

## VHF/UHF Broadband Power Amplifier

**PS7597**

The PS7597 VHF/UHF broadband power amplifier provides high efficiency and high power for general communication applications and is suitable for use in test or original equipment manufacturer (OEM) products. The input, output, and bias location on a common surface facilitates easy implementation in rack mount or array configurations. Options include blanking, temperature monitor, over temperature shut down, and phase/amplitude matching.

**Typical Applications:**

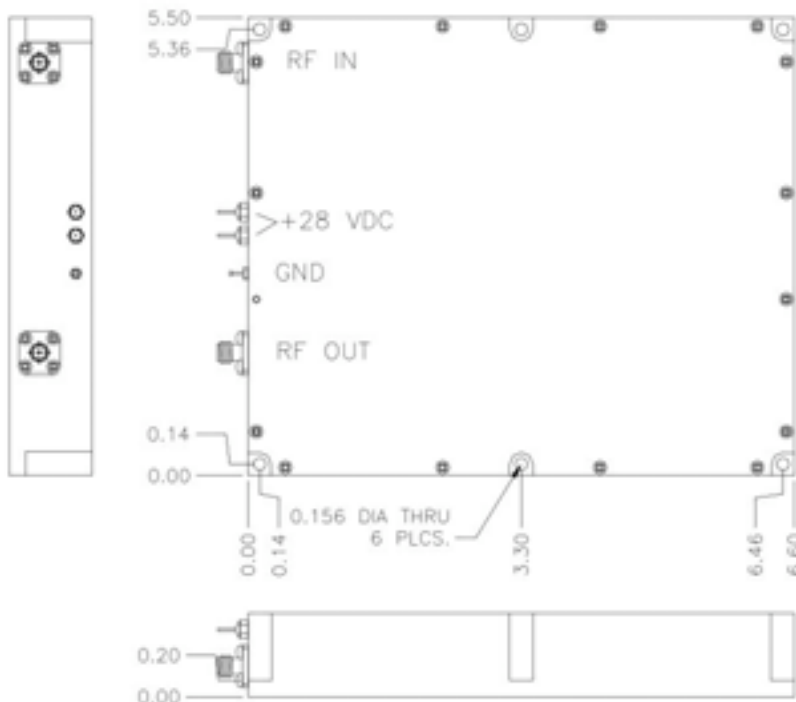
- Military communications
- VHF satellite communications (SATCOM)
- General aviation communications

**Key Features:**

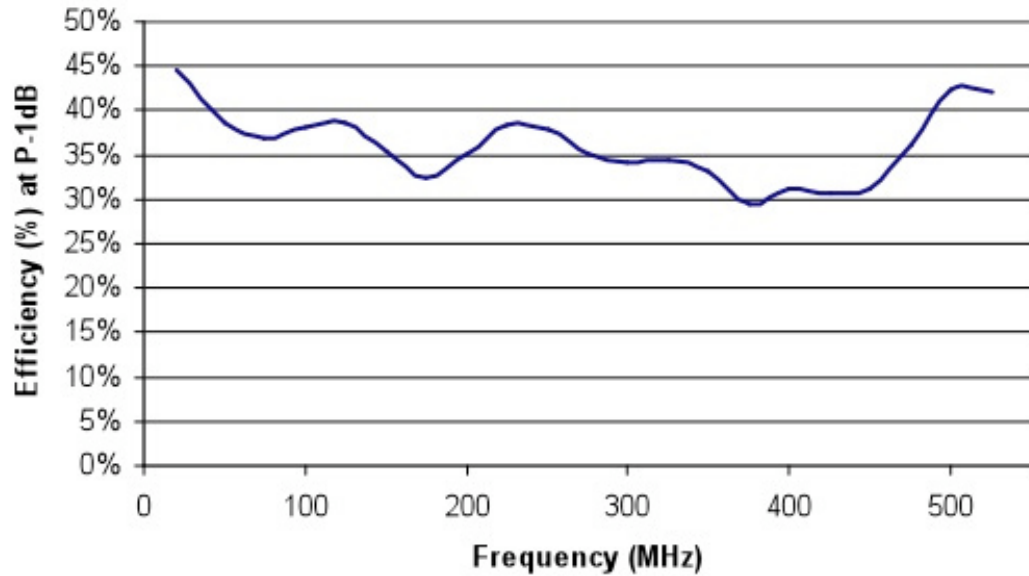
- 100 watts P1dB
- Rugged, efficient VMOS technology
- Solid state reliability
- Class AB operation
- 28 volt operation

Electrical Parameters @28 V, 25°C baseplate	Units	Min.	Typ.	Max.
Frequency	MHz	20		520
Gain	dB	51	56	
Gain variation vs. frequency	±dB		1.5	2.0
Gain variation, over operating temperature	±dB		2	
Input VSWR (50 ohms)			1.5:1	2.0:1
Output power, saturated	watts		120	
Output power, 1 dB compressed	watts	75	100	
Efficiency (P-1dB)	%	30	35	
Voltage	volts		28	
Quiescent current	amps		1.5	
Physical Parameters	Units	Min.	Typ.	Max.
Size	inches	5.5x6.6x1.0		
RF connectors		SMA (F)		
DC connectors		Filter feedthru		
Environmental Parameters		Min.	Typ.	Max.
Operating Temperature	°C	-20		+50

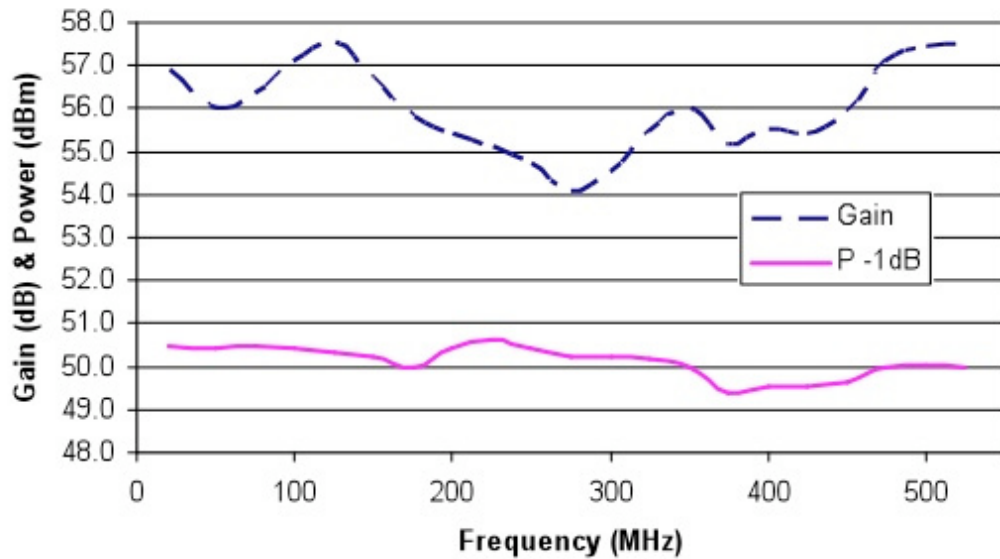
### OUTLINE



### Efficiency



### Gain and Output Power at 1 dB Compression



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