### R&K-GA252M602-5454R

**POWER AMPLIFIER**

#### Application
- Ultra Wide Band Power Amplifier
- Broadband Frequency: 2500MHz ~ 6000MHz
- Output Power (CW): 250W (min.) @ 1dB Comp.
- With Output Circulator

#### Specifications @ +25°C
- Frequency Range: 2500MHz ~ 6000MHz
- Small Signal Gain: +54.0dB (min.)
- Gain Flatness: ±3.0dB (max.)
- Output Power (CW): 250W (min.) @ 1dB Comp.
- Operation Mode: Class A
- Harmonics: -20.0dBc (max.) @ Po=250W
- Spurious: -70.0dBc (max.) @ Po=250W
- Impedance: 50Ω
- Input VSWR: 2.0 (max.)
- Output VSWR: 2.0 (max.)
- Maximum RF Input Power: 0dBm
- AC Supply Input: AC200V ±15%／3φ, 50／60Hz, 8kVA
- 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)560mm×(D)853mm×(H)1544mm (Excluding Projection)
- Weight: 400.0kg (max.)
- Cooling: Forced Air Cooling
- Protection Circuits: Over Temperature Protection
- Power Supply Voltage Protection
- Other Functions: With Output Circulator
  - GP-IB(IEEE-488)
  - Safety Interlock (EMERGENCY)

#### Typical Performance (Temp @+25°C)

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Gain (dB)</th>
<th>VSWR</th>
<th>Power Linearity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2500</td>
<td>57.0</td>
<td>2.0</td>
<td>-20.0dBc</td>
</tr>
<tr>
<td>3000</td>
<td>56.5</td>
<td>2.0</td>
<td>-17.0dBc</td>
</tr>
<tr>
<td>3500</td>
<td>56.0</td>
<td>2.0</td>
<td>-14.0dBc</td>
</tr>
<tr>
<td>4000</td>
<td>55.5</td>
<td>2.0</td>
<td>-11.0dBc</td>
</tr>
<tr>
<td>4500</td>
<td>55.0</td>
<td>2.0</td>
<td>-8.0dBc</td>
</tr>
<tr>
<td>5000</td>
<td>54.5</td>
<td>2.0</td>
<td>-5.0dBc</td>
</tr>
<tr>
<td>5500</td>
<td>54.0</td>
<td>2.0</td>
<td>-2.0dBc</td>
</tr>
<tr>
<td>6000</td>
<td>53.5</td>
<td>2.0</td>
<td>+1.0dBc</td>
</tr>
</tbody>
</table>

#### Gain Flatness

- Small Signal Gain: ±3.0dB (max.)
- Gain Flatness: ±2.0dB (max.)

#### Output Harmonics

- Spurious: -70.0dBc (max.) @ Po=250W
- Harmonics: -20.0dBc (max.) @ Po=250W

#### Other Functions
- GP-IB(IEEE-488)
- Safety Interlock (EMERGENCY)