Renewal Model
A101K102-5050R

RF POWER AMPLIFIER

■ 750VA power consumption at 100W RF CW Output Power.
■ Broadband Frequency: 100kHz ~ 1000MHz
■ Output Power (CW): 100W (min.) @ 1dB Comp.

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

SPECIFICATIONS @ +25℃

Frequency Range: 100kHz ~ 1000MHz
Small Signal Gain: +50.0dB (min.)
Gain Flatness: ±3.0dB (max.)
Output Power (CW): 100W (min.) @ 1dB Comp.
Harmonics: -20.0dBc (max.) @ Po=100W
Spurious: -70.0dBc (max.) @ Po=100W
Impedance: 50Ω
Input Return Loss: 14.0dB (min.) / VSWR: 1.5 (max.)
Maximum RF Input Power: +3dBm
AC Supply Input: AC90V ~ 240V / 1φ, 50/60Hz, 750VA (typ.), 1kVA (max.) @ Po=100W
1.2kVA (max.) @ RF OFF
Operating Temperature: -10℃ to +40℃
Storage Temperature: -15℃ to +65℃
Connectors:
- RF-IN: N- FEMALE @ REAR PANEL
- RF-OUT: N- FEMALE @ REAR PANEL
Size: (W)430mm×(D)700mm×(H)177mm (EIA: 4U)
*Excluding Projection
Weight: 32.0kg (typ.)
Cooling: Forced Air Cooling
Protection Circuits:
- Over Temperature Protection
- Power Supply Voltage Protection
- Output Over Power Protection (@ 110W)
- Output Over Reflected Power Protection (@ 60W)
Remote Interface:
[Standard] GP-IB (IEEE-488)
[Optional] Ethernet, RS-232C
Other Function:
- Safety Interlock (EMERGENCY)

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TYPICAL PERFORMANCE (Temp @+25°C)

**Output Pulse Characteristics**

- **Frequency:** 1MHz, **Power Output:** 100W, **Pulse Width:** 1ms, **Duty Cycle:** 50%
  - **Pulse Rise**
  - **Pulse Fall**

- **Frequency:** 10MHz, **Power Output:** 100W, **Pulse Width:** 1ms, **Duty Cycle:** 50%
  - **Pulse Rise**
  - **Pulse Fall**

- **Frequency:** 100MHz, **Power Output:** 100W, **Pulse Width:** 1ms, **Duty Cycle:** 50%
  - **Pulse Rise**
  - **Pulse Fall**

- **Frequency:** 200MHz, **Power Output:** 100W, **Pulse Width:** 1ms, **Duty Cycle:** 50%
  - **Pulse Rise**
  - **Pulse Fall**

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**Output Pulse Characteristics**

- **X:** 200μs / DIV
  - **Y:** 20mV / DIV

- **X:** 200μs / DIV
  - **Y:** 20mV / DIV

- **X:** 200μs / DIV
  - **Y:** 20mV / DIV

- **X:** 200μs / DIV
  - **Y:** 20mV / DIV

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TYPICAL PERFORMANCE (Temp @+25℃)