**RF POWER AMPLIFIER**

**R&K-A009K551-4242R**

- Class A Linear Solid-State Amplifier
- Broadband Frequency: 9kHz ~ 550MHz
- Output Power (CW): 15W (min.) @ 1dB Comp.
  - 25W (typ.) @ 3dB Comp.

**APPLICATION**
- EMC (Electromagnetic Compatibility)
- Etc...

**SPECIFICATIONS @ +25°C**

- Frequency Range: 9kHz ~ 550MHz
- Small Signal Gain: +42.0dB (min.)
- Gain Flatness: ± 2.0dB (max.)
- Output Power (CW): 15W (min.) @ 1dB Comp.
  - 25W (typ.) @ 3dB Comp.
- Operation Mode: Class A
- Harmonics: -20.0dBc (max.) @ P0=15W
- Spurious: -60.0dBc (max.) @ P0=15W
- Impedance: 50Ω
- Input VSWR: 2.0 (max.)
- Output VSWR: 3.0 (max.)
- Maximum RF Input Power: +3.0dBm
- AC Supply Input: AC 85V ~ 250V / 1φ, 50/60Hz, 140VA (typ.), 160VA (max.)
- Operating Temperature: 0°C to +40°C
- Storage Temperature: -15°C to +65°C
- Connectors: RF - IN N - FEMALE
  - RF - OUT N - FEMALE
- Size: (W) 320mm × (D) 350mm × (H) 149mm
- Weight: 10.5kg (typ.)
- Cooling: Forced Air Cooling
- Protection Circuits: Over Temperature Protection
  - Power Supply Voltage Protection

**TYPICAL PERFORMANCE (Temp @ +25°C)**

- **Small Signal Gain**
  - Gain (dB) vs. Frequency (MHz)
- **Input / Output VSWR**
  - Input VSWR vs. Output VSWR
- **Output Power Linearity**
  - Output Power vs. Input Power (dBm)
- **Output Harmonics**
  - Output Harmonics vs. Frequency (MHz)

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