30 MHz to 6 GHz RF/IF Gain Block

Data Sheet

ADL5610

FEATURES

- Fixed gain of 18.4 dB
- Broad operation from 30 MHz to 6 GHz
- High dynamic range gain block
- Input and output internally matched to 50 Ω
- Integrated bias circuit
- OIP3 of 38.8 dBm at 900 MHz
- P1dB of 20.4 dBm at 900 MHz
- Noise figure of 2.2 dB at 900 MHz
- Single 5 V power supply
- Low quiescent current of 92 mA
- Wide operating temperature range of −40°C to +105°C
- Thermally efficient SOT-89 package
- ESD rating of ±1.5 kV (Class 1C)

FUNCTIONAL BLOCK DIAGRAM

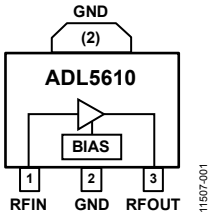


Figure 1.

GENERAL DESCRIPTION

The ADL5610 is a single-ended RF/IF gain block amplifier that provides broadband operation from 30 MHz to 6 GHz. The ADL5610 provides a low noise figure of 2.2 dB with a very high OIP3 of more than 38 dBm simultaneously, which delivers a high dynamic range.

The ADL5610 provides a gain of 18 dB, which is stable over frequency, temperature, and power supply, and from device to device. The amplifier is offered in the industry-standard SOT-89 package and is internally matched to 50 Ω at the input and output, making the ADL5610 easy to implement in a wide variety of applications. The only external parts required are the input and output ac coupling capacitors, power supply decoupling capacitors, and bias inductor.

The ADL5610 has a high ESD rating of ±1.5 kV (Class 1C) and is fully specified for operation across a wide temperature range of −40°C to +105°C.

A fully populated RoHS-compliant evaluation board is available.

Rev. B
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REVISION HISTORY

12/15—Rev. A to Rev. B

Updated Outline Dimensions ... 16

9/13—Rev. 0 to Rev. A

Added Figure 19; Renumbered Sequentially ... 11
Changes to Figure 29 ... 14
Updated Outline Dimensions ... 16

7/13—Revision 0: Initial Version

SPECIFICATIONS

V_{POS} = 5 V and T_A = 25°C, unless otherwise noted.

Table 1.

Parameter	Test Conditions/Comments	Min	Typ	Max	Unit
OVERALL FUNCTION					
Frequency Range		30		6000	MHz
FREQUENCY = 30 MHz					
Gain			18.1		dB
Output 1 dB Compression Point (P1dB)			16.1		dBm
Output Third-Order Intercept (OIP3)	Δf = 1 MHz, output power (P_{OUT}) = 3 dBm per tone		30.8		dBm
Noise Figure[1]			2.8		dB
FREQUENCY = 140 MHz					
Gain			15.0		dB
vs. Frequency	±10 MHz		±0.43		dB
vs. Temperature	−40°C ≤ T_A ≤ +105°C		±0.33		dB
vs. Supply	4.75 V to 5.25 V		±0.04		dB
Output 1 dB Compression Point			16.0		dBm
Output Third-Order Intercept	Δf = 1 MHz, P_{OUT} = 3 dBm per tone		29.3		dBm
Noise Figure[1]			2.6		dB
FREQUENCY = 350 MHz					
Gain			18.1		dB
vs. Frequency	±10 MHz		±0.04		dB
vs. Temperature	−40°C ≤ T_A ≤ +105°C		±0.29		dB
vs. Supply	4.75 V to 5.25 V		±0.02		dB
Output 1 dB Compression Point			20.2		dBm
Output Third-Order Intercept	Δf = 1 MHz, output power (P_{OUT}) = 3 dBm per tone		34.6		dBm
Noise Figure[1]			2.1		dB
FREQUENCY = 700 MHz					
Gain			18.4		dB
vs. Frequency	±50 MHz		±0.02		dB
vs. Temperature	−40°C ≤ T_A ≤ +105°C		±0.23		dB
vs. Supply	4.75 V to 5.25 V		±0.04		dB
Output 1 dB Compression Point			20.4		dBm
Output Third-Order Intercept	Δf = 1 MHz, P_{OUT} = 3 dBm per tone		38.4		dBm
Noise Figure[1]			2.2		dB
FREQUENCY = 900 MHz					
Gain		17.4	18.4	19.4	dB
vs. Frequency	±50 MHz		±0.01		dB
vs. Temperature	−40°C ≤ T_A ≤ +105°C		±0.22		dB
vs. Supply	4.75 V to 5.25 V		±0.05		dB
Output 1 dB Compression Point			20.4		dBm
Output Third-Order Intercept	Δf = 1 MHz, P_{OUT} = 3 dBm per tone		38.8		dBm
Noise Figure			2.2		dB
FREQUENCY = 1900 MHz					
Gain		16.9	17.9	18.9	dB
vs. Frequency	±50 MHz		±0.05		dB
vs. Temperature	−40°C ≤ T_A ≤ +105°C		±0.23		dB
vs. Supply	4.75 V to 5.25 V		±0.11		dB
Output 1 dB Compression Point			20.1		dBm
Output Third-Order Intercept	Δf = 1 MHz, P_{OUT} = 3 dBm per tone		38.7		dBm
Noise Figure[1]			2.5		dB

