

RF PULSE POWER AMPLIFIER



R&K-CA200BW0.4-2267R(P)



- All Solid State RF Pulse Power Amplifier
- Frequency Range : 200MHz±0.2MHz
- Output Power : 5kW, Pulse
- ≥200kW Output can be achieved by x48 ea.
- Optional Built In Phase/Level Stabilizer !
- Optional Gain for Optimum Performance !
- Very Low Phase Noise $\leq -146\text{dBm/Hz}@G=+22\text{dB}$

SPECIFICATIONS @ +25°C

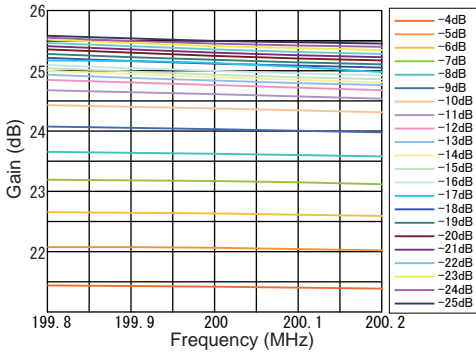
| | |
|-------------------|--|
| Frequency Range | : 200MHz±0.2MHz |
| Small Signal Gain | : +22dB @Po=5kW Gain = T.B.D. |
| Gain Flatness | : ±0.3dB(max.) @Po=5kW |
| Output Power | : >5kW(Peak.) ※Pulse mode Pulse Width : ≤1.1mS Duty : ≤3.3% |
| Input VSWR | : 1.5:1(max.) |
| Output VSWR | : 1.5:1(max.) |
| AC Supply Input | : AC200V ±15% 1 φ 50/60Hz Ave. 700W(max.) @Po=5kW Peak 2.1kW(max.) @Po=5kW |
| Connectors | : Input SMA-Female Output N-Female Blanking BNC-Female |
| Size | : (W)120mm×(D)800mm×(H)250mm |
| Cooling | : Forced Air Cooling |

HOW TO ORDER

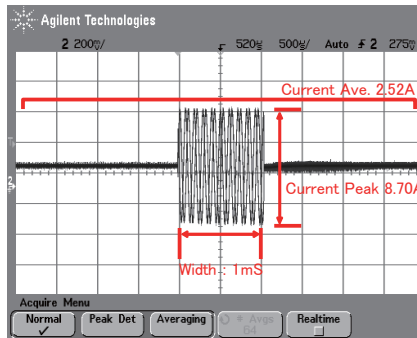
Model Name R&K-CA200BW0.4-2267R(P) No Option

TYPICAL PERFORMANCE (Temp @+25°C)

