

## AMP2043

### SOLID STATE HIGH POWER AMPLIFIER

#### FEATURES

Class AB linear GaN design  
 Instantaneous wide bandwidth  
 Suitable for all single channel modulations standards  
 Smallest form factor & lightest weight  
 Built-in protection circuits  
 High reliability and ruggedness



#### ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	2.0 - 6.0 GHz	
Power Output	100 Watt Min	
Power Output @ P1dB	40 Watt Typ	CW
Power Gain	50 dB Min	
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Input / Output Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	40 dBm/Tone, $\Delta = 1$ MHz
Harmonics	-20 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	28 - 30 VDC	
Current Consumption	24 Amp Max	At rated Pout
Max Input Power	+8 dBm	<10 Sec without damage
Load VSWR Protection	5 : 1	<1 minute at rated Pout
Turn On / Off Speed	5 $\mu$ Sec Max	

#### ENVIRONMENTAL CHARACTERISTICS

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

#### MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	285 x 125 x 27 mm	Excluding Connectors
Weight	2.15 kg.	
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	7-Pin Hybrid D-Sub	
Cooling	External Heatsink	Forced air required

