

PSSPA09G10-50



Features

- Frequency Range 9.7 ~10GHz
- 50W pulsed output power
- 25KHz(40us period) / 1.2% duty cycle pulsed operation
- 200ns pulse delay
- 20ns rising / falling time
- -167dBm/Hz output noise @ pulse off state
- 90° hybrid combined GaAsFET design

Applications

- X-band radar transmitters

Specifications

Parameters	Specification
RF Output Frequency Range	9.7~10GHz
RF Output Pulse Peak Power	+46.7dBm Min. +48.5dBm Max.
RF Pulse Peak power Flatness VS. Time	±0.15dB Max. The minimum level of pulse peak output power of time axis should meet +46.7dBm
RF Pulse Small Signal Gain	45 ± 5.0 dB Max.
RF Pulse Small Signal Gain Flatness VS. Frequency	±2.0 dB Max.
RF Output Pulse Width	Input pulse width ±15nsec at 3dB point
Pulse Rise & Fall Time	20.0nsec Max.
Pulse Jitters	5.0nsec Max.
RF Output Pulse Repetition Frequency	22.222KHz ~ 25.0KHz
Output Noise Level	-167dBm/Hz
Noise Figure	12.0dB Max.
Delay before SSPA operational after Enable	200nsec Max.
Non Harmonic Spurious	-60 dBc Max.
IN/OUT VSWR	1.5 : 1 Max.
Power Consumption	12.0W Max. at 20~32VDC
Required Input Current	0.6Amps peak Max. 0.4Amps Avg. at 28VDC
Isolator	For Output mismatch protection, the isolator should be equipped .
RF Output Pulse Spectrum	The first side lobe should be 13.2 ±2dB lower than main lobe, and the center frequency of spectrum should be higher than any other frequency.
RF In(J1)/Output(J2) Connector	SMA female
Enable Signal(J3)	SMA female
DAMM3W3P Pin Connection	A1 : DC Power(+28VDC), A2 : -, A3 : GND