

Compact C- Band 10 kW / High Power Amplifier

Model – HPG5.75.9G5860AC-W

Industry leading compact design / 24" x 24" x 14"



600 Watts CW/PULSED 5.7 to 5.9 GHz 180 - 264 VAC

General Description:

Elite RF's HPG Series amplifier is a Narrowband power amplifier designed for CW/pulsed signals fabricated on GaN process and can operate up to **5900 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

600 watts. Output Power
Fwd/Rev power monitor
RS422 control
Protection Alarms
System interlock
Water cooled
Internal RF source

Protections

Thermal shutdown at 85 deg C
VSWR shutdown at 3:1
System alarms

ELECTRICAL SPECIFICATIONS

Parameters	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	5700		5900	MHz
Output Power CW	Psat		600		W
Pulse Drop	Pd		0.5	1.0	dB
Small Signal Gain	Gp		64		dB
Gain Flatness	Delta Gp 1		+/- 1		dB
Input VSWR	S11		2:1		Ratio
Duty Cycle	DC		10	100	%
Harmonics	H		-40		dBc
Spurious Signals	Spur		-60		dBc
AC Operating Voltage / 50- 60 Hz	Opv	180	220	264	VAC
AC Avg Power at 600W CW	Pd		3000		Watt
Pulse rise and fall time	Prf		200		nsec
Pulse Width	PW		N/A		usec
Power Gain	Lsg		60		dB
Max Load VSWR @ 600 W	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		24.0 x 24.0 x 14.0		Inches
Weight	Wt.		210		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

