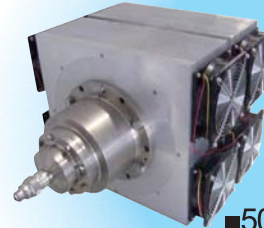


■ 509MHz / 16-Way

Output Side



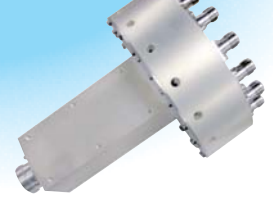
Input Side



■ 509MHz / 64-Way



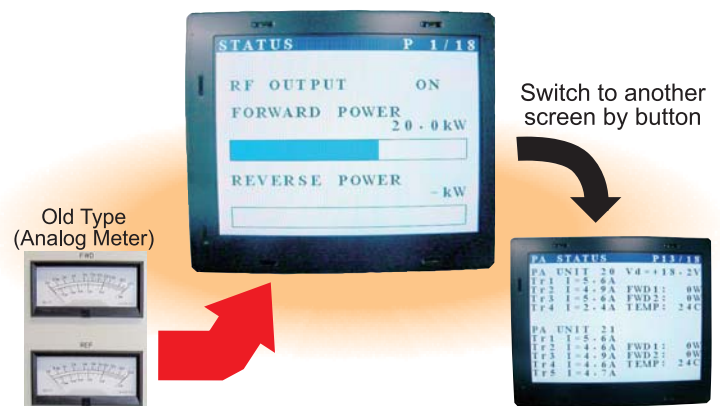
■ 2GHz~6GHz / 8-Way



■ 1GHz~2.5GHz / 16-Way

R&K realized All Solid-State RF High Power Amplifiers of few kW to 100kW output power by adopting "Radial Combiner" technology which makes it possible to combine odd or prime number outputs at extremely low loss. The max/min frequency bandwidth ratio is maximum 5 times at the moment. Special feature is the use of internal absorptive resistors. R&K is currently developing for even larger bandwidth and higher power.

## Digital Panel Meter



The Digital Panel Meter built in RF High Power Amplifiers enables all the current, voltage, temperature, forward power and reflection power being monitored and recorded at all times. All parameters of the past operation can be recorded and stored by time marker.

- \* Monitored data can be checked by LCD/TFT at any time
- \* Monitored data can be stored for over 10 years in SD card (SD Card is removable and the stored data can be transferred as an electronic file)
- \* Easy-to-read bright color display (small-size/large-size)
- \* Controllable from PC by GPIB/RS232C/LAN (Panel display in a distant place is also available)
- \* 3.5 year warranty for RF High Power Amplifiers with the Digital Panel Meter



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