



8.5-10.5GHz 100W PULSE SOLID STATE HIGH POWER AMPLIFIER

LPA08105050M

FEATURES

- Wide Bandwidth
- Low Power Consumption
- Low Noise Figure
- Miniature Sizes, Field Removable connector
- Compact/Rugged Thin-Film Construction

APPLICATIONS

- Microwave Radio & VSAT
- Military & Space
- Test Instrumentation
- Fiber Optics

ELECTRICAL SPECIFICATIONS@25°C:

Parameter	Min	Typical	Max	Units
Frequency Range	8.5		10.5	GHz
Gain	50			dB
Gain Flatness				dB
Peak Power	100			Watt
Duty Cycle			20	%
Pulse Period		10		KHz
RF Pulse	1.rise time 40ns; 2.delay time :30ns			
Power supply enable				
Pulse Width	1-250us @ 20%DC, 1-500us @10DC			
Spurious			-60	dBc
Harmonics			-25	dBc
VSWR				Ratio

Note:

- 1.Idq:28V@1A,Id:28V @12A (Pulse Width: 100us @ 10%DC)
- 2.Harmonics: -25dbc(reach -40dbc if use filter)

ENVIRONMENTAL RATINGS:

Parameter	Min	Typical	Max	Units
Input power Protection				dBm
Operating Temperature	-20		+50	°C
Non-operating Temperature	-40		+85	°C
Relative humidity (non-condensing)		95		%
Altitude (MIL-STD-810F)	10000		30000	feet
Shock / Vibration (MIL-STD-810F)		Airbone		



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MECHANICAL SPECIFICATIONS:

Parameter	Value	Limits	Units
Dimensions	120*90*45		Milimeter
Weight	1		Kg
RF Connectors Input	SMA-F		
RF Connectors output	N-F		
Impedance	50		ohms

OUTLINE DRAWING(mm):

