RF POWER AMPLIFIER

R&K-A080M102-6060R

Class A Linear Solid-State Amplifier
- Broadband Frequency: 80MHz ~ 1000MHz
- Output Power (CW): 1kW (typ.) @ 1dB Comp.
- Building-block Construction Design

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

SPECIFICATIONS @ +25°C

Frequency Range: 80MHz ~ 1000MHz
Small Signal Gain: +60.0dB (min.)
Gain Flatness: ±3.0dB (max.)
Output Power (CW):
- 80MHz ~ 90MHz: 1kW (min.) @ 3dB Comp.
- 80MHz ~ 900MHz: 850W (min.) @ 1dB Comp.
- 90MHz ~ 1000MHz: 1kW (min.) @ 1dB Comp.
Operation Mode: Class A
Output I.C.P.: +70.0dBm (typ.)
Harmonics @ 90MHz ~ 1000MHz: -20.0dBc (max.) @ Po = 1kW
Spurious Outputs: -70.0dBc (max.) @ Po = 1kW
Impedance: 50Ω
Input VSWR: 2.0 (max.)
Output VSWR: 2.5 (typ.) Δ1
Maximum RF Input Power: +3.0dBm
AC Supply Input: AC200V ± 15%, 3φ, 50/60Hz, 15kVA
Operating Temperature: 0°C to +35°C
Storage Temperature: -15°C to +55°C
Connectors:
- RF-IN: N-FEMALE @ REAR PANEL
- RF-OUT: 7/16-FEMALE @ REAR PANEL

Size: (W)660mm × (D)1000mm × (H)1282mm
(Excluding Projection)
Weight: 305.0kg (typ.) Δ1
Cooling: Forced Air Cooling
Protection Circuits:
- Over Temperature Protection
- Power Supply Voltage Protection
- Output Over Power Protection
- Output Over Reflected Power Protection
- R&K Multi Monitoring System
- GP-IB (IEEE-488)
- Safety Interlock (EMERGENCY)

Other Functions:
- EMC (Electromagnetic Compatibility)
- Accelerator Application
- Telecommunication Test and Measurement Application
- Etc...

TYPICAL PERFORMANCE (Temp @ +25°C)

Gain Flatness
Input / Output VSWR
Output Power 1dB Gain Comp.
Output Harmonics

* CHANGE Δ1 7/May/2018