

Ka-band 300W pulse Solid-state Power Amplifier For Satellite Communication



Operating Frequency	Ka-band (2GHz bandwidth)
Output power	$\geq 300\text{W}$ (55dBm)
Saturation Gain	$\geq 50\text{dB}$
Gain Flatness	$\leq \pm 2\text{dB}$
Input / Output VSWR	$\leq 1.5: 1$
Spurious Suppression	$\leq -55\text{dBc}$
Pulse Width	1us--1ms
Duty Cycle	$\leq 50\%$
Rising Edge / Falling Edge	$\leq 30\text{ns}$
Pulse Waveform Drop	$\leq 10\%$
Power Supply Voltage	270V or 28VDC
Power Consumption	$\leq 1\text{KW}$
Cooling Method	Forced Air Cooling
RF Input Interface	2.92mm-K
RF Output Interface	BJ320
Operating Temperature	$-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
Storage Temperature	$-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Vibration and Shock	Aircraft

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