

# PULSED RF POWER AMPLIFIER



## R&K-A100BW2-7575RP



- All Solid-State Amplifier
- Frequency Range: 100MHz ± 1MHz
- Output Power : 30kW (min.) @Peak (Pulse)

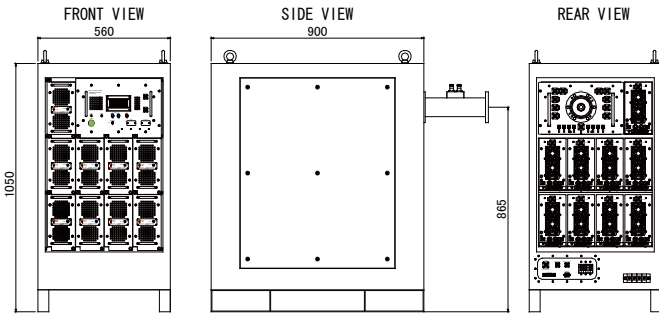
### SPECIFICATIONS @ +25°C

Frequency Range	: 100MHz ± 1MHz
Gain	: +75.0dB (min.) @Po=30kW
Gain Flatness	: ±0.5dB (max.) @Po=30kW
Output Power	: 30kW (min.) @Peak Pulse Width: 1.2ms Duty: 0.5%
Operation Mode	: Class AB
Harmonics	: -30.0dBc (max.) @Po=30kW
Impedance	: 50Ω
Input VSWR	: 1.5 (max.)
Output VSWR	: 2.0 (max.)
Maximum RF Input Power	: +5.0dBm
AC Supply Input	: AC200V ± 10% / 3φ 50/60Hz Ave. 1.5kVA(max.) @Po=30kW Peak 3.0kVA(max.) @Po=30kW

Operating Temperature	: 0°C to +35°C
Storage Temperature	: -15°C to +55°C
Connectors	: RF - IN N - FEMALE RF - OUT WX-77D BLANKING IN BNC - FEMALE
Size	: (W)560mm × (D)900mm × (H)1050mm
Weight	: 300.0kg (max.)
Cooling	: Forced Air Cooling
Protection Circuits	: Over Temperature Protection Power Supply Voltage Protection Output Over Power Protection Output Over Reflection Power Protection With Output Circulator

