

LINEAR WIDEBAND POWER AMPLIFIER

Model – MA6.0018G474728

General Description:

Elite RF's MA Series amplifier is a wideband power amplifier designed for CW signals fabricated on GaN on SiC process and can operate up to **18.0 GHz**. These amplifiers offer high power density, low thermal resistance, and wideband 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

Wide Freq. Range
High Output Power
High Gain

Indicator options

DC Power
Temp Fault

Protections

Over Current
Over Heat

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	6000		18000	MHz
Output Power CW	Psat		50		Watt
Output Power at 1 dB Compression Small	P1dB		20		Watt
Signal Gain	Gp		47		dB
Gain Flatness	Delta Gp 1		+/- 4		dB
Input VSWR	S11			2:1	Ratio
IMD @ 12 GHz @ 1 watt one / 1 MHz spacing	IP3		-		dBm
Harmonics	H		-12		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC		28		VDC
Power Consumption	P			300	Watt
Class of Operation	C		A		Class
Input Power	Pin			5	dBm

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case Temperature	Tc	0		+40	Deg. C
Storage Temperature	Tstg	-20		+75	Deg. C
Relative Humidity (non-condensing)	RH	5		95	%
Vibration/Shock	VI /SH		Normal Truck Transport		

MECHANICAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Dimensions	Dim		7.8 x 6.0 x 1.2		Inches
Weight	Wt.		5		kg
Connectors In/Out	RF Conn		SMA-F/N-F		-
Cooling	Th		Fan Cooling		-

OPTIONS

Parameter	Add suffix to part number
Heat sink and fans	- H

Elite RF LLC

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Order or email us on-line at www.eliterfllc.com