R&K-A080M102-4949R

RF POWER AMPLIFIER

Class A Linear Solid-State Amplifier
- Broadband Frequency: 80MHz ~ 1000MHz
- Output Power (CW): 100W (min.) \( @3 \text{dB Comp.} \)

APPLICATION
- EMC (Electromagnetic Compatibility)
- Accelerator Application
- Telecommunication Test and Measurement Application
- Etc...

SPECIFICATIONS \( @ +25^\circ \text{C} \)

- Frequency Range: 80MHz ~ 1000MHz
- Small Signal Gain: +49.0dB (min.)
- Gain Flatness: \( \pm 2.0 \text{dB} \) (max.)
- Output Power (CW): 75W (min.) \( @1 \text{dB Comp.} \)
- 100W (min.) \( @3 \text{dB Comp.} \)
- Operation Mode: Class A
- Harmonics: \(-20.0 \text{dBc} \) (max.) \( @P_{o}=75W \)
- Spurious: \(-70.0 \text{dBc} \) (max.) \( @P_{o}=75W \)
- Impedance: 50\( \Omega \)
- Input VSWR: 2.0 (max.)
- Output VSWR: 3.0 (max.)
- Maximum RF Input Power: +3.0dBm
- AC Supply Input: AC85V~250V/1\( \phi \), 50/60Hz, 1kVA
- Operating Temperature: 0°C to +40°C
- Storage Temperature: \(-15^\circ \text{C} \) to +65°C
- Connectors: RF- IN N-FEMALE @REAR PANEL
- Size: (W)480mm\times(D)559.5mm\times(H)177mm(EIA:4U)
- Weight: 27.0kg (typ.)
- Cooling: Forced Air Cooling
- Protection Circuits: Over Temperature Protection
- Power Supply Voltage Protection
- Output Over Power Protection
- Output Over Reflected Power Protection
- Other Functions: GP-IB(IEEE-488)
- Safety Interlock(EMERGENCY)

TYPICAL PERFORMANCE (Temp @+25°C)

- Small Signal Gain
- Input / Output VSWR
- Output Power Linearity
- Output Harmonics
- Output Power 1dB Gain Comp.

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