Parameter	Test Conditions/Comments	Min	Typ	Max	Unit
FREQUENCY = 2140 MHz					
Gain			17.8		dB
vs. Frequency	±50 MHz		±0.03		dB
vs. Temperature	−40°C ≤ T_A ≤ +105°C		±0.25		dB
vs. Supply	4.75 V to 5.25 V		±0.13		dB
Output 1 dB Compression Point			19.9		dBm
Output Third-Order Intercept	Δf = 1 MHz, P_{OUT} = 3 dBm per tone		36.8		dBm
Noise Figure[1]			2.7		dB
FREQUENCY = 2600 MHz					
Gain			17.5		dB
vs. Frequency	±50 MHz		±0.03		dB
vs. Temperature	−40°C ≤ T_A ≤ +105°C		±0.28		dB
vs. Supply	4.75 V to 5.25 V		±0.15		dB
Output 1 dB Compression Point			18.7		dBm
Output Third-Order Intercept	Δf = 1 MHz, P_{OUT} = 3 dBm per tone		33.5		dBm
Noise Figure[1]			2.8		dB
FREQUENCY = 3500 MHz					
Gain			17.6		dB
vs. Frequency	±50 MHz		±0.04		dB
vs. Temperature	−40°C ≤ T_A ≤ +105°C		±0.45		dB
vs. Supply	4.75 V to 5.25 V		±0.19		dB
Output 1 dB Compression Point			17.4		dBm
Output Third-Order Intercept	Δf = 1 MHz, P_{OUT} = 3 dBm per tone		29.4		dBm
Noise Figure[1]			3.0		dB
FREQUENCY = 4000 MHz					
Gain			17.9		dB
vs. Frequency	±50 MHz		±0.04		dB
vs. Temperature	−40°C ≤ T_A ≤ +105°C		±0.84		dB
vs. Supply	4.75 V to 5.25 V		±0.24		dB
Output 1 dB Compression Point			16.4		dBm
Output Third-Order Intercept	Δf = 1 MHz, P_{OUT} = 3 dBm per tone		27.6		dBm
Noise Figure[1]			3.2		dB
FREQUENCY = 5000 MHz					
Gain			15.3		dB
vs. Frequency	±50 MHz		±0.11		dB
vs. Temperature	−40°C ≤ T_A ≤ +105°C		±1.27		dB
vs. Supply	4.75 V to 5.25 V		±0.33		dB
Output 1 dB Compression Point			15.7		dBm
Output Third-Order Intercept	Δf = 1 MHz, P_{OUT} = 3 dBm per tone		26.1		dBm
Noise Figure			4.4		dB
FREQUENCY = 5800 MHz					
Gain			13.2		dB
vs. Frequency	±50 MHz		±0.08		dB
vs. Temperature	−40°C ≤ T_A ≤ +105°C		±1.36		dB
vs. Supply	4.75 V to 5.25 V		±0.33		dB
Output 1 dB Compression Point			12.5		dBm
Output Third-Order Intercept	Δf = 1 MHz, P_{OUT} = 3 dBm per tone		21.2		dBm
Noise Figure[1]			6.1		dB

Parameter	Test Conditions/Comments	Min	Typ	Max	Unit
POWER INTERFACE					
Supply Voltage	V_{POS}	4.75	5	5.25	V
Supply Current			92	118	mA
vs. Temperature	$-40°C \le T_A \le +105°C$		−6/+14		mA
Power Dissipation			460		mW

[1] Noise figure specified includes printed circuit board (PCB) traces losses.

TYPICAL SCATTERING PARAMETERS (S-PARAMETERS)

V_{POS} = 5 V and T_A = 25°C.

Table 2.

