

0.4 ~ 2.7 GHz 2W Power Amplifier

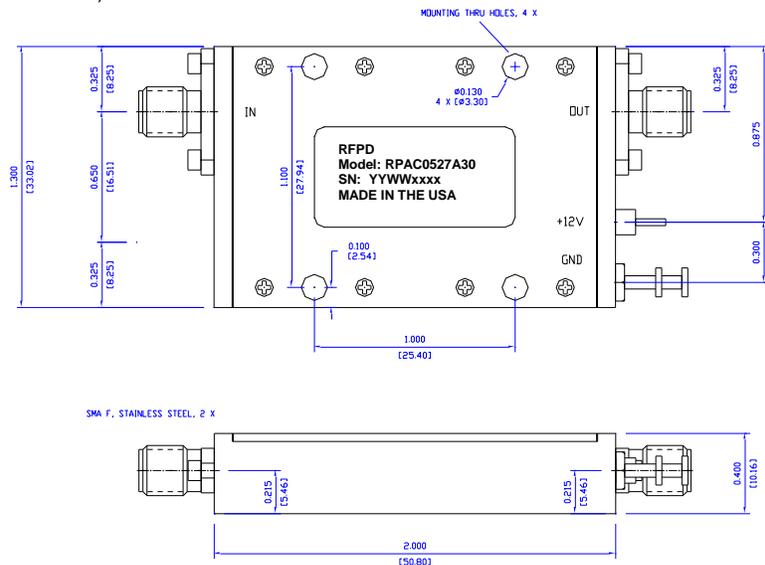
Key Features:

Broad Frequency Range: 0.4 ~ 2.7 GHz
 High Gain: 33 dB
 P_{1dB}: 33dBm
 High Efficiency: 27%
 Single DC Supply: 650 mA @ +12V
 Connectors: SMA (F)
 Built-in Functions: TBD

Electrical Specifications¹: (at room temperature)

Testing Item	Symbol	Test Constraints	Min	Nom	Max	Unit
Gain	S ₂₁	0.4 ~ 2.7 GHz	30	33		dB
Gain Variation	ΔG	0.4 ~ 2.7 GHz		+/- 1		dB
Input VSWR	S ₁₁	0.4 ~ 2.7 GHz			2:1	
Output VSWR	S ₂₂	0.4 ~ 2.7 GHz			2:1	
Reverse Isolation	S ₁₂	0.4 ~ 2.7 GHz		TBD		dB
Noise Figure	NF	0.4 ~ 2.7 GHz		2.0		dB
Output Power @ 1dB Compression	P _{1dB}	0.4 ~ 2.7 GHz		33		dBm
Output IP3	OIP ₃	2-tone, +20 dBm per tone	+45			dBm
Power Added Efficiency	η	0.4 ~ 2.7 GHz		27		%
Current Consumption	I _{dd}	V _{dd} = +12 V		650		mA
Power Supply Voltage	V _{dd}			+12		V
Operating Temperature	T _o				TBD	°C
Thermal Resistance	R _{th,c}				TBD	°C/W

Outline Drawing (not in scale)



¹ Specifications are subject to change without notice.

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Ordering Information

Part Number	RPAC0427A
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