

# AMP1053-1Z

## SOLID STATE HIGH POWER AMPLIFIER

### FEATURES

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



### ELECTRICAL SPECIFICATIONS: 50Ω, 25°

Parameter	Specification	Notes
Operating Frequency Range	1 - 32 MHz Min	
Power Output @ Psat	200 Watt Min	CW
Power Gain	20 - 30 dB Min	
Power Gain Flatness	2.0 dB p-p Max	
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	<-30 dBc Typ	43dBm/Tone, Δ = 1MHz
Harmonics	2 <sup>nd</sup> <-20dBc, 3 <sup>rd</sup> <-12dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	32 VDC Nom	
Current Consumption	14 Amp Max	At rated Pout
Input Power Protection	+33 dBm Max	
Load VSWR Protection	∞ : 1	<1 minute at rated Pout
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	162 x 106 x 28 mm	Excluding connectors
Weight	700 gr.	
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	N/A
2	VVA	N/A
3	CURRENT SENSOR	I <sub>D</sub> @20mV/100mA Typ
4	TEMP SENSOR	V <sub>T</sub> @10mV/°C + 500mV Typ
5	SHUTDOWN	TTL
A1	VDD	32VDC
A2	GND	Ground

## OUTLINE DRAWING

