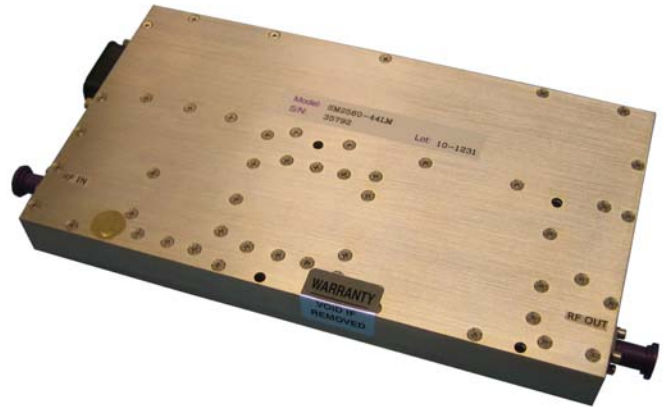


Product Overview

- ▶ > 35% Avg. and 31% Min. PAE across 2.5 – 6 GHz band
- ▶ VSWR, thermal, and RF input protection standard
- ▶ CPU controlled gain compensation
- ▶ Integral heatsink and fan options available
- ▶ RS-485 / serial communication for PA monitoring



The **SM2560-44GN** is a high efficiency GaN SSPA designed for military ECM and Jamming applications. The unit is designed for high reliability and is able to operate in and protected against adverse output VSWR conditions. A sophisticated RS-485 monitoring and control interface is included, where multiple SSPAs can be monitored and adjusted via a master controller.

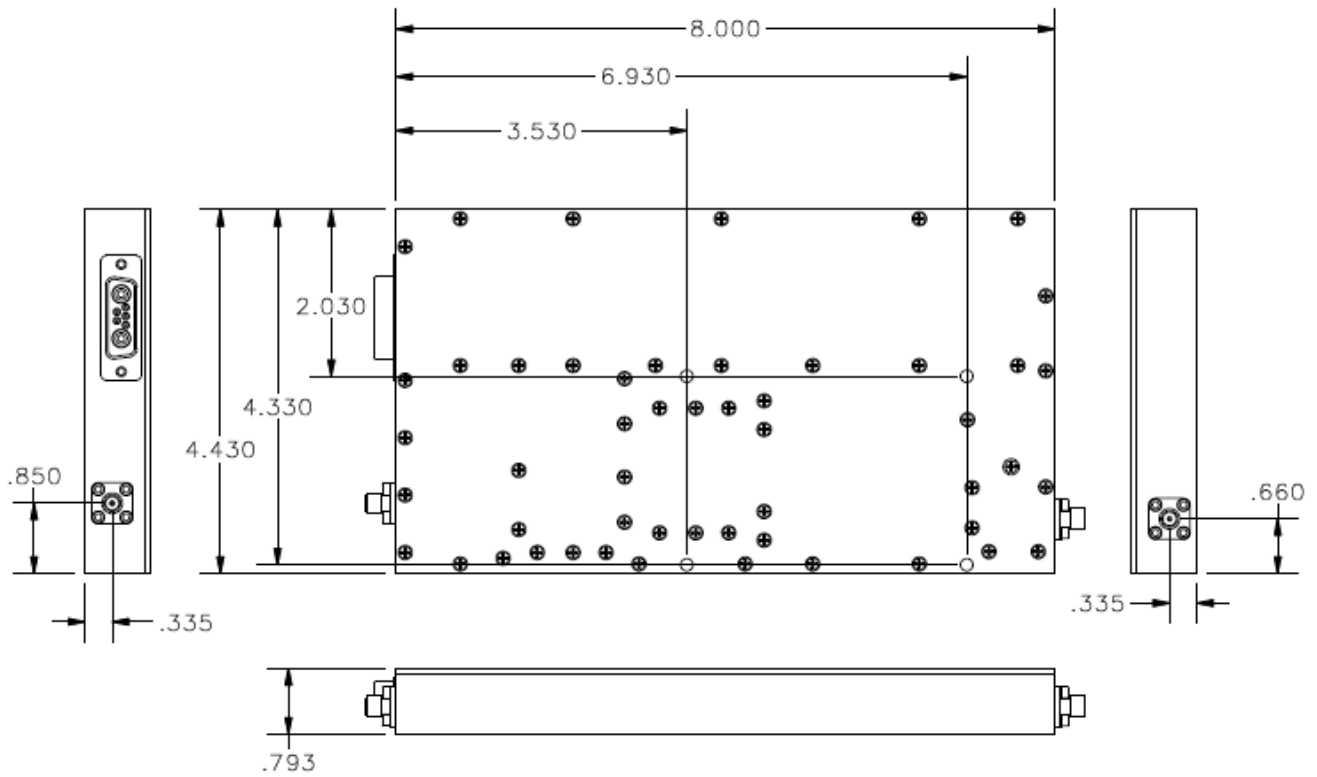
<i>Electrical</i>				
<i>Parameter</i>	<i>Min</i>	<i>Typ</i>	<i>Max</i>	<i>Unit</i>
Frequency Range	2500		6000	MHz
PSat Power output	25			Watt
Linear Gain		44		dB
Gain Flatness over Full Band		±1.5		dB
Gain Change over Temperature			1.0	dB
Input Return Loss (S ₁₁)		-16		dB
Noise Figure			15	dB
Harmonics @ Psat			-15	dBc
Supply Voltage	26	28	30	VDC
Current Draw (Operating @ Psat)		2.8	3.5	A
Switching Time (TTL on/off)			8	us

