



# AMP5006P SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

Class AB linear LDMOS design  
 High power single frequency  
 Suitable for linear pulse applications  
 Built-in monitoring and protection circuits  
 High reliability and ruggedness

## ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	5.712 GHz	
Power Output Peak Pulse	500 Watt Min	
Power Output @ P1dB	400 Watt Typ	
Dynamic Range	50 dB Min	
Pulse Width	1.5 - 4.0 $\mu$ Sec	
Duty Cycle	0.1 % Max	PRF = 60 Hz
Rise / Fall time	100 nSec Max	
Output pulse amplitude / Phase Stability	0.04 % / 0.09° Max	
Phase shifting within output pulse	$\pm 1^\circ$ Max	
Output pulse jitter	$\pm 5$ nSec Max	
Power Gain	57 dB Min	Optional: 10dB gain adjust
Input Return Loss	10 dB Min	Relative to 50 $\Omega$
Harmonics	>30 dBc	At rated Pout
Non Harmonics Spurious	>60 dBc	
Operating Voltage	24 VDC	
Current Consumption	70 Amp Typ	Peak current @ rated Pout
Max Input Power	+8 dBm	Without damage
Load VSWR Protection	$\infty : 1$	Output Isolator

## ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +75 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	400 x 370 x 32 mm	Excluding Connectors
Weight	TBD g.	Typical Weight
RF Connectors In/Out	SMA F / N-Type F	
DC Power / Interface Connector	9-Pin Hybrid D-Sub	
Cooling	External Heatsink	Forced air required

