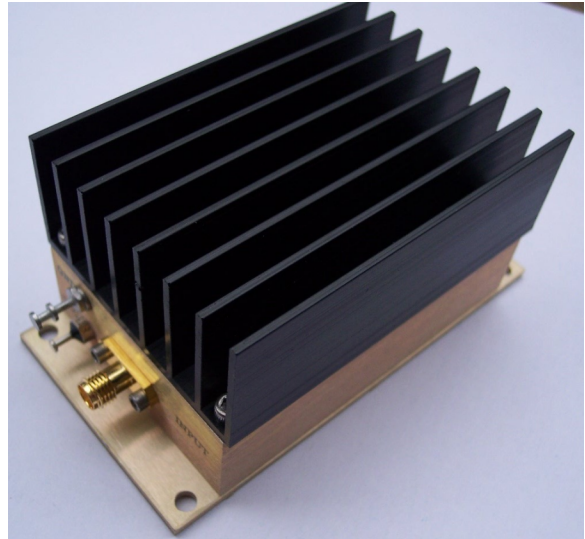


HD28454

30–400MHz 2W RF Power Amplifier

Features

- Frequency Range: 30-400MHz
- Gain: 35dB
- P_{out}: +33dBm
- IP3: +44dBm
- Noise Figure: 6dB
- DC Power: 24V
- SMA Connector



Description

HD28454 is a 2Watt (+33dBm) output RF Power Amplifier operating from single 24V DC power supply with frequency from 30MHz to 400MHz.

Electrical Specifications @ +25 °C, Z_S = Z_L = 50 Ω, V_{cc} = 15V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	30		400
Small Signal Gain	dB		35	
Gain Flatness	dB		±0.5	
Output Power P _{out} @ P _{in} = -2dBm	dBm	+33	+34	
IP3	dBm		+44	
IMD3 (Two Tone +20dBm Output)	dBc		48	
Reverse Isolation	dB		-75	
Noise Figure	dB		6.0	
Efficiency at P _{out} = +33dBm	%		33	
VSWR				
Input (30-400MHz)			1.3:1	
Output (30-400MHz)			1.5:1	
DC Power Supply	V	20	24	
Supply Current	mA		750	
Size (Excluding SMA Connector)	inch	3.750" x 2.000" x 1.913"		
Weight	Oz.	8		

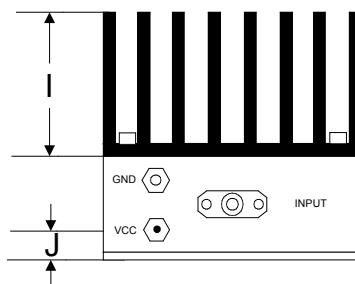
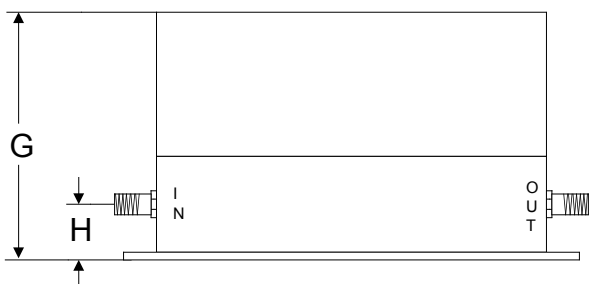
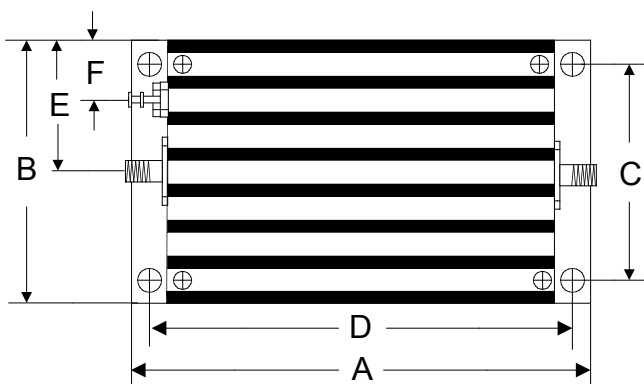
HD28454

30–400MHz 2W RF Power Amplifier

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+17dBm
Supply Voltage	+28V
Operating Temperature	-30 °C to +65 °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	1.913	0.375	1.000	0.238
mm	92.25	50.80	44.45	86.36	25.40	10.16	48.59	9.53	25.40	6.03