R&K Company Limited

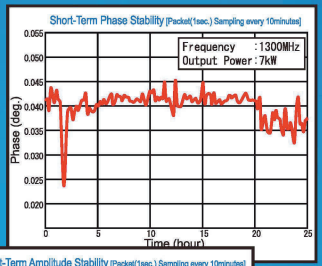
High Power RF & Microwave Amplifier

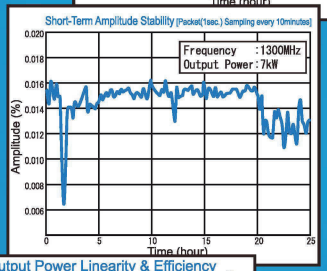
—for Particle Accelerators—

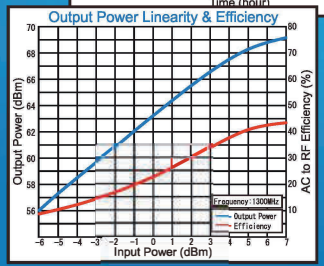
R&K provides the world's most reliable high performance solid-state RF Power Amplifiers.

1300MHz 7kW CW All Solid-State RF Amplifier

Model : CA1300BW1-6068R-SL







SPECIFICATIONS @+25℃

Frequency Range	: 1300MHz±0.5MHz (Standard Freq.) 14XXMHz±0.5MHz (Optional Freq.) 1500MHz±0.5MHz (Optional Freq.)
Small Signal Gain	: +60.0dB (min.)
Output Power (CW)	: 7kW (min.) @1dB Comp.
Amplitude Flatness	: 5% (max.) @1300MHz±100kHz
Phase Linearity	: 5deg (max.) @1300MHz±100kHz
Delay	: 300ns (max.)
Phase Variation	: 10deg (max.) @Po=300W~7kW
Efficiency	: 40% (min.) @Po=7kW
AC to RF Efficiency	
・Optimum Efficiency Performance	>42.1% at Vdd +42VDC Control
・Optimum P@-1dB Performance	>41.2% at Vdd +45VDC Control
Impedance	: 50Ω
AC Supply Input	: AC480V±5%／3φ, 60Hz AC120V±5%／1φ, 60Hz
Consumption Power	: 17.5kVA(max.)
Connectors	: RF - IN N - FEMALE RF - OUT WR650
Size	: (W)762mm×(D)1270mm×(H)1688.5mm (Excluding Projection)
Weight	: 740kg (typ.)
Cooling	: Forced Air Cooling and Water Cooling
Protection Circuits (All not listed)	: Over Temperature Protection Power Supply Voltage Protection Output Over Power Protection
Other Function	: With Output Circulator (each final device)

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