

HD23695

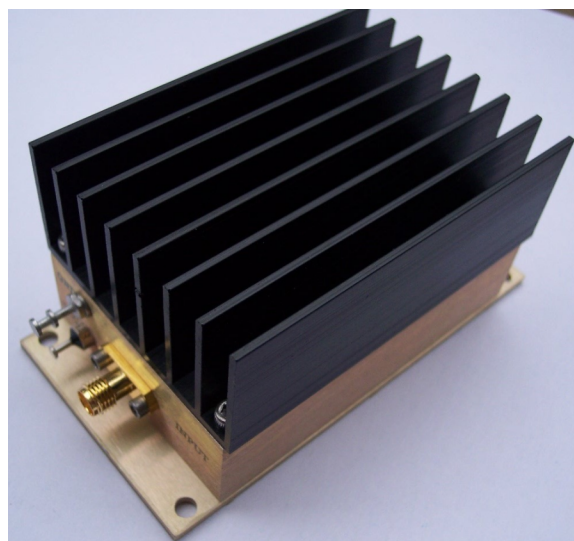
1800-2000MHz 2W Low Noise Medium Output Power RF Amplifier

Features

- Frequency Range: 1800-2000MHz
- Gain: 22dB
- P_{1dB} : +33dBm
- IP3: +45dBm
- Noise Figure: 1.5dB
- DC Power: 12V
- SMA Connector

Description

HD23695 is a 22dB gain +33dBm output Low Noise Figure Medium Power RF Amplifier with single 11.5-15V DC power supply for PCS/CDMA application and wireless video transmission system or Lab use.



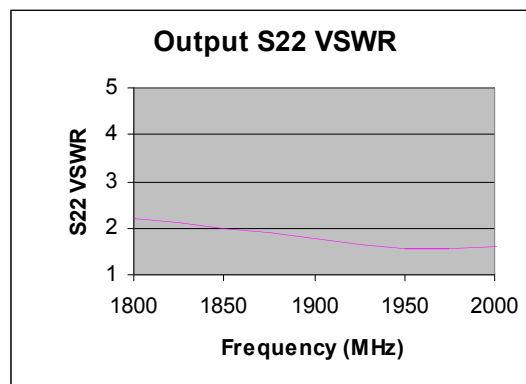
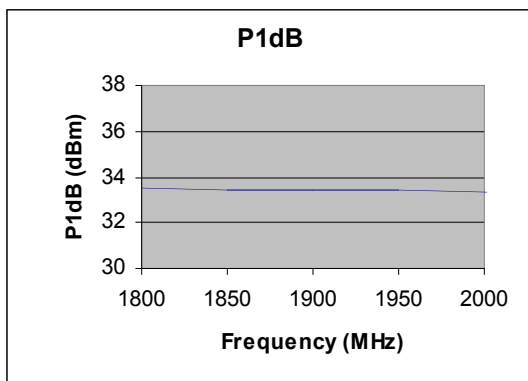
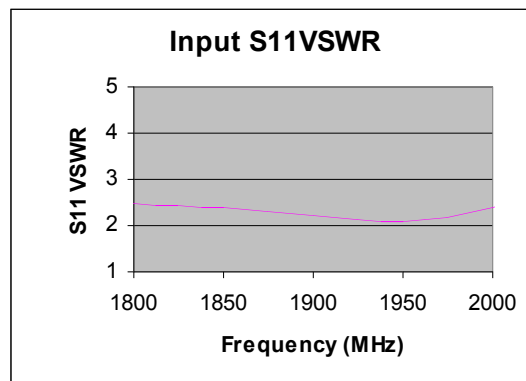
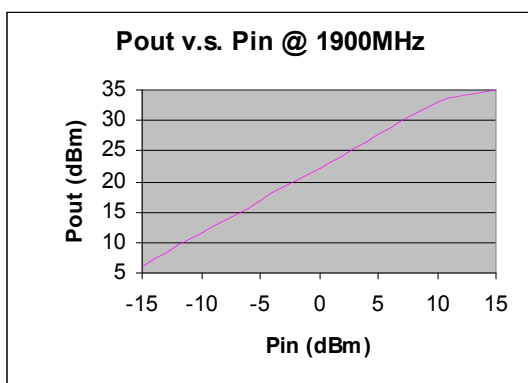
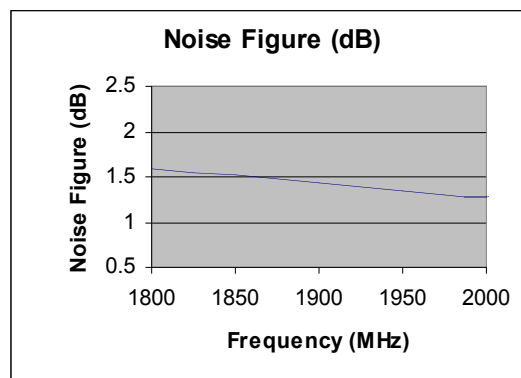
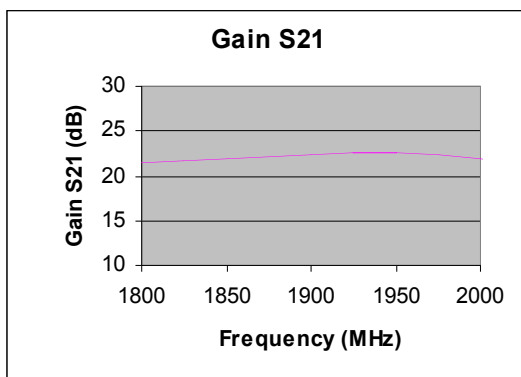
Electrical Specifications @ +25 °C, $Z_s = Z_L = 50 \text{ Ohms}$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	1800		2000
Gain	dB	21	22	
P_{1dB}	dBm		+33	
IP3	dBm		+45	
Reverse Isolation S_{12}	dB		-38	
Noise Figure $f = 1900\text{MHz}$	dB		1.5	
VSWR Input VSWR			1:2.5	
Output VSWR			1:2.2	
DC Power Supply	V	11.5	12	15
Supply Current	mA		1000	