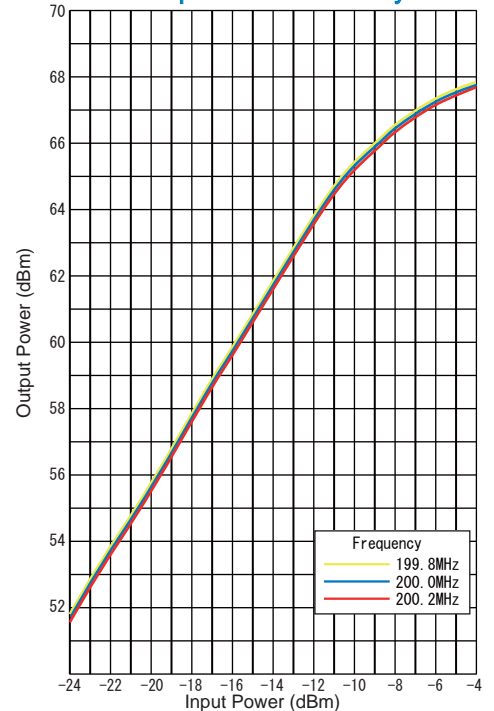
Gain Flatness



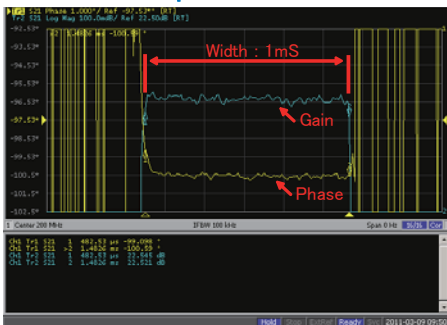
AC Current



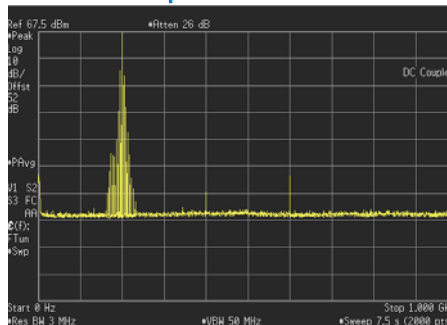
Output Power Linearity



Output Phase



Output Harmonics



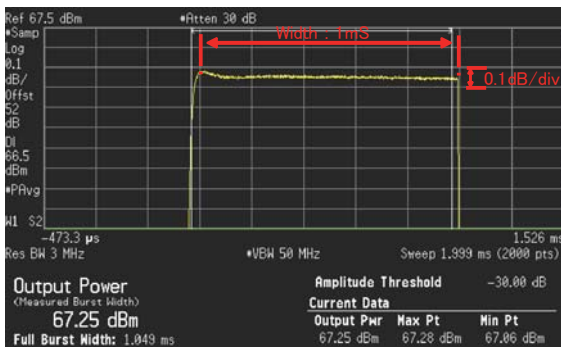
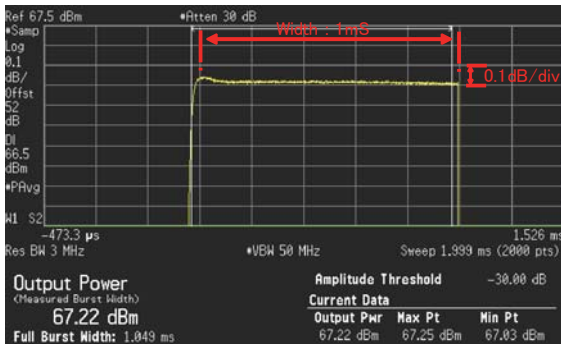
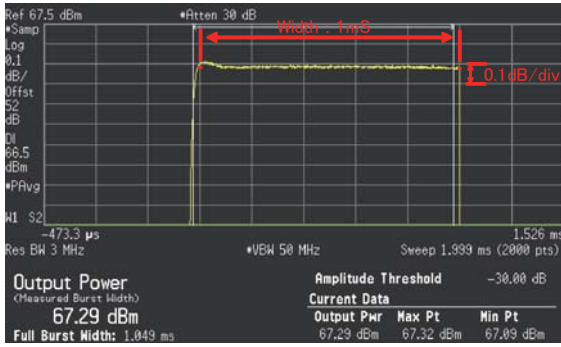
Input Signal : Pulse Width 1.05mS / Pulse Period 33.3mS (duty 3.15%) / Gate_Blanking : 1.08mS
Structure : RF Switch(SW050) + Driver(ALM0105-4748-SMA) + Final(CA200BW0.4-2267R)

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.

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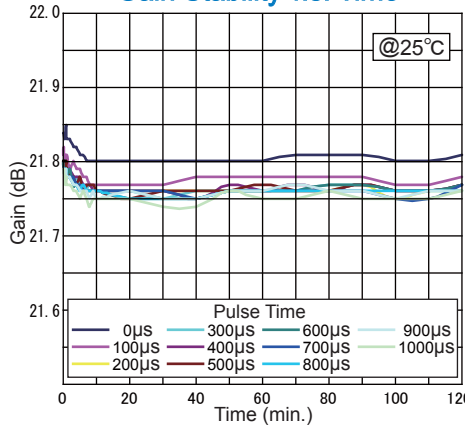
Output RF Pulse