### OUTLINE DRAWING

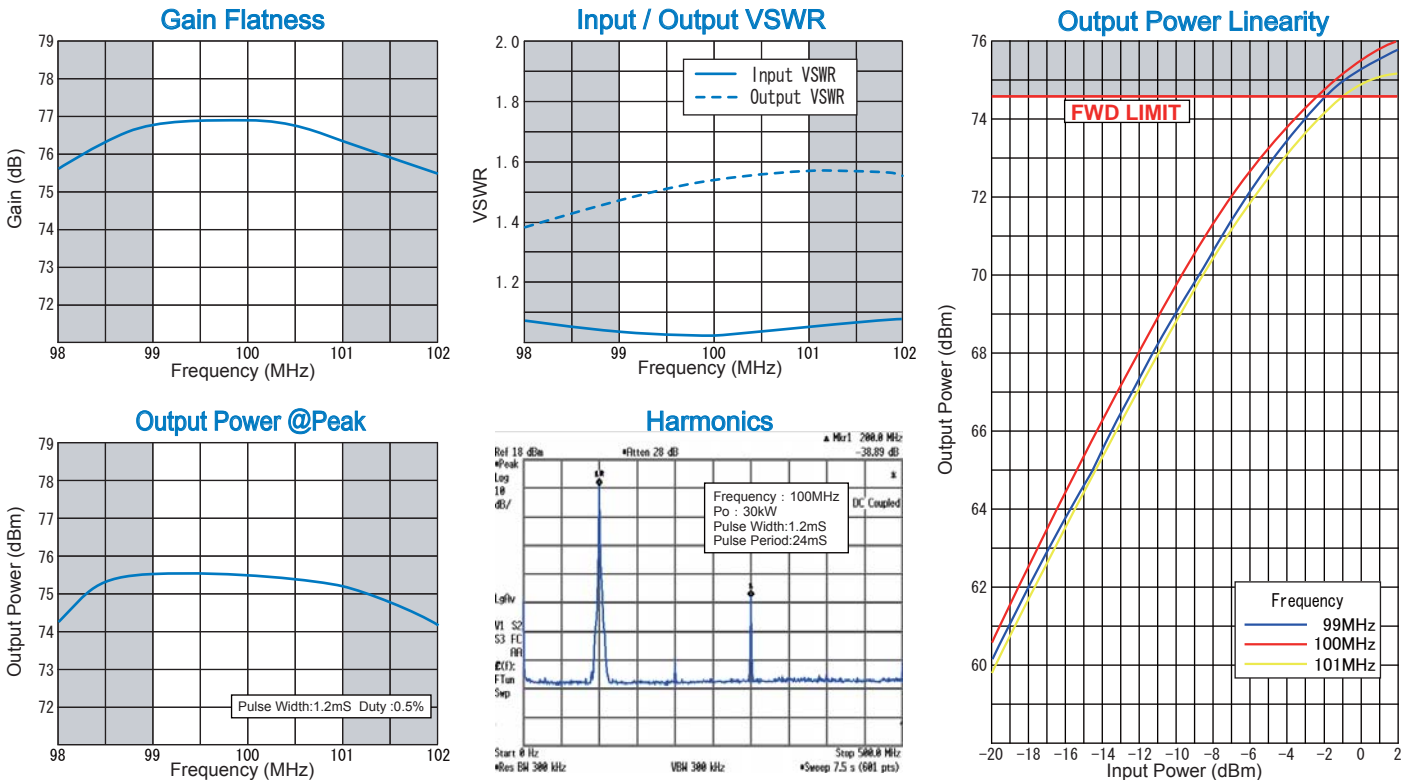
※ IN MILLIMETERS



### HOW TO ORDER

Model Name R&K-A100BW2-7575RP OP XX Option: Ask

### TYPICAL PERFORMANCE (Temp @+25°C)



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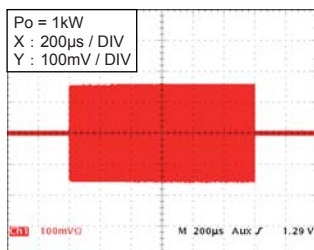
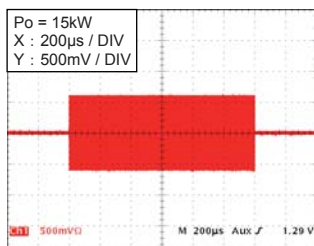
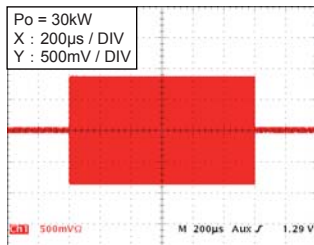
## TYPICAL PERFORMANCE (Temp @+25°C)

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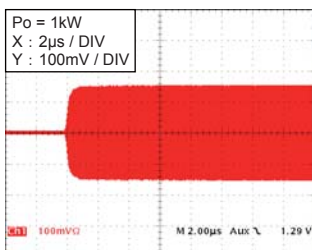
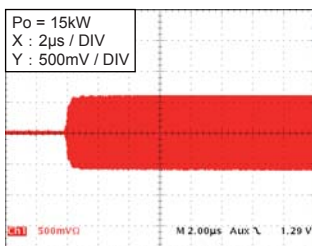
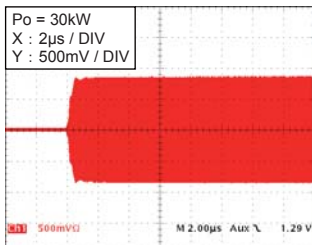
### Output Pulse Characteristics