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**1800-2000MHz 2W Low Noise Medium
Output Power RF Amplifier**

Typical Performance @ +25 °C



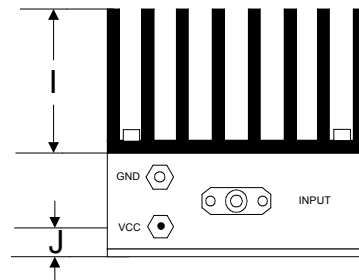
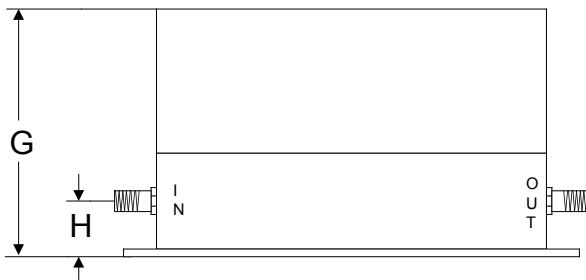
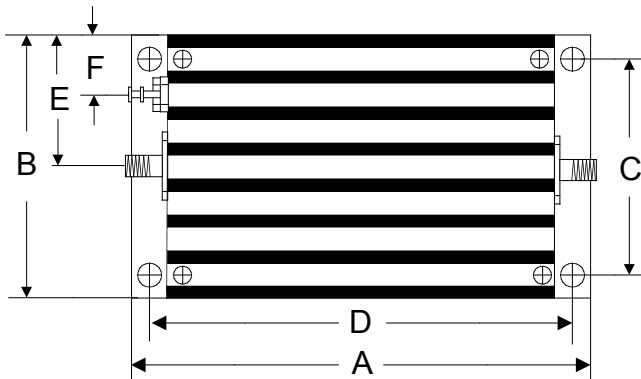
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**1800-2000MHz 2W Low Noise Medium
Output Power RF Amplifier**

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+17dBm
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