AMP6036
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

V-Band high power CW applications
High power linear GaN design
Outdoor system
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	43.0 - 43.5 GHz	Nominal
Power Output @ Psat	100 Watt Min	CW
Power Gain	65 dB Min	
Gain Adjustment Range	20 dB Min	0.1dB steps (goal)
Input / Output VSWR	1.35 : 1 Min	Relative to 50 Ohm
Group Delay	0.01nSec/MHz linear Max	TBD
AM/PM Conversion	6 Deg./dB Max @ rated Pout	TBD
Phase Noise	Better than IESS-308/309 mask	TBD
3rd Order Intermodulation	-18 dBc Max	@ 43dBm/Tone
Harmonics	-30 dBc Max	At rated output
Spurious	-60 dBc Max	Non-harmonic
Operating Voltage	100 - 240 VAC, 47-53 Hz	
Power Consumption	1200 Watt Max	At rated output
Input Power Protection	+3 dBm Max	<10 Sec without damage
Load VSWR Protection	∞ : 1	Output isolator

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +60°C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 100 %	With-condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	423 x 444 x 580 mm	10U without weatherization
Weight	60 Kg. Typical weight	Without weatherization
RF Connectors In / Out / RF Monitor	WR-22G / 2.54 mm	Front or Rear
AC Power	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Internal heat exchanger water cooling	Closed system
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface	

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OUTLINE DRAWING