

Ultra Broadband Power Amplifier

PS7497-1



The PS7497-1 provides an industry-leading combination of extremely broad bandwidth and high power, and has been developed specifically for the exacting demands of broadband military platforms within the defense electronics and homeland security industries. Produced using gallium nitride (GaN) technology, the PS7497-1 offers high power density, high voltage operation, higher reliability, and broadband performance in the industry's most compact package.

Typical Applications

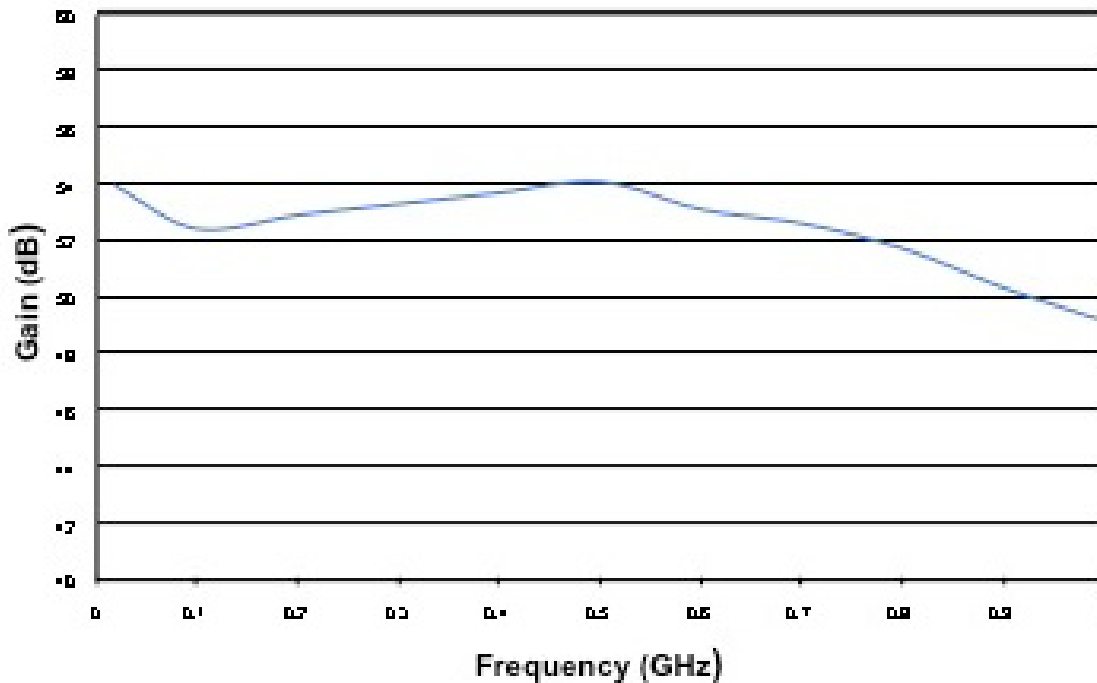
- Electronic warfare (ECM, ECCM)
- Multi-band communication
- Signal simulators
- Instrumentation and test equipment