#### Frequency: 99MHz

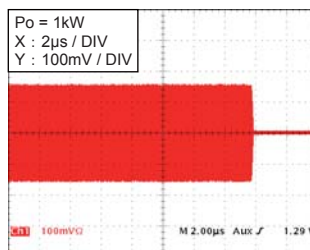
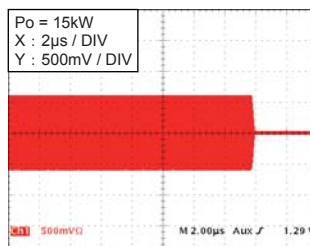
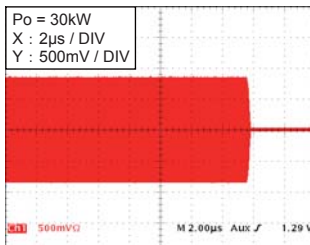
##### Output Pulse



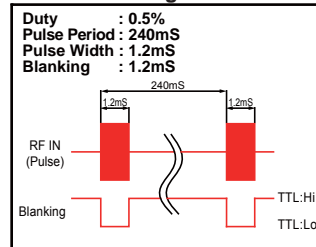
##### Pulse Rise



##### Pulse Fall

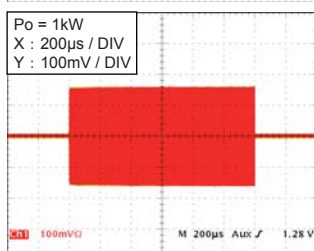
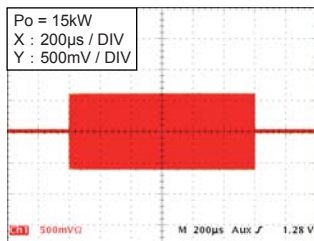
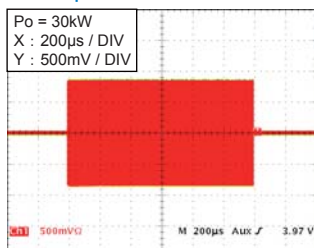


#### Measuring Points

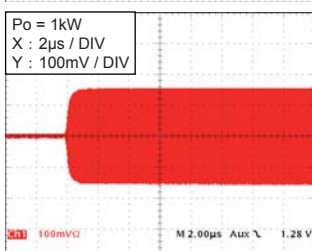
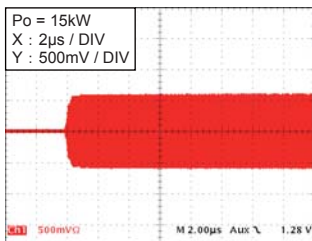
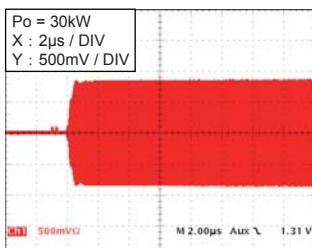


#### Frequency: 100MHz

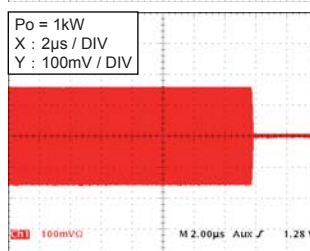
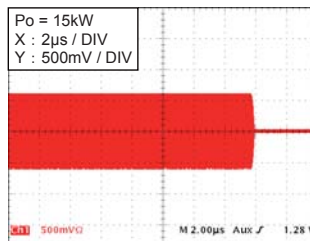
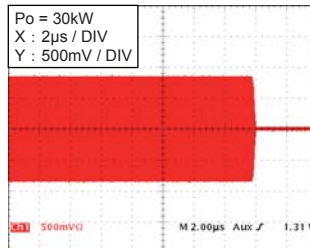
##### Output Pulse



