



# AMP3047P SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

Class AB linear LDMOS design  
 Instantaneous bandwidth  
 Suitable High power TACAN pulse standards  
 Built-in protection circuits  
 High reliability and ruggedness

## ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency	1025 - 1150 MHz	
Power Output	2000 Watt Min	CW
Power Gain	63 dB Min	
Power Gain Flatness	1.5 dB p-p	
Input Return Loss	-14 dB Min	Relative to 50 Ohm
Duty Cycle ( $\delta$ )	5%	
Pulse Width (tp)	5 $\mu$ Sec	
Pulse Rise / Fall Time	100 nSec	
Pulse Droop	1 dB Max	5 $\mu$ S pulse width
Noise Mute Level	-150 dB/Hz Typ	
Noise Figure	20 dB Max	
Class of Operation	AB/C	LDMOS transistors design
Operating Voltage	50 VDC Nom	
Current Consumption	4.5 Amp Ave. Max	At rated Pout
Harmonics	>40 dBc	
Max Input Power	+10 dBm	
Load VSWR Protection	$\infty$ : 1	

## ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Note
Operating Case Temperature	0 to + 50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	0 to 95 %	Non Condensation

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	420 x 280 x 41 mm	Excluding Heatsink
Weight	TBD	
RF Connectors In/Out	SMA female / Type N female	
DC Power / Interface Connector	7 Pin Hybrid D-Sub	
Cooling	External Heatsink	Forced air required @ 2% DS

