

The LPA001 is a high power amplifier capable of 100W output across the frequency range of 20MHz to 500MHz. The amplifier operates nominally from 28V DC. The amplifiers applications include, test instrumentation and wideband broadcast use with appropriate filters.



Specification:

Parameter

Limits

Electrical:

Frequency Range	20 – 500MHz
Gain.	>50dB
Gain Variation	+/-2dB
IM3D at 100W PEP	-30dBc Typical. (Below 100W PEP level)
Input return loss	>10dB. (VSWR better than 2.0:1)
Output Return Loss	>10dB. (VSWR better than 2.0:1)
Output Peak CW Power	> 100W (+50dBm)
	Max power 20MHz >60W
	Max Power 30MHz >80W
	Max Power 40-500MHz >100W
Voltage	24 – 32 DC (Performance characterised @ 28V DC)
Current Quiescent	1.5A.
Current Max	7.5A (@ 100w Output)
Health Monitoring	Internal monitoring and LED Alarm
Temp Alarm	Available on the DC/Alarm/Ctrl Connector

Mechanical:

RF Connectors.	SMA type Female
DC/Alarms	DB 9 way male.
Case Size. (Masthead)	150 x 100 x 23mm (Excluding Connectors)
Weight:	1kg
Material	Aluminium Main housing with aluminium cover

Environmental:

Temperature:	0 to +50°C
Weatherproofing	Indoor use only.