Frequency (MHz)	S11		S21		S12		S22	
	Magnitude (dB)	Angle (°)	Magnitude (dB)	Angle (°)	Magnitude (dB)	Angle (°)	Magnitude (dB)	Angle (°)
30	−19.575	−21.758	18.186	+167.401	−23.536	+0.034	−12.040	−154.592
50	−13.194	+17.280	+16.748	+158.342	−24.873	−11.954	−8.336	−158.609
100	−8.023	−17.286	+13.552	+168.911	−27.865	−5.368	−5.677	−189.790
200	−10.635	−67.774	+16.801	+171.154	−24.787	−2.040	−8.176	−225.737
300	−13.978	−93.402	+17.960	+154.322	−23.679	−16.582	−10.953	−237.962
400	−16.890	−111.950	+18.355	+138.243	−23.336	−29.568	−12.818	−242.287
500	−14.057	−140.270	+18.204	−229.198	−23.467	−33.884	−10.083	+104.308
600	−15.303	−160.894	+18.339	−243.615	−23.322	−45.046	−10.629	+98.947
700	−17.025	−180.268	+18.416	−258.515	−23.214	−56.945	−11.317	+95.056
800	−18.532	−198.771	+18.434	−272.822	−23.143	−68.374	−11.700	+91.300
900	−19.926	−216.383	+18.425	−286.779	−23.102	−79.290	−11.891	+87.191
1000	−21.266	−233.373	+18.401	−300.434	−23.099	−90.132	−11.967	+82.648
1100	−22.659	−248.512	+18.366	−313.941	−23.071	−100.705	−11.951	+77.917
1200	−24.210	−262.937	+18.320	−327.244	−23.068	−111.189	−11.897	+72.400
1300	−26.057	−274.666	+18.272	−340.437	−23.063	−121.632	−11.812	+66.929
1400	−28.536	−282.527	+18.220	−353.552	−23.065	−131.946	−11.702	+61.131
1500	−31.933	−279.454	+18.166	−366.576	−23.063	−142.239	−11.599	+55.505
1600	−34.750	−255.300	+18.106	−379.548	−23.067	−152.499	−11.467	+49.533
1700	−32.172	−220.241	+18.046	−392.387	−23.070	−162.725	−11.381	+43.914
1800	−27.781	−211.620	+17.977	−405.225	−23.085	−173.046	−11.275	+38.152
1900	−24.468	−218.185	+17.916	−418.174	−23.047	−183.266	−11.132	+32.216
2000	−21.613	−222.836	+17.843	−430.638	−23.111	−193.454	−11.136	+27.227
2100	−19.342	−232.483	+17.783	−443.294	−23.127	−203.629	−11.017	+21.933
2200	−17.343	−243.288	+17.740	−455.878	−23.141	−213.605	−10.826	+16.768
2300	−15.863	−253.959	+17.682	−468.509	−23.139	−223.746	−10.670	+10.889
2400	−14.592	−264.759	+17.629	−481.088	−23.129	−233.823	−10.488	+4.907
2500	−13.521	−275.854	+17.583	−493.684	−23.123	−243.825	−10.295	−1.461
2600	−12.680	−286.432	+17.533	−506.169	−23.114	−254.026	−10.160	−8.539
2700	−11.965	−296.744	+17.494	−518.608	−23.122	−264.148	−10.022	−15.582
2800	−11.364	−307.385	+17.466	−531.068	−23.105	−274.109	−9.909	−23.543
2900	−10.983	−318.098	+17.441	−543.539	−23.013	−284.190	−9.885	−32.338
3000	−10.683	−328.063	+17.448	−555.886	−22.967	−294.664	−9.958	−41.038
3100	−10.470	−338.914	+17.468	−568.495	−22.910	−304.790	−10.016	−50.760
3200	−10.377	−349.594	+17.503	−581.114	−22.848	−315.180	−10.207	−61.042
3300	−10.454	−360.106	+17.556	−593.755	−22.757	−325.637	−10.506	−72.485
3400	−10.733	−371.185	+17.609	−606.730	−22.674	−336.157	−10.842	−85.064
3500	−11.222	−381.299	+17.683	−619.682	−22.581	−346.908	−11.291	−98.903

Frequency (MHz)	S11		S21		S12		S22	
	Magnitude (dB)	Angle (°)	Magnitude (dB)	Angle (°)	Magnitude (dB)	Angle (°)	Magnitude (dB)	Angle (°)
3600	−11.851	−392.155	+17.768	−633.032	−22.457	−358.060	−11.908	−114.642
3700	−12.849	−403.342	+17.830	−646.607	−22.372	−369.044	−12.522	−132.684
3800	−14.417	−413.805	+17.904	−660.333	−22.234	−380.712	−13.184	−153.495
3900	−16.531	−425.971	+17.938	−674.447	−22.200	−392.377	−13.538	−177.923
4000	−19.249	−436.011	+18.010	−689.430	−22.085	−405.026	−13.882	−202.196
4100	−24.999	−460.302	+17.915	−704.472	−22.195	−417.459	−13.296	−228.659
4200	−32.089	−556.369	+17.769	−719.835	−22.338	−430.127	−12.342	−252.450
4300	−21.011	−617.527	+17.448	−735.470	−22.655	−442.759	−11.165	−273.722
4440	−14.797	−639.680	+16.876	−750.505	−23.014	−453.711	−9.840	−292.336
4500	−10.740	−661.435	+16.212	−763.011	−23.353	−463.267	−8.338	−310.540
4600	−8.451	−681.844	+15.849	−773.947	−23.431	−472.943	−7.134	−329.131
4700	−7.237	−698.863	+15.707	−785.709	−23.418	−483.451	−6.336	−346.718
4800	−6.447	−713.011	+15.581	−798.441	−23.453	−494.525	−5.808	−362.618
4900	−5.907	−724.933	+15.413	−811.388	−23.569	−505.774	−5.457	−377.358
5000	−5.507	−735.570	+15.210	−824.332	−23.748	−516.626	−5.207	−391.101
5100	−5.147	−745.147	+14.998	−837.253	−23.929	−527.665	−5.106	−404.171
5200	−4.964	−754.155	+14.767	−850.018	−23.998	−538.788	−5.099	−416.123
5300	−4.929	−762.147	+14.507	−862.399	−24.155	−548.537	−5.180	−428.050
5400	−4.758	−770.468	+14.376	−874.651	−24.220	−559.477	−5.313	−440.141
5500	−4.735	−779.351	+14.216	−887.558	−24.481	−568.644	−5.672	−453.016
5600	−4.686	−786.735	+14.109	−900.141	−24.355	−579.878	−6.142	−464.297
5700	−4.708	−793.953	+13.986	−913.048	−24.406	−589.889	−6.809	−476.641
5800	−4.782	−800.356	+13.873	−925.986	−24.277	−599.855	−7.749	−488.815
5900	−4.821	−807.419	+13.750	−939.485	−24.360	−611.222	−8.867	−501.594
6000	−4.831	−812.689	+13.663	−952.755	−24.108	−622.580	−10.361	−513.719

ABSOLUTE MAXIMUM RATINGS

Table 3.

