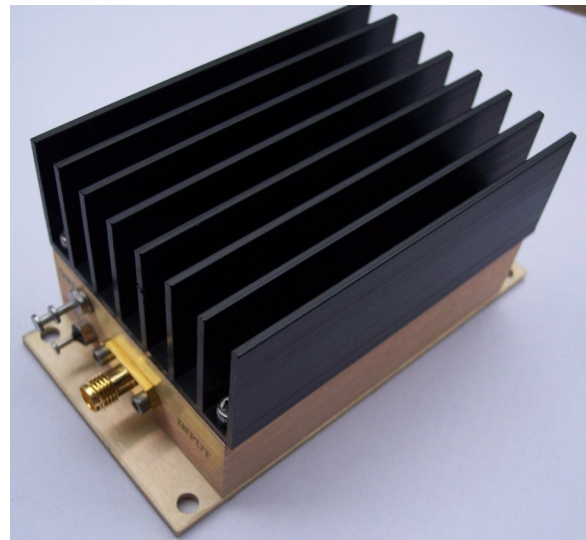


HD24678

5700-5900MHz 1W Medium Output Power RF Amplifier

Features

- Frequency Range: 5700-5900MHz
- Gain: 30dB
- P_{1dB}: +30dBm
- IP3: +39dBm
- Noise Figure: 6dB
- DC Power: 12V
- SMA Connector



Description

HD24678 is a 30dB gain +30dBm output Medium Power RF Amplifier with single 11-15V DC power supply for ISM application and wireless video transmission system or Lab use.

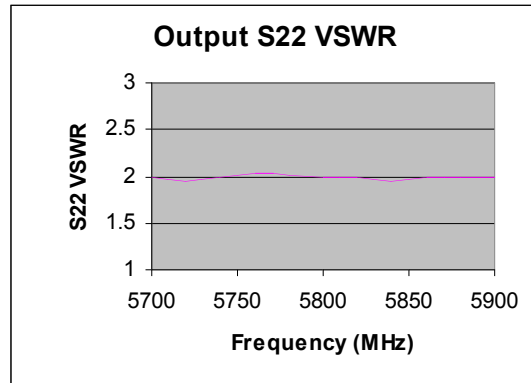
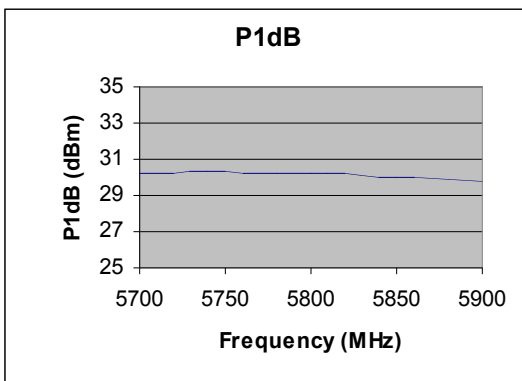
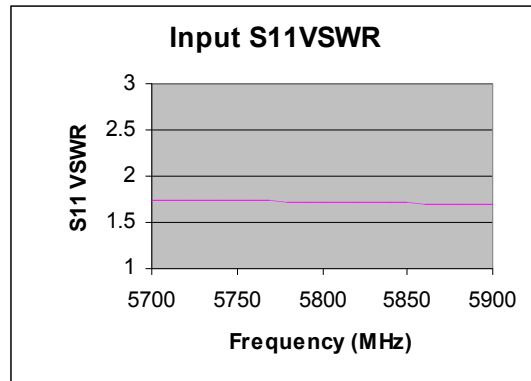
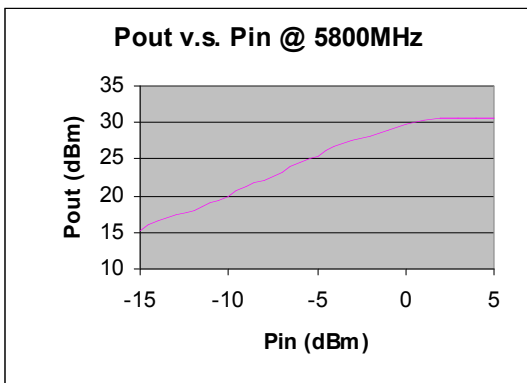
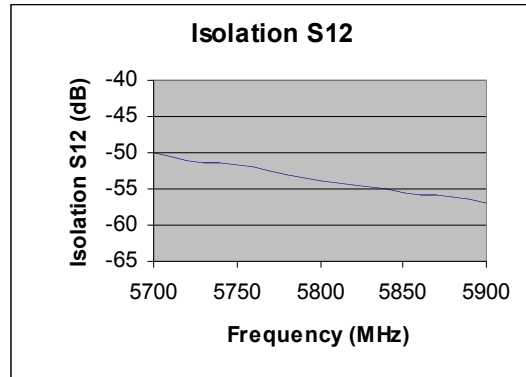
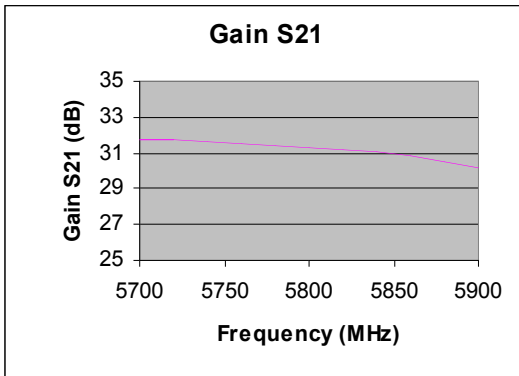
Electrical Specifications @ +25 °C, Z_S = Z_L = 50 Ohms

