



## FEATURES

Class AB linear LDMOS design  
250 kHz - 1000 MHz  
10 Watt output power  
40 dB gain  
28 Volt operation  
Suitable for all modulations standards

Fully protected – load VSWR, input overdrive,  
over/under supply voltage, overcurrent

## APPLICATIONS

Broadband jamming  
Electronic warfare  
EMI / EMC test equipment

## Wideband. Agile. Powerful. Compact.

### *Spectrum management.*

The first task is to get your message through. The second is to prevent the other guy from getting *his* message through. The MtronPTI PA1067 Solid State Power Amp provides a minimum of 10 Watts of CW power across the full bandwidth and less than 4.0 dB<sub>P-P</sub> gain flatness to meet the needs of broadband spectrum control.

With full power operation from 250 kHz to 1000 MHz and built in VSWR protection, the PA1067 has 40 dB of gain, perfect for stand-alone, array or TWT driver applications.

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.

Like all MtronPTI's SSPAs, the PA1067 is also available integrated with power supply, cooling and communications interface as a rack mountable unit for laboratory or fixed location applications.

EA-6B Prowler – U.S. Navy photo by Photographer's Mate 3<sup>rd</sup> Class Martion S. Fuentes. (RELEASED)



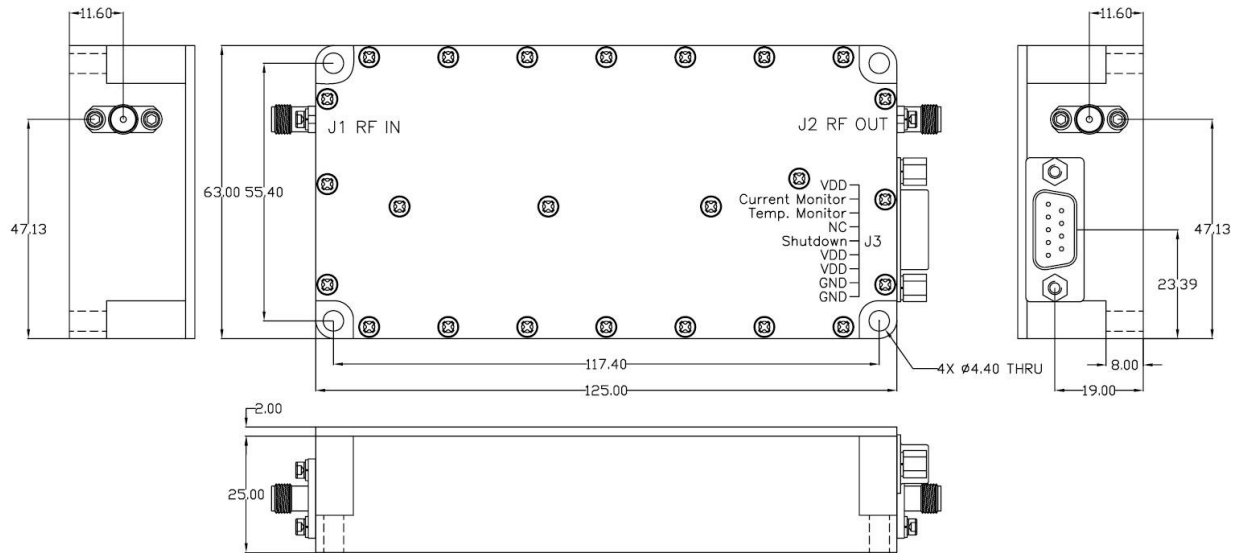
Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Units	Comment
<b>PASSBAND</b>						
Operating Frequency Range	$F_{CARRIER}$	0.25		1000	MHz	CW  $A_{RF\_MAX} - A_{RF\_MIN}$ Within the $F_{SIG}$ bandwidth into 50Ω 30 dBm/tone, $\Delta = 1$ MHz At rated $P_{OUT}$
Power Output	$P_{OUT\_MIN}$	10			Watts	
Small Signal Gain	$A_{RF\_MIN}$	40			dB	
Power Gain Flatness				4.0	dB <sub>P-P</sub>	
Input Return Loss	$RL_{IN}$	10			dB	
2-tone Intermodulation (IMD)			-30		dBc	
Harmonics			-20		dBc	
Non Harmonic Spurious				-60	dBc	
<b>Power</b>						
Operating Voltage	$V_{DD}$	28		30	$V_{DC}$	Without damage
Current Consumption	$I_{DD}$			2	A	
Max Input Power	$P_{IN\_MIN}$			+10	dBm	
Load VSWR Protection			$\infty : 1$			

Environmental & Physical

Parameter	Symbol	Min.	Typ.	Max.	Units	Comment
Operating Case Temperature	$T_{OC}$	-20		+75	°C	
Storage Temperature	$T_{STR}$	-40		+85	°C	
Relative Humidity		5		95	%	Non-condensing
Dimensions			125 x 63 x 27		mm	Excluding connectors
Weight				300	gr.	
RF Connectors IN / OUT			SMA female			
DC Power / Interface Connector			9-pin Hybrid D-Sub			
Cooling			External Heat Sink			Forced air required
D-Sub Connector Pin Assignments		1 FWD 2 VVA 3 Current Sensor 4 Temperature Sensor 5 Shutdown 6, 7 $V_{DD}$ 8, 9 GND				
		N/A Option 103 – Analog Gain Control $I_b @ 50$ mV / 100 mA typ. $V_T @ 10$ mV / °C + 500 mV typ. TTL 28 $V_{DC}$ Ground				

Case Outline (Standard)



Revision History

Date	Rev.	Orig.	Details of Revision
20150317	A	DPD	Initial release in 2015 format

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