Key Features

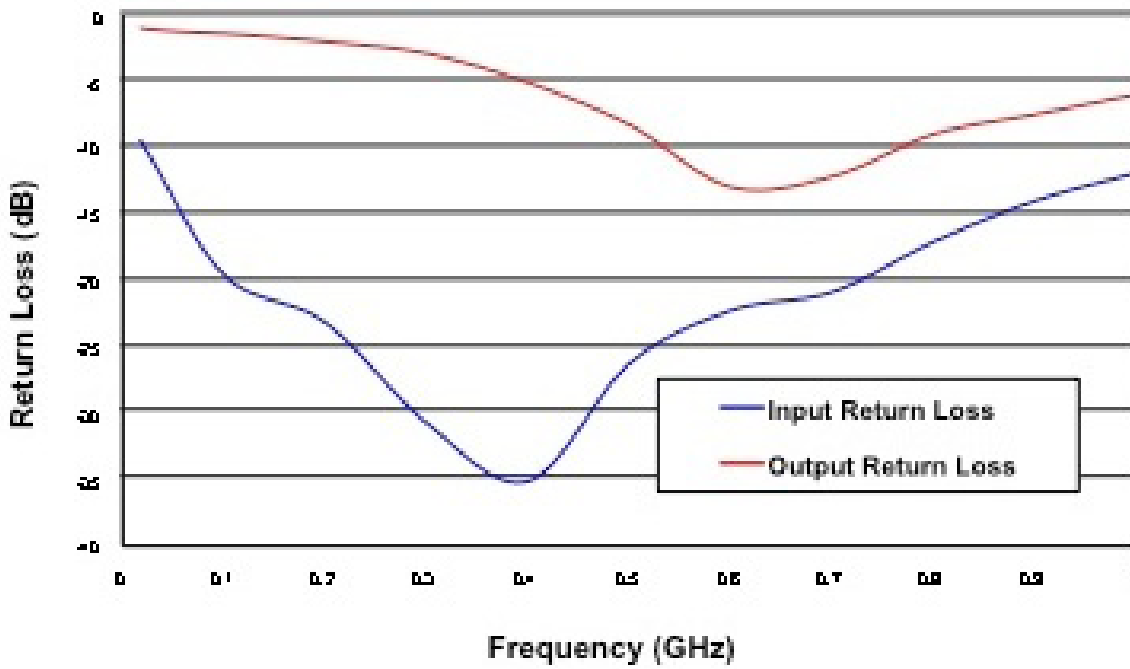
- 20 watts saturated power
- GaN technology
- The industry's most compact size
- Broadband 20-1000+ MHz operation
- Continuous wave (CW) or pulse
- High efficiency
- 28 VDC operation

Electrical Parameters	Units	Min.	Typ.	Max.
@ 28 V, 25°C Baseplate				
Frequency	MHz	20		1000
Gain	dB		52	
Gain Variation	±dB		2	
Gain Variation, Over Operating Temp.	±dB		2	
Input VSWR (50 Ohms)			1.5:1	2:1
Output Power, Saturated	Watts	15	20	
Output Power, 1 dB Compressed	Watts	8	12	
Efficiency (@Psat)	%	20	30	
Blanking	TTL	Low=Enable High=Standby		
Blanking (Rise/Fall)	µS		1	
Blanking (Delay)	µS		6	
Voltage	Volts		28	
Quiescent Current	mA		2100	
Standby Current	mA		3	10
Physical Parameters				
Size	In.	1.86 x 5.09 x 0.82		
RF Connectors		SMA (F)		
DC Connectors		Filter Feedthru Solder Terminal		

