



AMP5012L SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linearized LDMOS design
Multi-channel W-CDMA UMTS applications
Suitable for all digital modulations standards
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	2110 - 2170 MHz	
Power Output Psat	50 Watt Min	CW
Power Output W-CDMA	10 Watt Min	3 GPP
Small Signal Gain Range	44 dB Min	
Input Power Dynamic Range	-24 to -4 dBm	
Power Gain Flatness	1.0 dB p-p Max	
Input Return Loss	10 dB Min	Relative to 50 Ohm
Harmonics	>30 dBc Typ	At rated Pout
Non Harmonics Spurious	>60 dBc	
Operating Voltage	27 - 29 VDC	
Current Consumption	4 Amp Max	At rated W- CDMA Pout
Max Input Power	+8 dBm	Without damage
Load VSWR Protection	$\infty : 1$	
Turn On / Off Speed	5 μ Sec Max	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-10 to +60 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	139.7 x 114.3 x 27 mm	Excluding Connectors
Weight	400 g.	Typical Weight
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	9-Pin D-Sub	
Cooling	External Heatsink	Forced air required

D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	FWD	Analog - 200mV/dB
2	REV	Analog - 200mV/dB
3	ALC On/Off	ALC Off: TTL High (5V)
4	ALC Level	26 - 40dBm @ 0-5V (250mV/dB)
5	SHUTDOWN	TTL
6, 7	VDD	28VDC
8, 9	GND	Ground
LED	LED Indicator	LED On when ALC is leveling

OUTLINE DRAWING

