2018 Model
R&K-GA002M122-5757R

- All Solid-State Amplifier
- Broadband Frequency: 2MHz~1250MHz
- Output Power (CW) : 500W @1dB Comp.

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

SPECIFICATIONS @ +25°C

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>2MHz~1250MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small Signal Gain</td>
<td>+57.0dB (min.)</td>
</tr>
<tr>
<td>Gain Flatness</td>
<td>±2.3dB (max.)</td>
</tr>
<tr>
<td>Output Power (CW) 2MHz~50MHz</td>
<td>100W (typ.) @1dB Comp.</td>
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<tr>
<td>50MHz~400MHz</td>
<td>500W (min.) @1dB Comp.</td>
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<tr>
<td>400MHz~800MHz</td>
<td>400W (min.) @1dB Comp.</td>
</tr>
<tr>
<td>800MHz~1250MHz</td>
<td>300W (min.) @1dB Comp.</td>
</tr>
<tr>
<td>Harmonics</td>
<td>-70.0dBc (max.) @Po=400W</td>
</tr>
<tr>
<td>Spurious</td>
<td>-10.0dBc (max.) @Po=400W</td>
</tr>
<tr>
<td>Impedance</td>
<td>50Ω</td>
</tr>
<tr>
<td>Input Return Loss</td>
<td>15dB (min.) / VSWR : 1.43 (max.)</td>
</tr>
<tr>
<td>Output Return Loss</td>
<td>4.4dB (min.) / VSWR : 4.0 (max.)</td>
</tr>
<tr>
<td>Maximum RF Input Power</td>
<td>+3.0dBm</td>
</tr>
</tbody>
</table>

AC Supply Input
- Power Supply Voltage: AC400V ±15% / 3φ, 50/60Hz *Star Connection
- ST-BY Supply Voltage: AC200V ±15% / 1φ, 50/60Hz
- Consumption Power: 5kVA (max.)
- Operating Temperature: 0°C to +35°C
- Storage Temperature: -15°C to +65°C
- Connectors: RF - IN N - FEMALE
- RF - OUT N - FEMALE
- Size: P.A. UNIT: (W)480mm×(D)559.5mm×(H)221.5mm(EIA:5U)
P.S. UNIT: (W)480mm×(D)559.5mm×(H)221.5mm(EIA:5U)
- Weight: 80.0kg (max.)
- Cooling: Forced Air Cooling
- Protection Circuits: Over Temperature Protection

Power Supply Voltage Protection
- Output Over Power Protection(@550W)
- Output Over Reflection Power Protection(@300W)

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RF POWER AMPLIFIER

TYPICAL PERFORMANCE (Temp @+25°C) R&K-GA002M122-5757R

- **Single shot Input vs Output (20MHz)**
  - Frequency: 20MHz
  - Output Power: 200W peak
  - [Graph showing single shot input vs output at 20MHz]

- **Single shot Input vs Output (50MHz)**
  - Frequency: 50MHz
  - Output Power: 200W peak
  - [Graph showing single shot input vs output at 50MHz]

- **Single shot×3 Input vs Output (50MHz)**
  - Frequency: 50MHz
  - Output Power: 200W peak
  - [Graph showing single shot×3 input vs output at 50MHz]
Phase Flatness

- Frequency Range: 1MHz~1200MHz
- Phase offset=0°
- Electrical Delay=0nsec

Group Delay

- Frequency Range: 1MHz~1200MHz
- Electrical Delay=17.18nsec
TYPICAL PERFORMANCE (Temp @+25°C)  

■ Short-Term Amplitude Stability per each Packet during 1sec.

■ Short-Term Phase Stability per each Packet during 1sec.

■ RF Stability Output Power vs Time

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