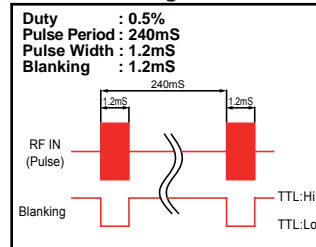
##### Pulse Rise



##### Pulse Fall



#### Measuring Points



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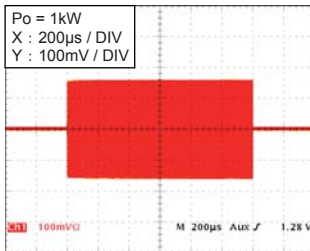
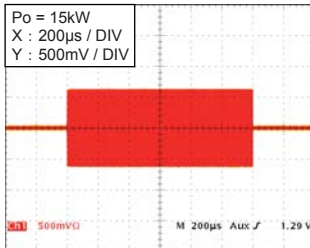
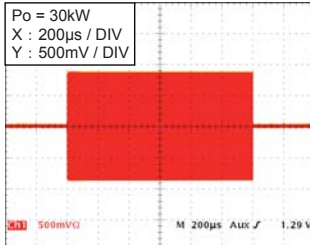
## TYPICAL PERFORMANCE (Temp @+25°C)

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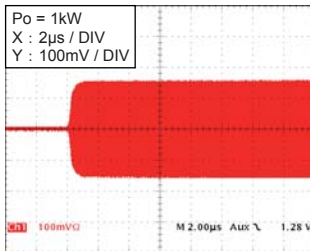
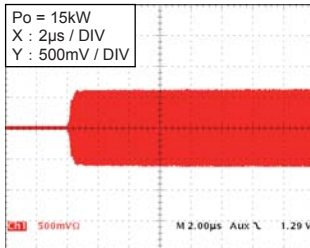
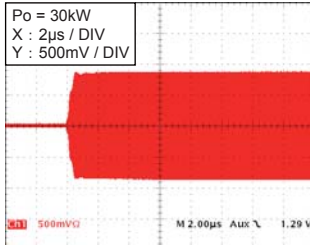
### Output Pulse Characteristics

• Frequency: 101MHz

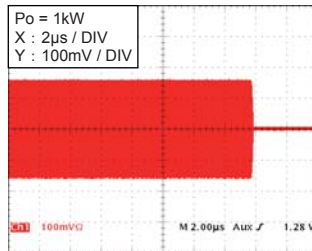
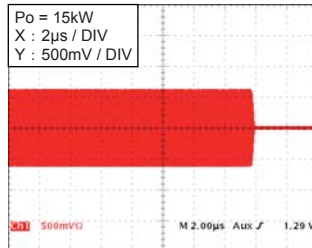
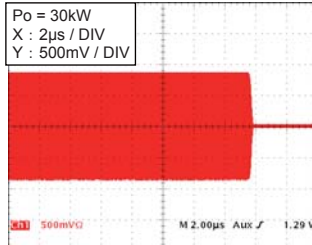
• Output Pulse



