

XPA Series

0.1 – 22GHz 1W RF Power Amplifier

Features

- Frequency Range: 0.1-22GHz
- Gain: 35dB
- P_{1dB}: +30dBm
- P_{SAT}: +33dBm
- DC Power: +24V @ 850mA
- SMA-female

Description

HD33797 is a wide band 1W high performance RF Power Amplifier, with standard frequency range of 100MHz to 22GHz.

Electrical Specifications @+25 °C, Z_{in}=Z_{out}=50 Ω, DC Supply = +24VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	0.1		22
Gain S ₂₁	dB	33	35	
Gain Flatness	dB		±2.5	
Output Power P _{1dB}	dBm		+30	
Output Power P _{SAT}	dBm		+33	
Input VSWR S ₁₁			2.0:1	
Output VSWR S ₂₂			2.0:1	
DC Power Supply - voltage	V	+23	+24	+25
DC Power Supply - current	mA		850	

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Absolute Maximum Ratings

Parameter	Absolute Maximum
Supply Voltage	+25V
RF Input Power	+5dBm
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-65 °C to +150 °C

ESD Sensitive Material



Outline

mm (inches)

