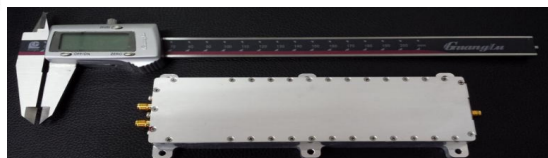


X-band 50W pulse Continuous Wave Solid-state Power Amplifier For Satellite Communication



Operating Frequency	X-band (4GHz bandwidth)
Output power	$\geq 50\text{W}$ (47dBm)
Gain	$\geq 50\text{dB}$
Gain Flatness	$\leq \pm 2\text{dB}$
Input / Output VSWR	$\leq 1.5: 1$
Spurious Suppression	$\leq -60\text{dBc}$
Pulse Width	1us--1ms
Duty Cycle	$\leq 50\%$
Rising Edge / Falling Edge	$\leq 30\text{ns}$
Pulse Top Drop	$\leq 10\%$
Power Supply Voltage	28VDC
Power Consumption	$\leq 120\text{W}$
Cooling Method	Conduction Cooling
RF Input Interface	SMA-K
RF Output Interface	SMA-K
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	Missile

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