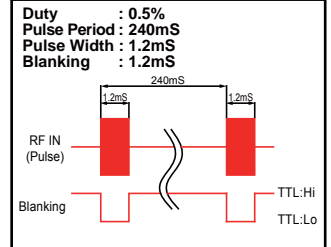
• Pulse Rise



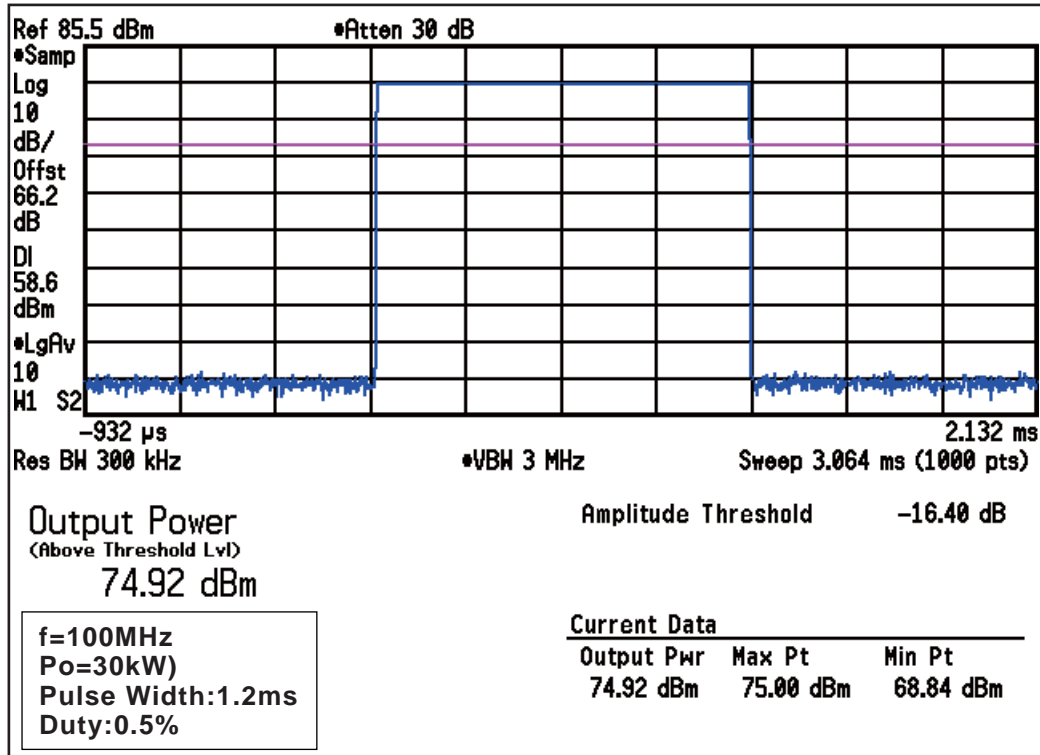
• Pulse Fall



Measuring Points



### Pulse ON/OFF Ratio



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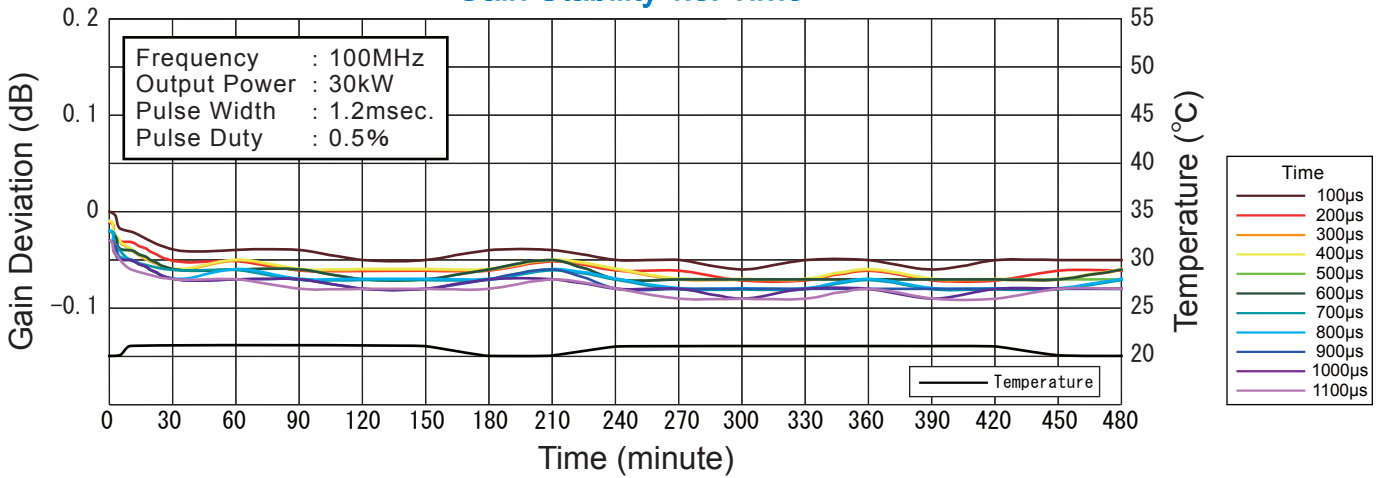
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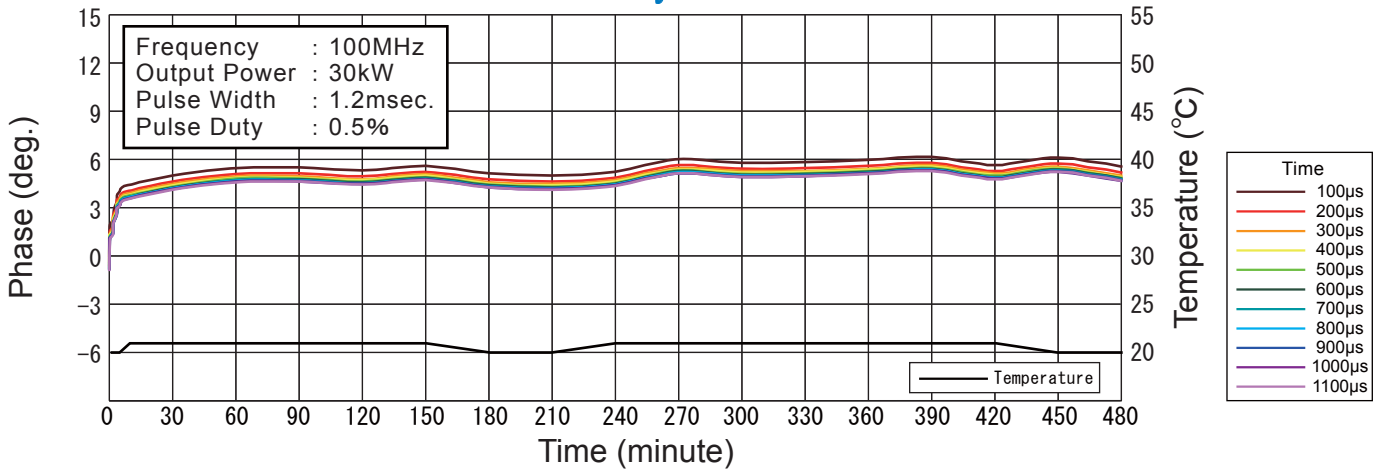
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### Gain / Phase Stability

