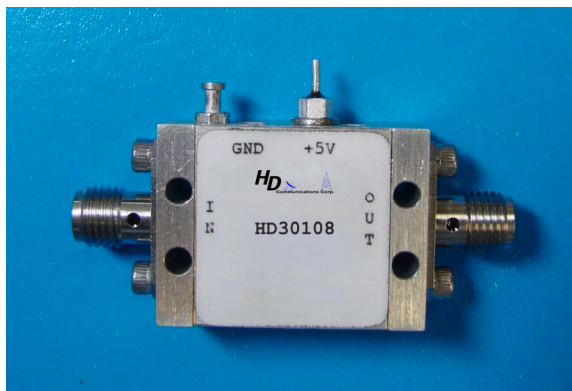


HD30108

5 - 15 GHz Low Noise Amplifier

Features

- Frequency Range: 5-15GHz
- Gain: 27dB
- P_{1dB} : +10dBm
- IP3: +25dBm
- Noise Figure: 1.9dB (typ.)
- DC Power: 5V @ 65mA
- SMA-female connectorized



Description

HD30108 is a high performance Microwave Low Noise (& Driver) Amplifier, with standard frequency range of 5GHz to 15GHz.

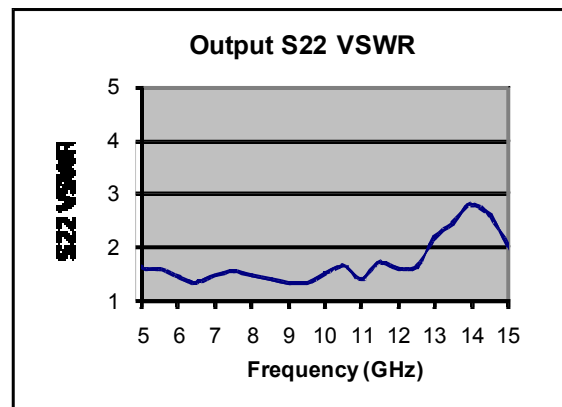
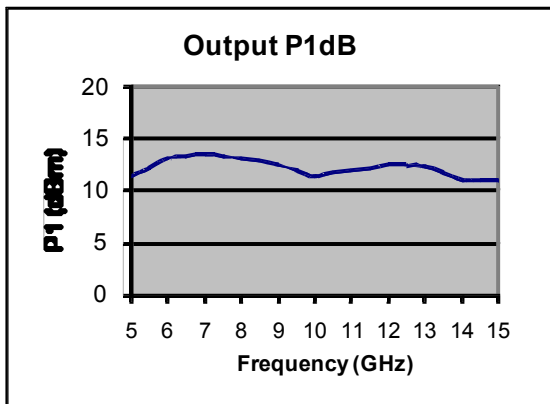
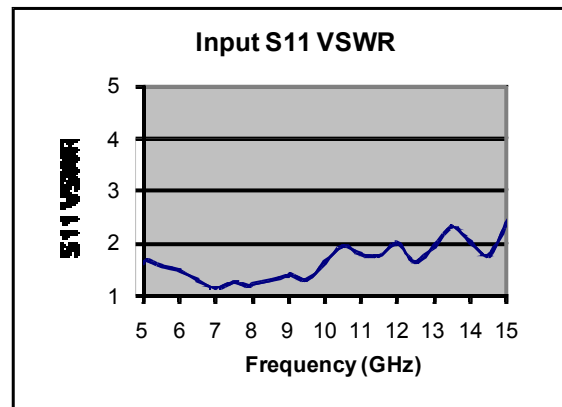
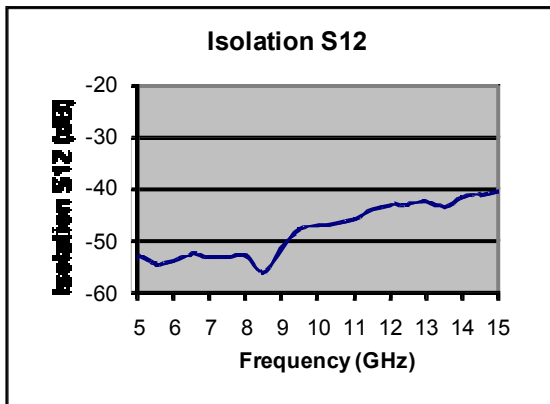
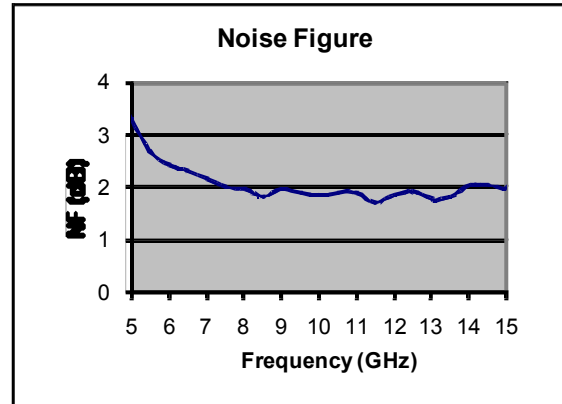
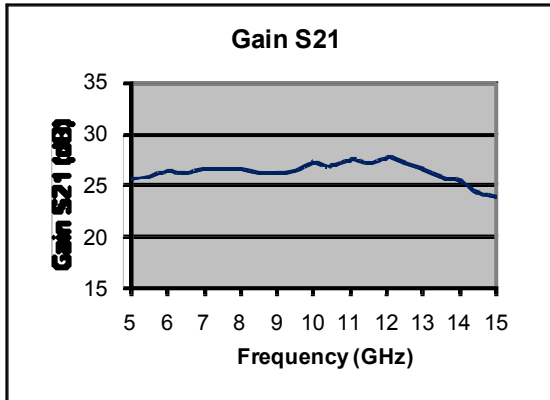
Electrical Specifications @+25 °C, $Z_{in}=Z_{out}=50$ Ohm, $V_{supply} = +5VDC$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	5		15
Gain (S21) f = 5GHz	dB		25.5	
f = 10GHz	dB		27.0	
f = 15GHz	dB		23.8	
Gain Variation Over Temperature	dB/°C		0.02	0.03
Output Power P_{1dB}	dBm	+10	+11	
Saturated Output Power P_{Sat}	dBm		+13	
Output Third Order Intercept IP3	dBm		+25	
Noise Figure @10GHz	dB		1.9	2.1
Reverse Isolation (S12) @10GHz	dB		-47	
VSWR-Input (S11)	ratio:1	1.7 @5GHz	1.7 @10GHz	2.4 @15GHz
VSWR-Output (S22)	(unitless)	1.6 @5GHz	1.5 @10GHz	2.0 @15GHz
DC Power Supply - voltage	V	4.5	5.0	5.5
DC Power Supply - current	mA		65	75
Operating Temperature	°C	-40		+85
Size (RF/DC feedthru's excluded)	Inch	1.00 (L) x 0.75 (W) x 0.45 (H)		
Weight	Oz	0.6 (17 grams)		

HD30108

5 - 15 GHz Low Noise Amplifier

Typical Performance @+25 °C



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5 - 15 GHz Low Noise Amplifier

Typical Performance @+25 °C