Mechanical		
Parameter	Value	Unit
Housing Drawing Link	Click Here	
Size	8.0 x 4.43 x 0.79	in.
Weight (Without Heatsink)	10	oz.
Weight (With Heatsink)	29	oz.
RF Input Connector	SMA Female	-
RF Output Connector	SMA Female	-
Control / Monitoring Connector	7W2 D-Sub	-

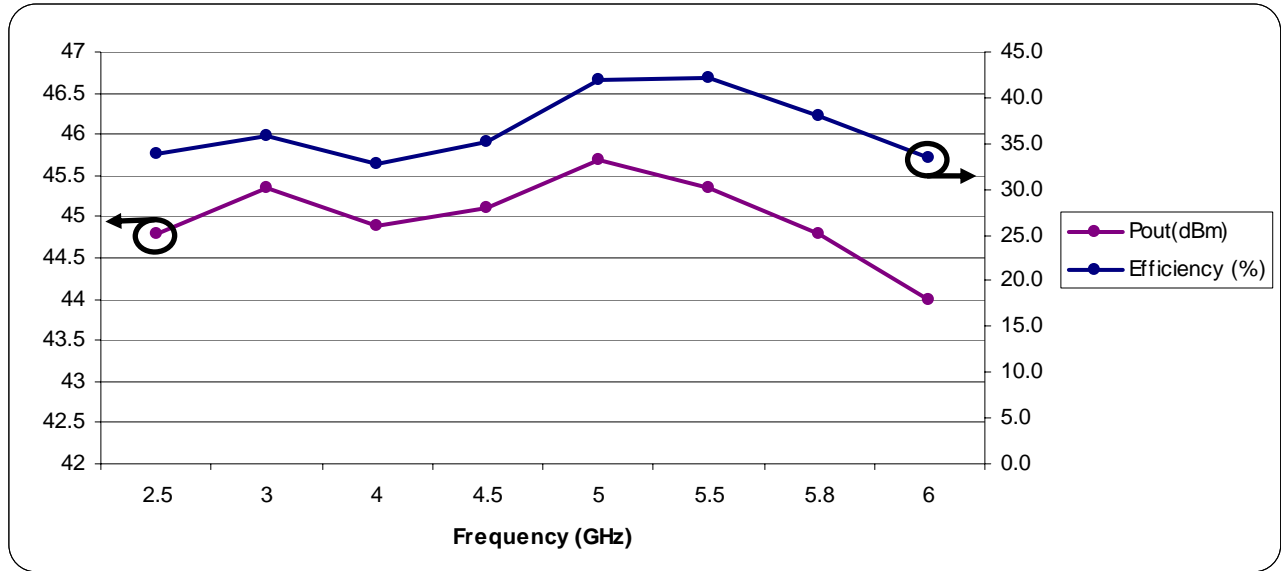
Environmental		
Parameter	Value	Unit
Storage Temperature	-40 to +85	°C
Baseplate Operating Temperature	-20 to +85	°C
Operating Humidity (Non-Condensing)	0 to 95	%
Operating Altitude	0 to 10,000	ft.
Environmental Conditions	Most MIL-STD-810G Test Methods	

Protections		
Parameter	Value	Unit
Max RF Input	+27	dBm
VSWR Tolerance	Infinite at All Phase Angles	Nom
Shut Off temp (Baseplate)	+85	°C

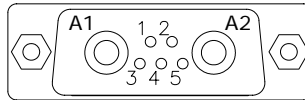
Outline Drawing (Dimensions in Inches)



Typical Efficiency / PSat Output Vs. Frequency



J1 Connector Pinout



Pin	Description	Values
A1	+VDC	+28V
A2	GND	--
1	BLANK (+)	PA Blanking Differential Control
2	B+	RS-485
3	BLANK (-)	PA Blanking Differential Control
4	N/C	
5	A-	RS-485