Atlantic Microwave
An ETL Systems Company

A-HPAS4-380046-S5N5

High Power Amplifier

Wide Band
0.7-2.7GHz

- Radar Systems
- Communication Systems
- Receiver Systems

RoHS COMPLIANT

ESD

RF Parameters				
	Min.	**Typ.**	**Max.**	**Unit**
Frequency Range	0.7		2.7	GHz
Gain	53	55		dB
Gain Flatness		±2.5		dB
Gain Variation Over Temperature (-45C~+85C)		±2.5		dB
Input Return Loss		15		dB
Output 1 dB Compression (P1dB)	50	50.5		dBm
Saturated Output Power (Psat)	51	52		dBm
3rd Order Intermodulation Product(IM3)		-35		dBc
Supply Current (Idd) (Vcc=+36V)		3	18	A
Efficiency at P1dB	20	25		%
Isolation S12		-55		dB
Input Max Power (no damage)			0	dBm

Physical Specifications			
Weight	14.3Kg	Impedance	50 ohms
Input / Output Connectors	Input: SMA-Female, Output: N-Female	Material	Aluminium
Finishing	Gold 40 micron; Nickel 220 micron thickness	Package Sealing	Epoxy Sealing

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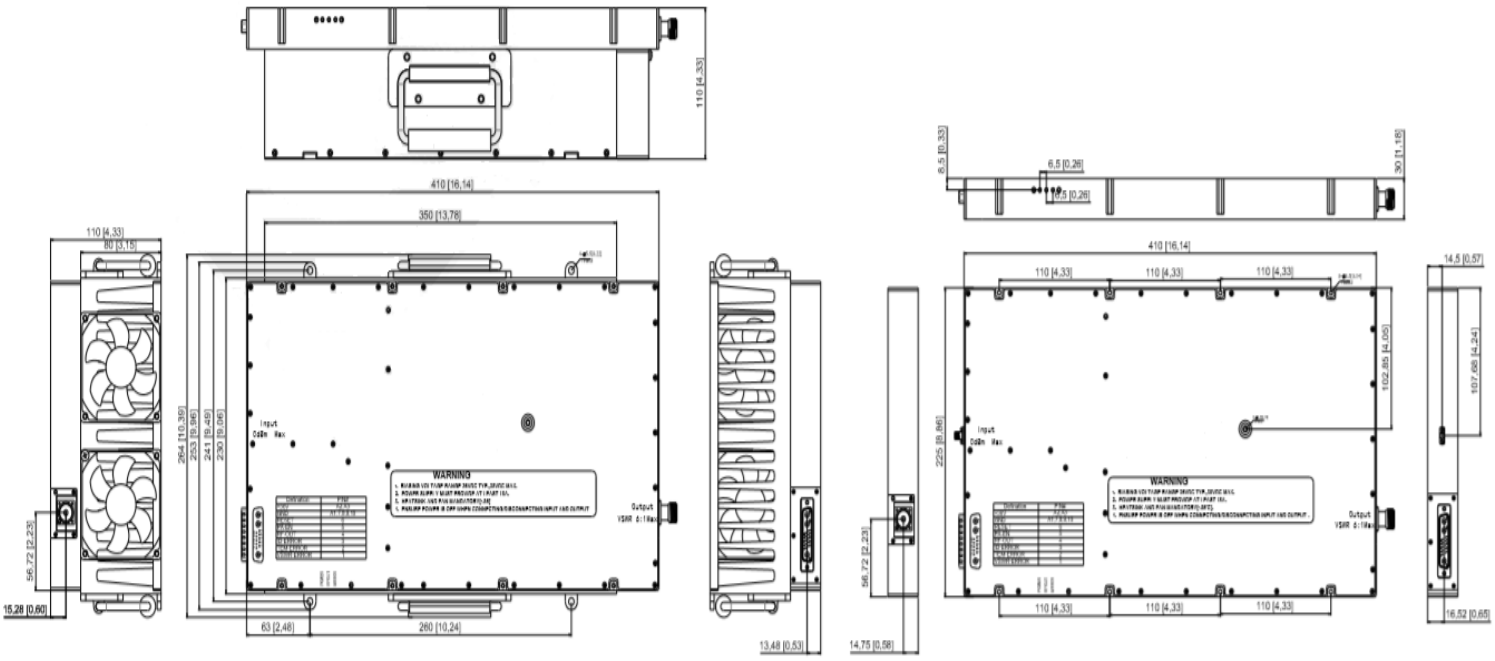
Absolute Maximum Ratings	
Operating Voltage	+38V Max
RF Input Power (RFIN)	+0dBm

Biasing Up Procedure	
Step 1	Connect Ground Pin
Step 2	Connect input and output
Step 3	Connect +36V biasing

Power Off Procedure	
Step 1	Turn off +36V biasing
Step 2	Remove RF connection
Step 3	Remove Ground

Environmental	
Operating Temperature	-20˚C to +40˚C
Storage Temperature	-30˚C to +70˚C
Altitude	30,000 ft.
Vibration	25g RMS (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95% RH at 40°C max.
Shock	20g for 11msc half sine wave, 3 axis both directions

All Dimensions in mm (inches)
Heat Sink required during operation (Sold separately)



Note 1: The specification provided is at nominal bias voltage and at 25˚C unless otherwise specified
Note 2: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.
Note 3: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.