Parameter	Rating
Supply Voltage, V_{POS}	6.5 V
Input Power (50 Ω Impedance)	20 dBm
Internal Power Dissipation (Pad Soldered to Ground)	800 mW
ESD Human Body Model (HBM) Rating (ESDA/JEDEC JS-001-2011)	±1.5 kV
Maximum Junction Temperature	150°C
Operating Temperature Range	−40°C to +105°C
Storage Temperature Range	−65°C to +150°C

Stresses at or above those listed under Absolute Maximum Ratings may cause permanent damage to the product. This is a stress rating only; functional operation of the product at these or any other conditions above those indicated in the operational section of this specification is not implied. Operation beyond the maximum operating conditions for extended periods may affect product reliability.

THERMAL RESISTANCE

Table 4 lists the junction-to-air thermal resistance (θ_{JA}) and the junction-to-case thermal resistance (θ_{JC}) for the ADL5610.

Table 4. Thermal Resistance

Package Type	θ_{JA}[1]	θ_{JC}[2]	Unit
3-Lead SOT-89 (RK-3)	52	9	°C/W

[1] Measured on the ADL5610 evaluation board. For more information about board layout, see the Soldering Information and Recommended PCB Land Pattern section.
[2] Based on simulation with a standard JEDEC board per JESD51.

ESD CAUTION



ESD (electrostatic discharge) sensitive device. Charged devices and circuit boards can discharge without detection. Although this product features patented or proprietary protection circuitry, damage may occur on devices subjected to high energy ESD. Therefore, proper ESD precautions should be taken to avoid performance degradation or loss of functionality.

PIN CONFIGURATION AND FUNCTION DESCRIPTIONS

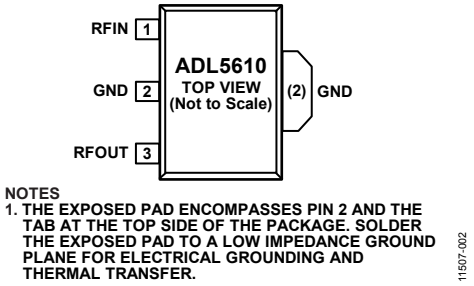


Figure 2. Pin Configuration

Table 5. Pin Function Descriptions

Pin No.	Mnemonic	Description
1	RFIN	RF Input. This pin requires a dc blocking capacitor.
2	GND	Ground. Connect this pin to a low impedance ground plane.
3	RFOUT	RF Output and Supply Voltage. DC bias is provided to this pin through an inductor that is connected to the external power supply. The RF path requires a dc blocking capacitor.
	EPAD	Exposed Pad. The exposed pad encompasses Pin 2 and the tab at the top side of the package. Solder the exposed pad to a low impedance ground plane for electrical grounding and thermal transfer.

