



FEATURES

Small form factor rack mounted system
Class AB linear GaN hybrid design
6.0 – 18.0 GHz
20 Watt output power
43 dB gain

100 - 240 Volt operation

Built-in remote control, monitoring and protection

APPLICATIONS

Suitable for all modulation standards
EMI / EMC test equipment
Lab test equipment

Linear GaN. All modulations. Line powered

Pushing limits.

Broadband performance verification or immunity testing requires both power and bandwidth. The MtronPTI PA2036 Solid State Power Amp provides a 20 Watts of CW power across a 12 GHz bandwidth and less than 4.0 dB_{P-P} gain flatness along with full remote monitoring and control.

With full power operation from 6.0 GHz to 18.0 GHz and built in VSWR protection, the PA2036 has 43 dB of gain and a compact rack mount.

MtronPTI's line of Solid State Power Amplifiers is backed by a multi-national design and manufacturing team with more than 150 years combined PA design experience. MtronPTI's continuing focus on client service ensures full program life engineering support from specification to production to next generation architecture planning.

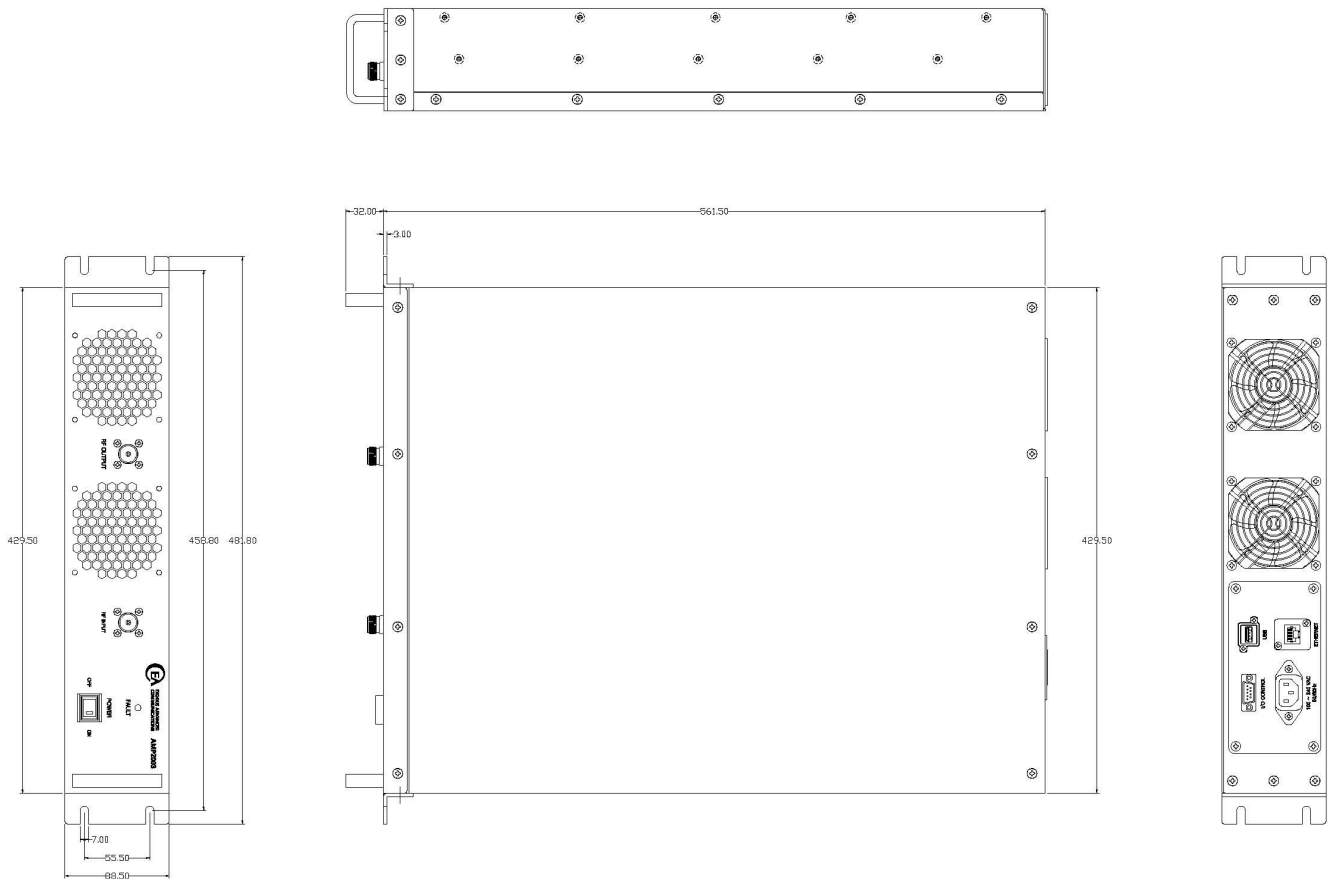
Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Units	Comment
PASSBAND						
Operating Frequency Range	F _{CARRIER}	6.0		18.0	GHz	Saturated CW A _{RF_MAX} – A _{RF_MIN} Within the F _{SIG} bandwidth into 50Ω 33 dBm/tone, Δ = 1 MHz At rated P _{OUT}
Power Output	P _{OUT_MIN}	20			Watts	
Small Signal Gain	A _{RF_MIN}	43			dB	
Power Gain Flatness				4.0	dB _{P-P}	
Input Return Loss	RL _{IN}	10			dB	
2-tone Intermodulation (IMD)			-30		dBc	
Harmonics			-25		dBc	
Non Harmonic Spurious				-60	dBc	
Power						
Operating Voltage	V _{AC}	100		240	V _{AC}	Without damage
Power Consumption	P _{DISS}			150	Watts	
Max Input Power	P _{IN_MIN}			+8	dBm	
Load VSWR Protection			∞ : 1			

Environmental & Physical

Parameter	Symbol	Min.	Typ.	Max.	Units	Comment
Operating Case Temperature	T _{OC}	0		+50	°C	
Storage Temperature	T _{STR}	-40		+85	°C	
Relative Humidity		5		95	%	Non-condensing
Dimensions			430 x 88 x 562 mm			2U
Weight				9	kg	
RF Connectors IN / OUT			Type N female			
Optional: digital monitor & control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP			Ethernet RJ-45 TCP/IP, RS422/485, GPIO			Remote Bluetooth application

Case Outline



Revision History

Date	Rev.	Orig.	Details of Revision
20150317	A	DPD	Initial

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