

Compact C- Band 5 kW / High Power Amplifier

Model – HP5.45.9G6767AC-W

Industry leading compact design / 23" x 26" x 14"



5 kW watts Pk 5.5 to 5.7 GHz 100- 264 VAC

General Description:

Elite RF's HP Series amplifier is a Narrowband power amplifier designed for pulsed signals fabricated on GaN process and can operate up to **5700 MHz**. These amplifiers offer high power density, low thermal resistance, and rugged performance. They can be widely used for military and commercial applications.

Like all Elite RF amplifiers, this product comes with an industry leading warranty.

Features

5kW Pk. Output Power
Fwd/Rev power monitor
Current/temp of each module
Forward power sample port
RS422 control
Protection Alarms
System interlock
Water cooled

Protections

Thermal shutdown at 85 deg C
VSWR shutdown at 3:1
Duty cycle shutdown at > 1%
Pulse width shutdown at > 25 usec
Forward power shutdown at 5.5 kW
System alarms

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	5400		5900	MHz
Output Power Pk	Psat		5.0		kW
Pulse droop	Pd		0.5	1.0	dB
Small Signal Gain	Gp		69		dB
Gain Flatness	Delta Gp 1		+/- 1		dB
Input VSWR	S11		2:1		Ratio
Duty Cycle	DC		0.4	1	%
Harmonics	H		-20		dBc
Spurious Signals	Spur		-60		dBc
AC Operating Voltage / 50- 60 Hz	Opv	100	220	264	VAC
AC Avg Power at 5 kW PK / 1% DC	Pd		500		Watt
Interface	Prf		RS- 422		nsec
Pulse Width	PW		15	25	usec
Power Gain	Lsg		67		dB
Max Load VSWR @ 10kW Pk	ML			3:1	Ratio

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Temperature	Tc	0		+50	Deg. C
Storage Temperature	Tstg	-40		+85	Deg. C
Relative Humidity (non-condensing)	RH			95	%
Altitude	ALT			10,000	Feet
Vibration/Shock	VI /SH		Normal Truck Transport		

MECHANICAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Dimensions	Dim		23 x 26 x 14		Inches
Weight	Wt.		175		lbs.
Connectors In/Out	RF Conn		N-Type / WR159		-
Cooling	Th		Water cooling		-

OPTIONS

Parameter	Add suffix to part number
Heat sink and fans	N/A
Isolator with forward and reverse voltage outputs	N/A
TTL Input Trigger	N/A

Mechanical Drawings