TYPICAL PERFORMANCE CHARACTERISTICS

500 MHz TO 6 GHz FREQUENCY BAND

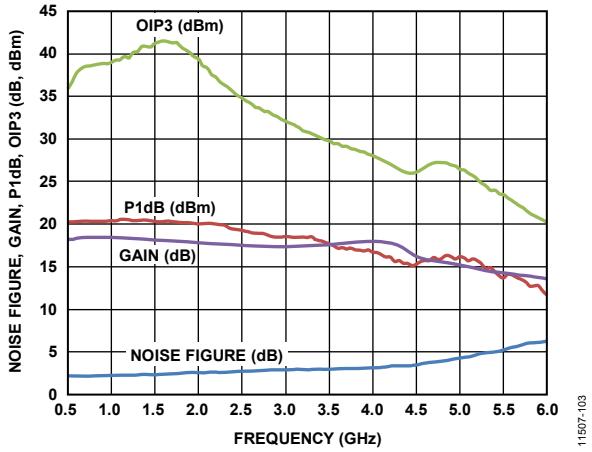


Figure 3. Noise Figure, Gain, P1dB, and OIP3 vs. Frequency

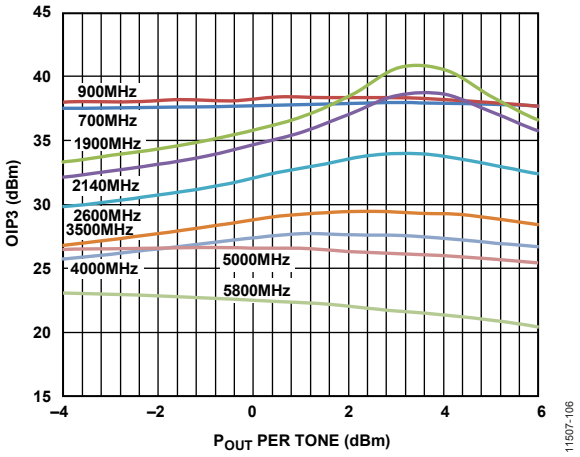


Figure 6. OIP3 vs. Output Power (P_{OUT}) and Frequency

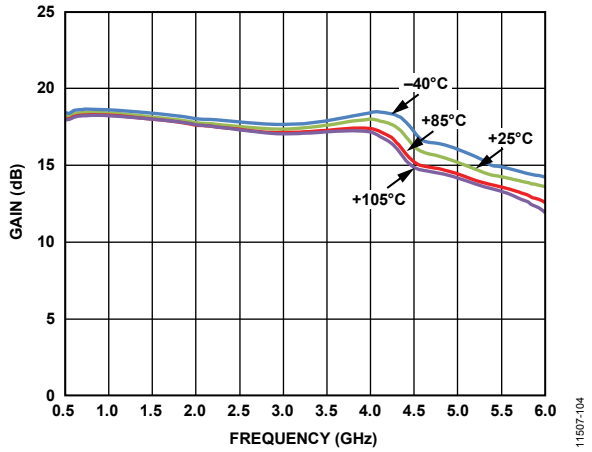


Figure 4. Gain vs. Frequency and Temperature

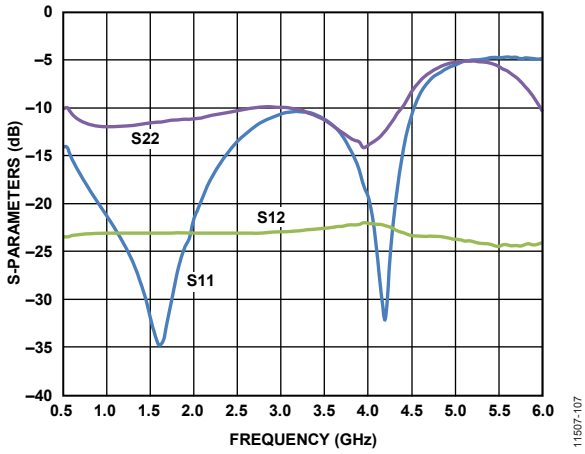


Figure 7. Output Return Loss (S22), Input Return Loss (S11), and Reverse Isolation (S12) vs. Frequency

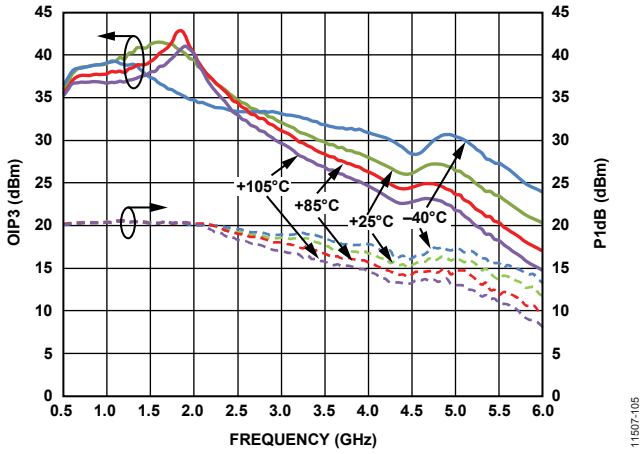


Figure 5. OIP3 and P1dB vs. Frequency and Temperature

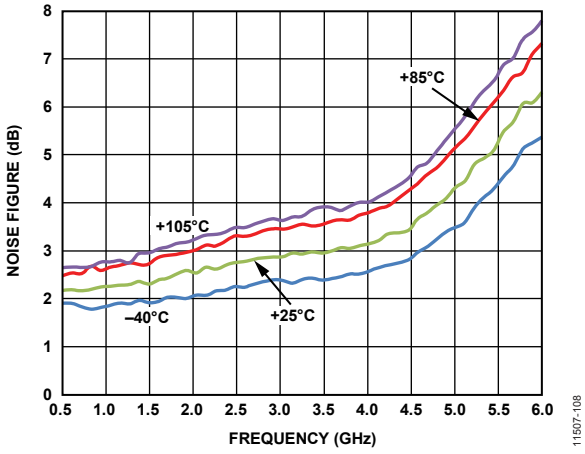


Figure 8. Noise Figure vs. Frequency and Temperature

30 MHz TO 500 MHz FREQUENCY BAND

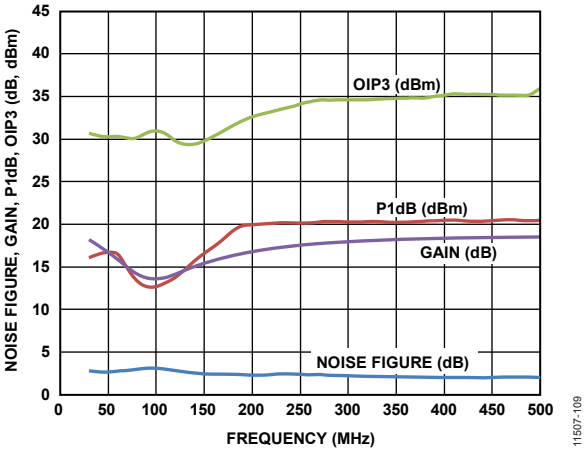


Figure 9. Noise Figure, Gain, P1dB, and OIP3 vs. Frequency, Low Frequency Configuration

