R&K-A200BW0.4-8083RP

All Solid-State Amplifier
Broadband Frequency: 200MHz ± 0.2MHz
Output Power: 200kW (min.) @Peak
Building Block Construction
Very Small Size

APPLICATION

- Accelerator Application

SPECIFICATIONS @ +25°C

- Frequency Range: 200MHz ± 0.2MHz
- Small Signal Gain: +80.0dB (min.) @Po=200kW
- Gain Flatness: ± 0.5dB (max.)
- Output Power: 200kW (min.) @Peak
- Duty: 3.3% (max.)
- Pulse Width: 1.1ms
- Operation Mode: Class AB
- Pulse Rise / Fall Time: 300ns (max.)
- Maximum RF Input Power: +3dBm
- Harmonics: -30.dBc (max.) @Po=200kW
- Impedance: 50Ω
- Input VSWR: 1.5 (max.)
- Output VSWR: 2.0 (max.)
- AC Supply Input: AC200V ± 10% / 3φ, 50/60Hz, 20kVA
- Operating Temperature: −10°C to +35°C
- Storage Temperature: −15°C to +55°C
- Connectors: RF - IN, N - FEMALE, RF - OUT, 3-1/8” EIA Flange
- Size: (W)740mm x (D)1300mm x (H)2100mm
- Weight: 1500.0kg (max.)
- Cooling: Water Cooling and Forced Air Cooling
- Protection Circuits: Over Temperature Protection, Power Supply Voltage Protection, Output Over Power Protection, Output Over Reflection Power Protection
- Others: R&K Multi Monitoring System, With Output Circulator

HOW TO ORDER

Model Number: R&K-A200BW0.4-8083RP OP XX
Option: Ask

R&K reserves the right to make changes in the specifications of or discontinue products at any time without notice. R&K products shall not be used for or in connection with equipment that requires an extremely high level of reliability and safety such as aerospace uses or medical life support equipment. Further, R&K cannot export products to any country for use in military or defense applications.
HIGH POWER AMPLIFIER

TYPICAL PERFORMANCE (Temp @+25℃)

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**Input VSWR(199.8MHz)**

**Input VSWR(200MHz)**

**Input VSWR(200.2MHz)**

**Output VSWR**

**Harmonics**

**Output Power Linearity**

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TYPICAL PERFORMANCE (Temp @ +25°C)

Output Pulse Characteristics

- Duty: 3%
- Pulse Period: 20mS (50pps)
- Pulse Width: 600μS
- Blanking: 603μS

RF IN (Pulse)

Blanking

TTL: Hi
TTL: Lo

Output Pulse

- Frequency = 199.8MHz
- Po = 200kW
- X: 200μs / DIV  Y: 200mV / DIV

- Frequency = 200MHz
- Po = 200kW
- X: 200μs / DIV  Y: 200mV / DIV

- Frequency = 200.2MHz
- Po = 200kW
- X: 200μs / DIV  Y: 200mV / DIV

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- Po = 200kW
- X: 200ns / DIV  Y: 200mV / DIV

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