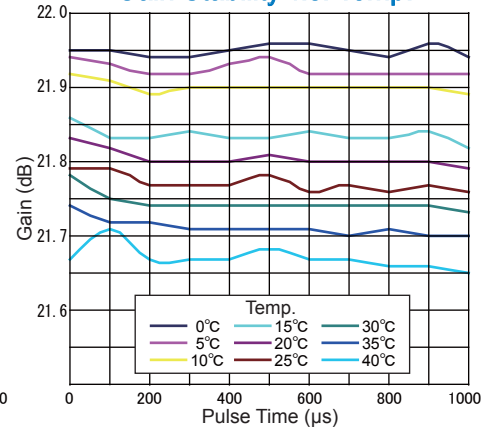
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Gain Stability

Gain Stability v.s. Time

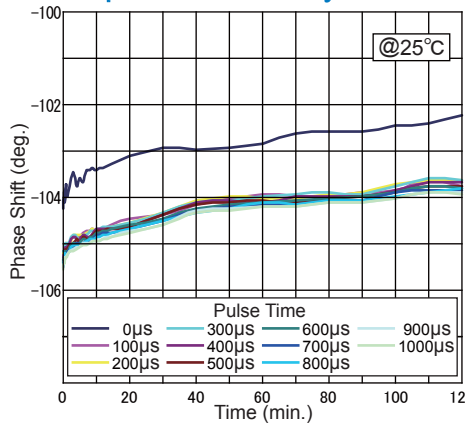


Gain Stability v.s. Temp.

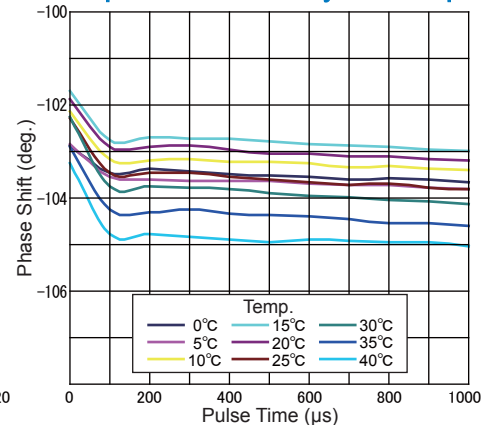


Output Phase Stability

Output Phase Stability v.s. Time

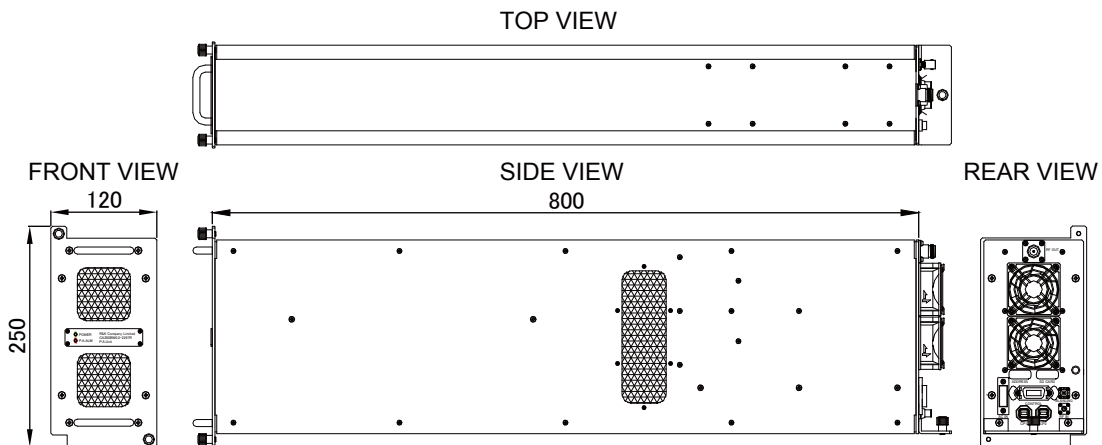


Output Phase Stability v.s. Temp.



OUTLINE DRAWING

※ IN MILLIMETERS



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