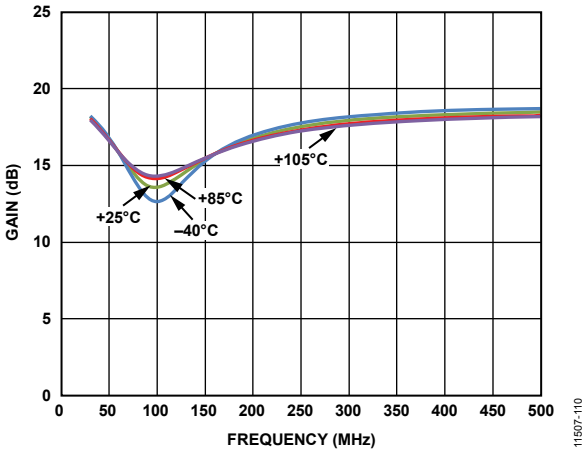


Figure 10. Gain vs. Frequency and Temperature, Low Frequency Configuration

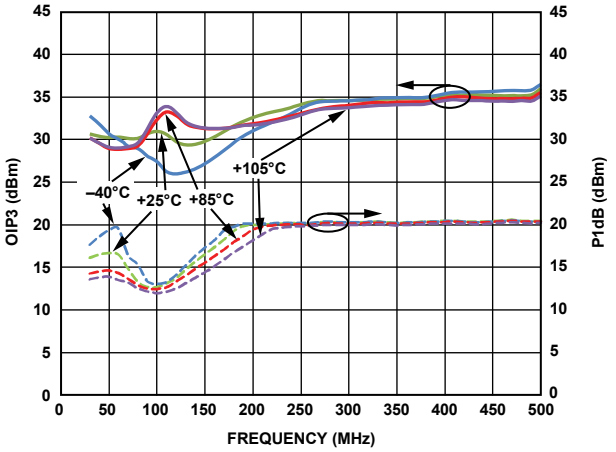


Figure 11. OIP3 and P1dB vs. Frequency and Temperature, Low Frequency Configuration

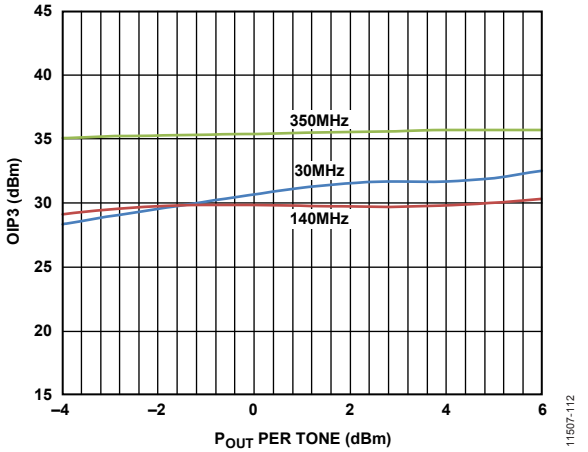


Figure 12. OIP3 vs. Output Power (P_{OUT}) and Frequency, Low Frequency Configuration

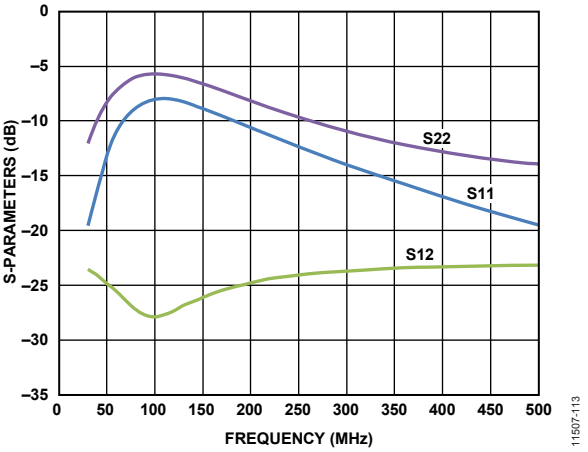


Figure 13. Output Return Loss (S22), Input Return Loss (S11), and Reverse Isolation (S12) vs. Frequency, Low Frequency Configuration

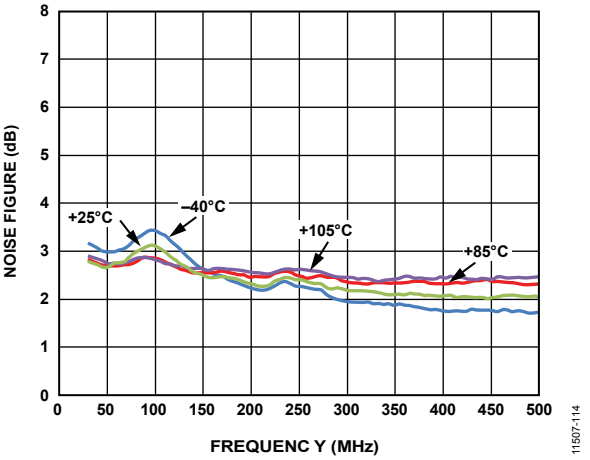


Figure 14. Noise Figure vs. Frequency and Temperature, Low Frequency Configuration