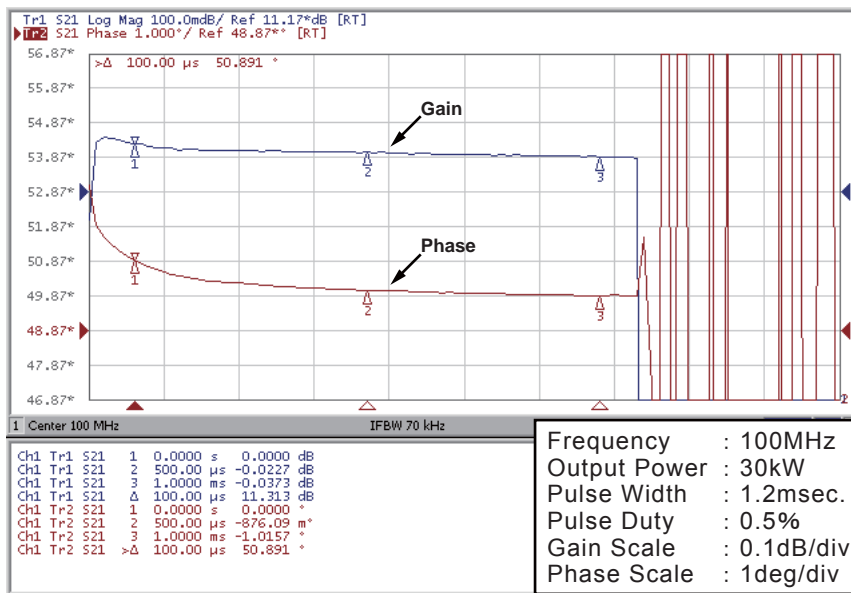
#### Gain Stability v.s. Time



#### Phase Stability v.s. Time



#### Gain / Phase Stability



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