

HD24214

2400-2500MHz 800mW Medium Output Power RF Amplifier

Features

- Frequency Range: 2400-2500MHz
- Gain: 23dB
- P_{1dB}: +29dBm
- IP3: +38dBm
- Noise Figure: 5dB
- DC Power: 5V
- SMA Connector



Description

HD24214 is a 23dB gain +29dBm output Medium Power RF Amplifier with single 5V DC power supply for ISM application and wireless video transmission system or Lab use.

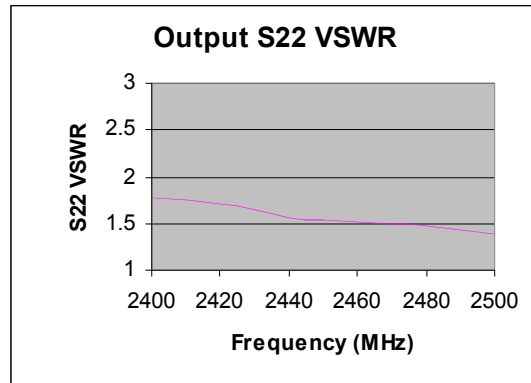
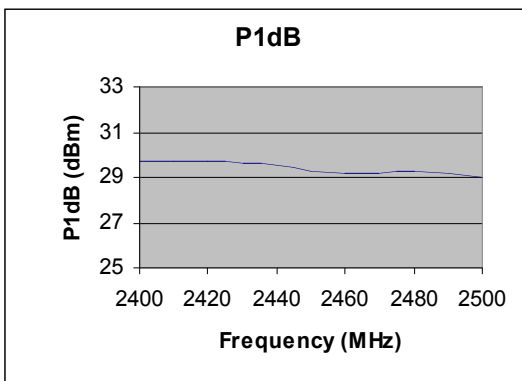
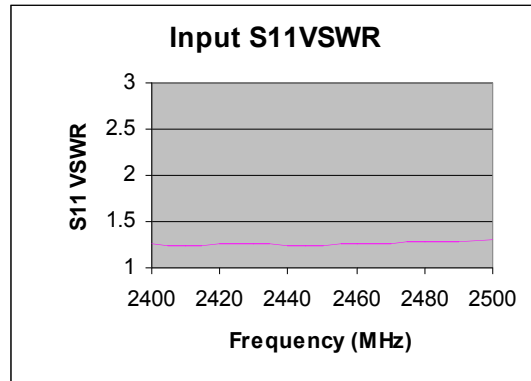
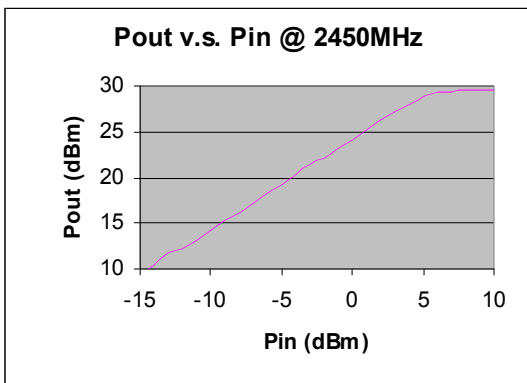
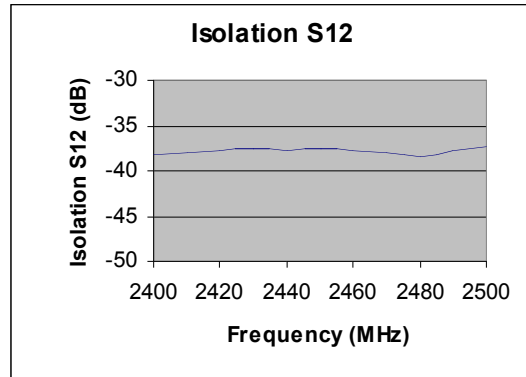
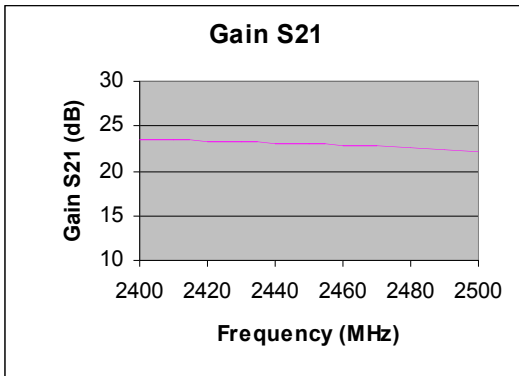
Electrical Specifications @ +25 °C, Z_S = Z_L = 50 Ohms

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	2400		2500
Gain	dB	22	23	
P _{1dB}	dBm		+29	
IP3	dBm		+38	
Reverse Isolation S ₁₂	dB		-35	
Noise Figure f = 2450MHz	dB		5	
VSWR Input VSWR			1:1.5	
Output VSWR			1:1.8	
DC Power Supply	V	4.5	5	6
Supply Current	mA		450	

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Power RF Amplifier**

Typical Performance @ +25 °C



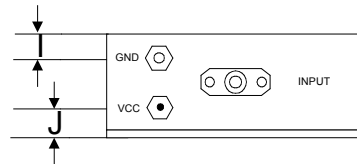
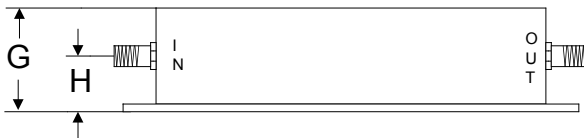
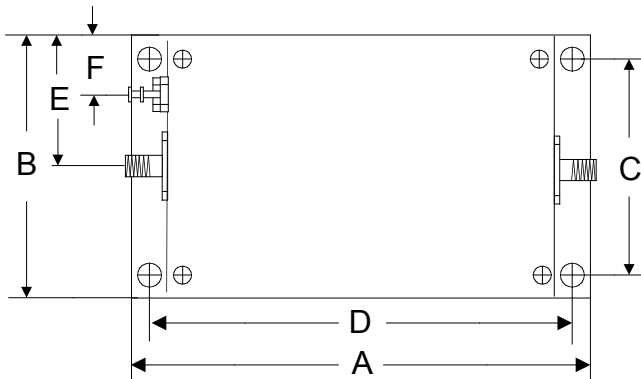
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
Supply Voltage	+7V
Operating Temperature	-40 °C to +70 °C
Storage Temperature	-55 °C to +100 °C

Outline



	A	B	C	D	E	F	G	H	I	J
Inch	3.750	2.000	1.750	3.400	1.000	0.400	0.813	0.375	0.300	0.238
mm	92.25	50.80	44.45	86.36	25.40	10.16	20.64	9.53	7.62	6.03