GENERAL

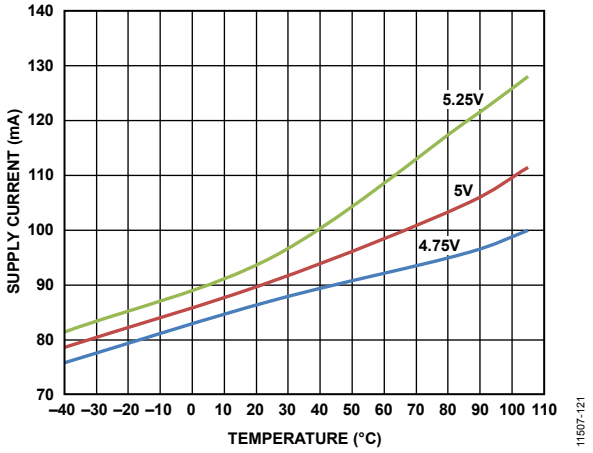


Figure 15. Supply Current vs. Temperature

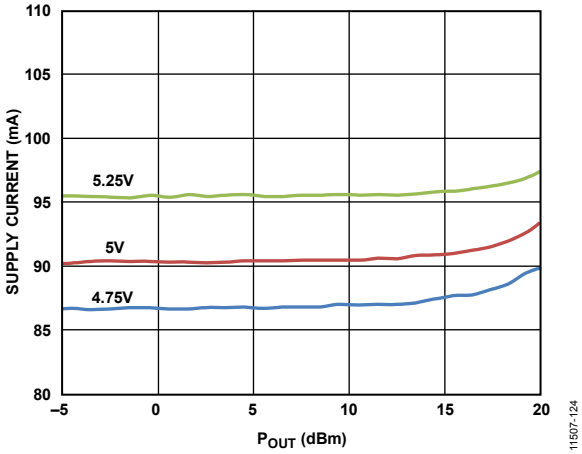


Figure 18. Supply Current vs. P_{OUT} at 900 MHz

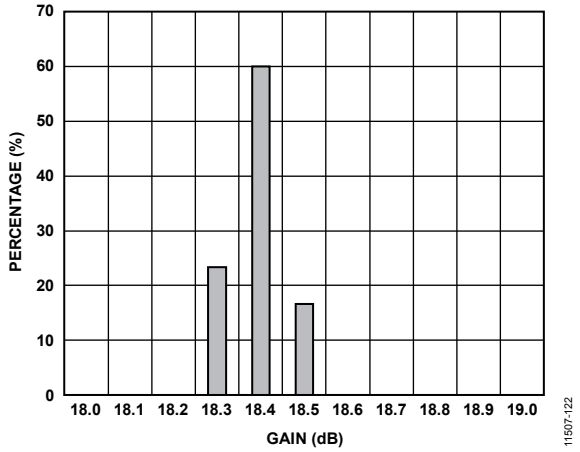


Figure 16. Gain Distribution at 900 MHz

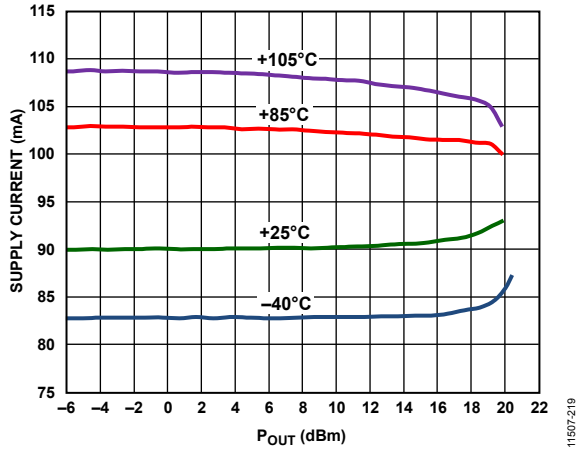


Figure 19. Supply Current vs. P_{OUT} and Temperature, V_{CC} = 5 V at 900 MHz

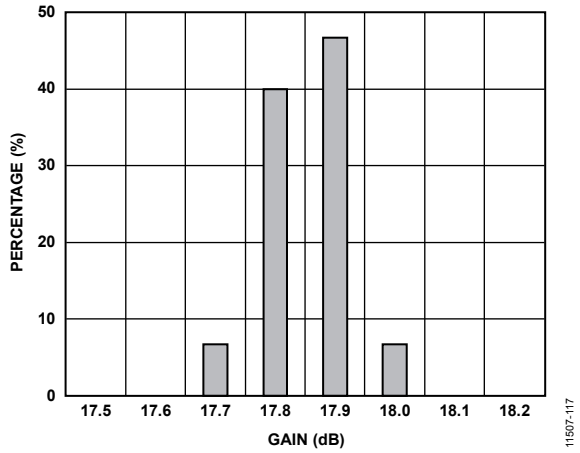


Figure 17. Gain Distribution at 1900 MHz

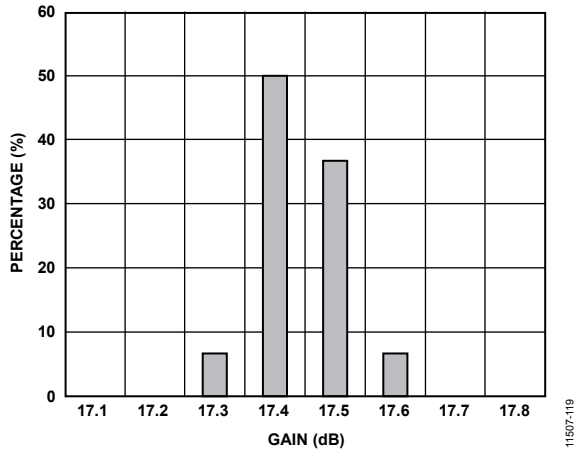


Figure 20. Gain Distribution at 2600 MHz

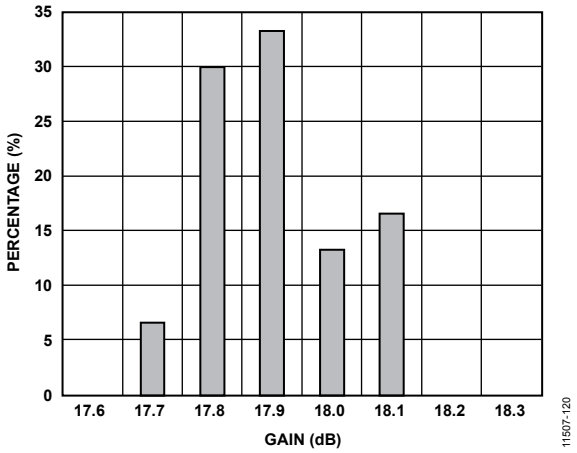


Figure 21. Gain Distribution at 4000 MHz

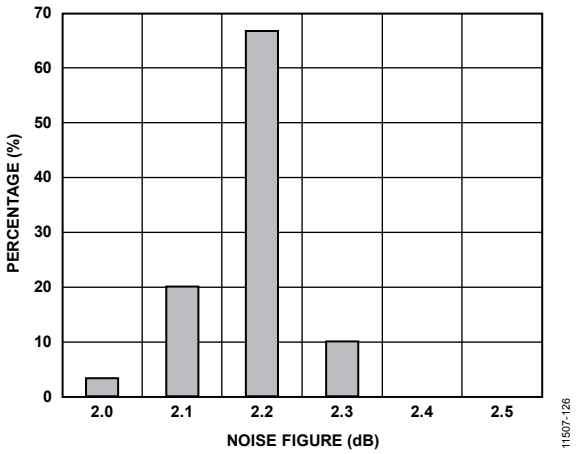


Figure 24. Noise Figure Distribution at 900 MHz

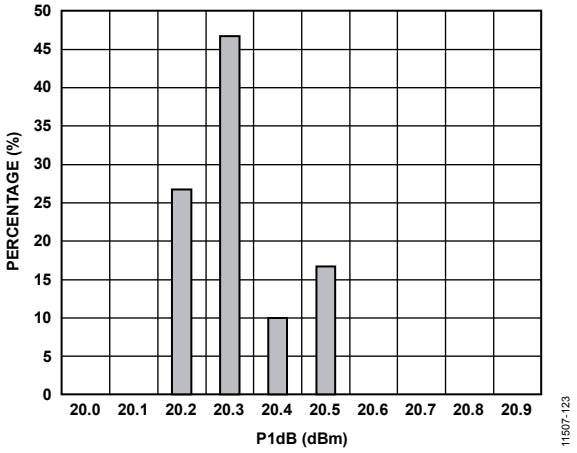


Figure 22. P1dB Distribution at 900 MHz

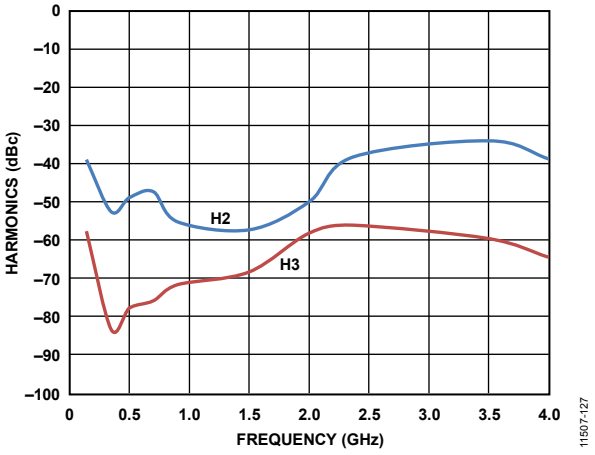


Figure 25. Single-Tone Harmonics vs. Frequency, P_{OUT} = 0 dBm

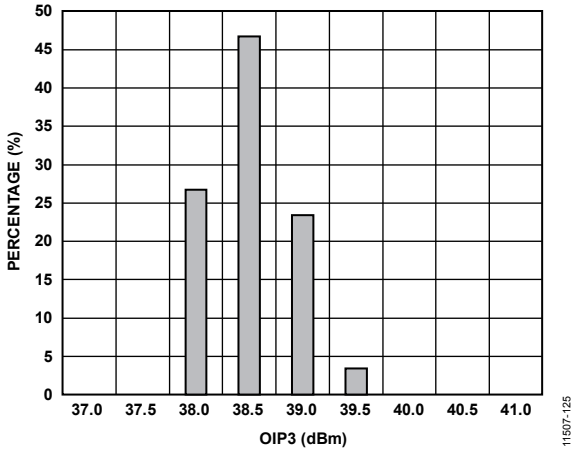


Figure 23. OIP3 Distribution at 900 MHz, P_{OUT} = 3 dBm per Tone