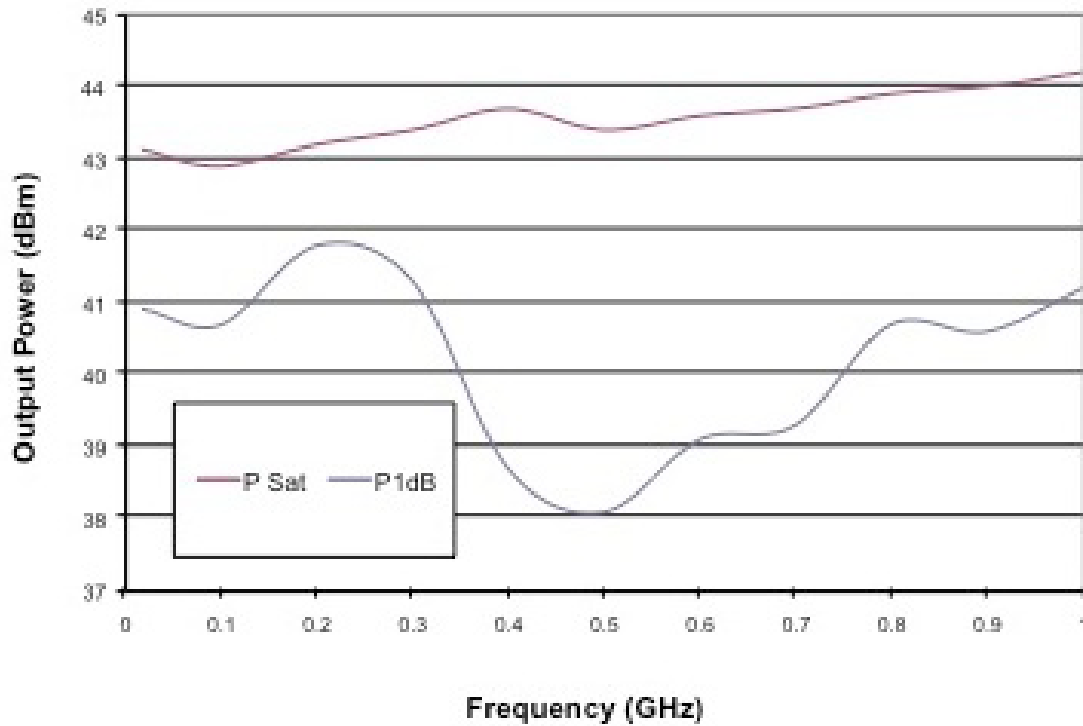
PS7497-1 Gain



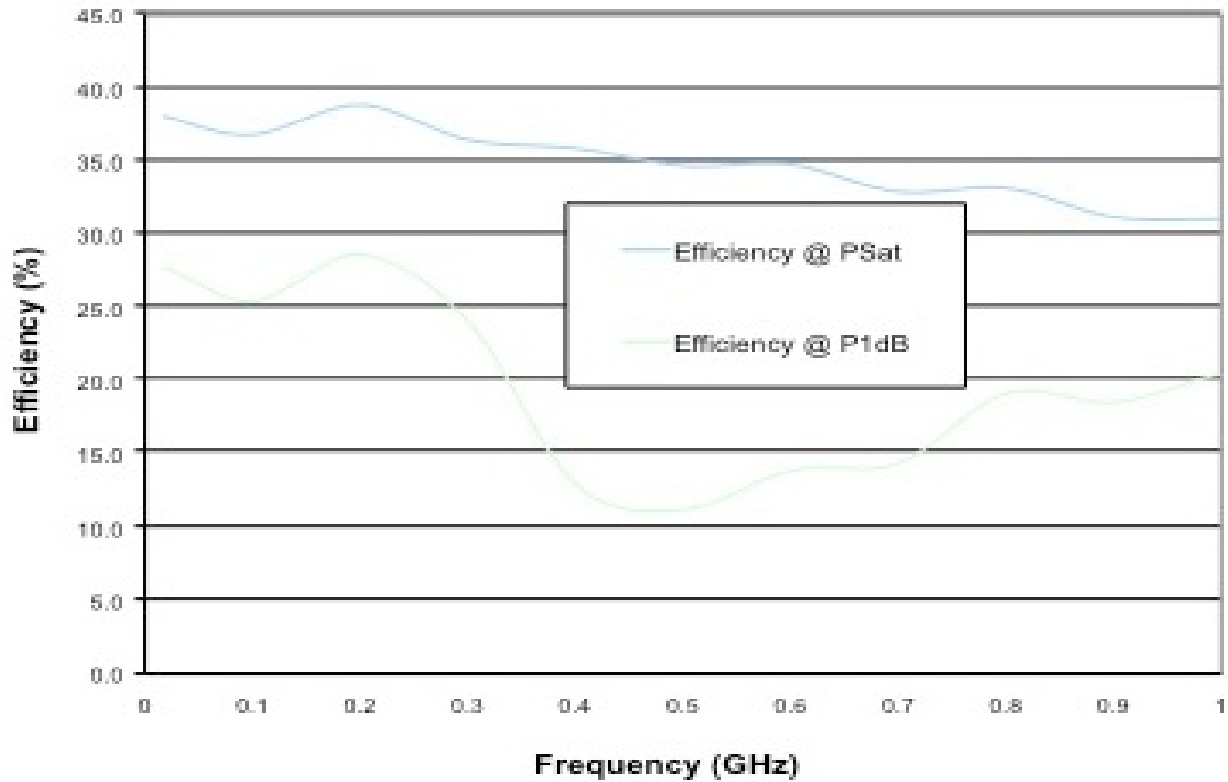
PS7497-1 Return Loss



Psat and P1dB



Efficiency



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