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	5700		5900
Gain	dB	29	30	
P _{1dB}	dBm		+30	
IP3	dBm		+39	
Reverse Isolation S ₁₂	dB		-50	
Noise Figure f = 5800MHz	dB		6	
VSWR Input VSWR			1:1.8	
Output VSWR			1:2.1	
DC Power Supply	V	11	12	15
Supply Current	mA		600	

HD24678

**5700-5900MHz 1W Medium Output
Power RF Amplifier**

Typical Performance @ +25 °C



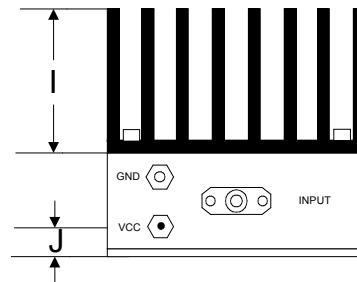
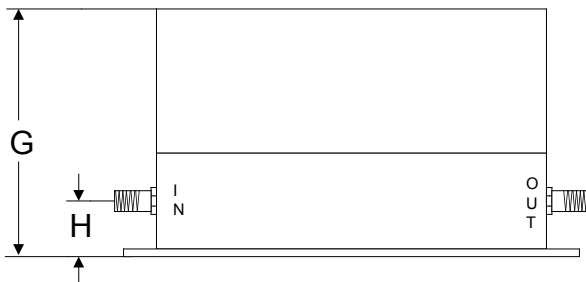
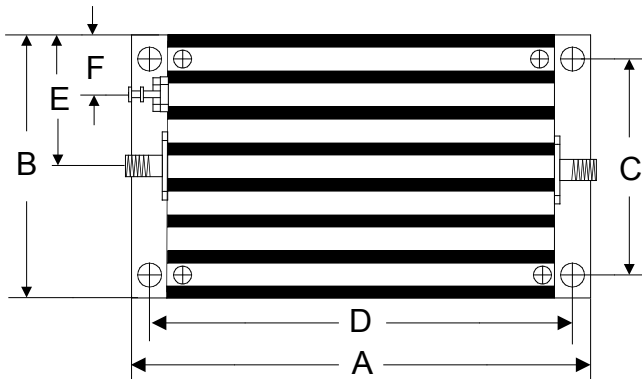
HD24678

**5700-5900MHz 1W Medium Output
Power RF Amplifier**

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+20dBm
Supply Voltage	+17V
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	1.813	0.375	1.000	0.238
mm	92.25	50.80	44.45	86.36	25.40	10.16	46.05	9.53	25.40	6.03