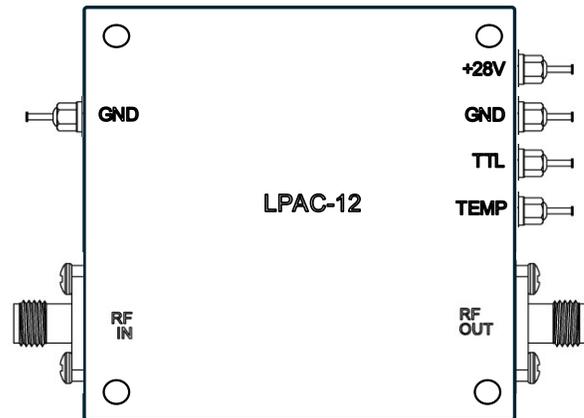


LPAC-12

C-Band 12W Linear Power Amplifier

Product Overview

The LPAC-12 is a C-band linear power amplifier. The amplifier operates from a single +28V input supply and features an external enable signal, measured baseplate temperature, and automatic thermal management to protect from over-temperature conditions. Other frequencies and power levels available by request.



Actual unit size. See Outline Drawing for details.

Specification	Min	Typ	Max	Unit	Notes
Frequency Range	4.5		6.0	GHz	
Small Signal Gain	25	30		dB	
Gain Variation	±1		±2	dB	
P _{1dB}	37	39		dBm	
P _{SAT}	40	41.5		dBm	
O _{IP3}		47		dBm	
RF Input			15	dBm	
Input Return Loss	10	15		dB	
Output Return Loss		15		dB	
Operating Voltage	26		36	V	
Input Current		0.85		A	39 dBm out, 28V in
Temp Sensor Output (V)	-0.05		5.05	V	$V_{OUT}=0.5V+(10mV/^{\circ}C \times T_{BASEPLATE})$
TTL RF ON	2.5V			V	
TTL RF OFF			1.0	V	
Operating temperature	-40		85	°C	Must be operated with heatsink
Storage temperature	-55		125	°C	
Thermal Shutdown	95			°C	