

AMP5024 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linear LDMOS design
 Instantaneous wide bandwidth
 Suitable for all modulations standards
 Built-in monitoring and protection circuits
 High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	704 ± 10 MHz Min	
Power Output @ P1dB	250 Watt Min	CW
Power Gain	54 dB Min	
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc Typ	45dBm/Tone, Δ = 1MHz
Harmonics	>30dBc	At rated Pout
Non Harmonics Spurious	>60 dBc	
Operating Voltage	32 VDC	
Current Consumption	22 Amp Max	At rated Pout
Max Input Power	+8 dBm	Without damage
Load VSWR Protection	∞ : 1 Min	
Turn On / Off Speed	5 μSec 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	Standard Module: 200 x 120 x 28mm Options 101/102: 240 x 120 x 28mm	Excluding Connectors
Weight	750 gr.	Typical Weight
RF Connectors In/Out	SMA-F / Type-N	
DC Power / Interface Connector	7-Pin Hybrid D-Sub	
Cooling	External Heatsink	Forced air required

D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	FWD PWR INDICATOR	Option-101 - Analog Forward Power Indicator
2	REV PWR INDICATOR	Option-102 - Analog Reverse Power Indicator
3	CURRENT SENSOR	I _D @ 20mV/100mA Typ
4	TEMP SENSOR	V _T @10mV/°C + 500mV Typ
5	SHUTDOWN	TTL
A1	VDD	32VDC
A2	GND	Ground

AMP5024 SOLID STATE HIGH POWER AMPLIFIER

OUTLINE DRAWING - OPT101 & OPT102

