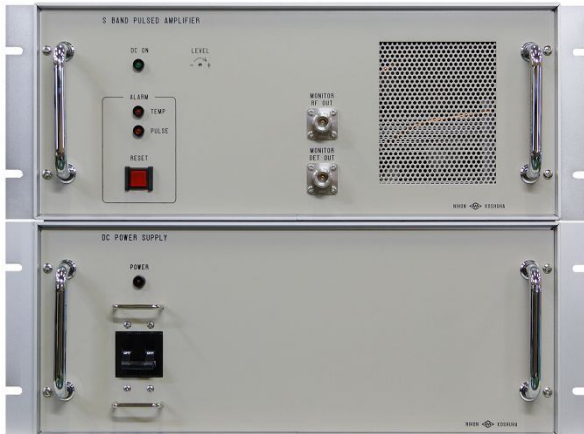
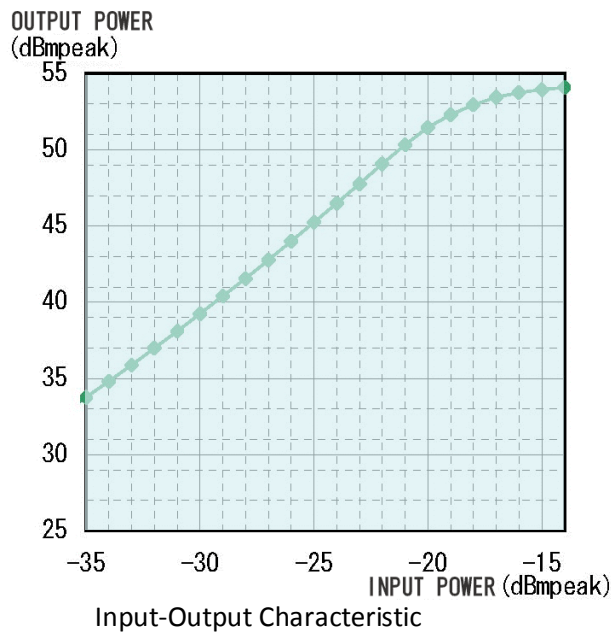


# Solid State Power Amplifier



Model: PRFA-201G



## S-Band 200W Linear Amplifier

The PRFA-S201G Amplifier is designed for high-power klystron drivers for particle accelerator.

The output power is 200W, and its frequency is 2856MHz.

### Phase Shift Angle

Flat top part in RF pulse :  $\pm 3$ deg.

Change of each pulse :  $\pm 1$ deg.

### Electrical Specifications

Frequency	2856MHz $\pm$ 2MHz
Input Power	-17dBm <sub>peak</sub>
Output Power	+53dBm <sub>peak</sub> min.
RF Pulse width	$\sim 20 \mu s$
RF Pulse Repetition Rate	1 – 200pps
Rise Time/Fall Time	100nsec max.
Load Condition	No degradation in output power
Cooling	Forced Air-cooling
Line Power	200V AC
Dimensions	W480 $\times$ D450 $\times$ H177

### LINE-UP

Frequency	Peak Power	Pulse width	Pulse Rep.	Stability	Phase Shift Angle	Cooling
238MHz	3.5kW $\times$ 4	100 $\mu s$	60/120pps	—	—	Water
476MHz	2kW	50 $\mu s$	10 - 120pps	—	—	Water
714MHz	15kW	25 $\mu s$	10pps	$\pm 1\%$	$\pm 1$ deg	Forced Air
972MHz	70W	50 - 700 $\mu s$	Under 50pps	$\pm 1\%$	$\pm 1.5$ deg	Peltier
1300MHz	600W(CW/Pulse)	20 $\mu s$ - CW	1000pps - CW	—	—	Water
1428MHz	2.5kW $\times$ 4	20 $\mu s$	60pps	$\pm 0.2\%$	$\pm 0.2$ deg	Water
2856MHz	250W	1 - 15 $\mu s$	1 - 550pps	—	—	Forced Air
2856MHz	400W	20 - 30 $\mu s$	1 – 12.5pps	3%	$\pm 1$ deg	Forced Air
2856MHz	1.2kW	1 - 5 $\mu s$	1 - 100pps	3%	$\pm 3$ deg	Forced Air
5712MHz	500W	1 - 5 $\mu s$	1 - 60pps	3%	$\pm 3$ deg	Water
5712MHz	600W	2 - 5 $\mu s$	1 - 50pps	3%	$\pm 3$ deg	Forced Air



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