APPLICATIONS INFORMATION

BASIC CONNECTIONS

Figure 26 shows the basic connections for operating the ADL5610. The device supports operation from 30 MHz to 6 GHz. However, for optimal performance at lower frequency bands, the board configuration must be adjusted. Table 6 lists the recommended board configuration to operate the device at various frequency bands.

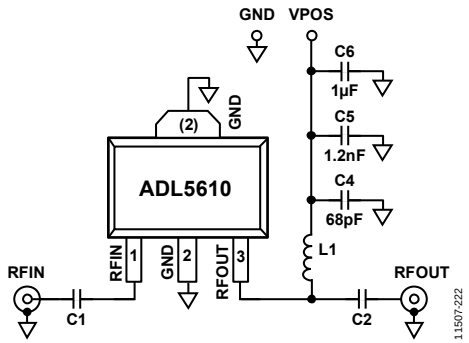


Figure 26. Basic Connections

A 5 V dc bias is supplied to the amplifier through the bias inductor connected to RFOUT (Pin 3). Decouple the bias voltage using 68 pF, 1.2 nF, and 1 µF power supply decoupling capacitors. The typical current consumption for the ADL5610 is 92 mA.

At low frequencies, the device exhibits improved performance with the suggested setup configuration listed in Table 6. Figure 27 and Figure 28 provide a comparison of the performance of the device at the 30 MHz to 500 MHz band when driven with the optimal setup configuration and the default setup configuration.

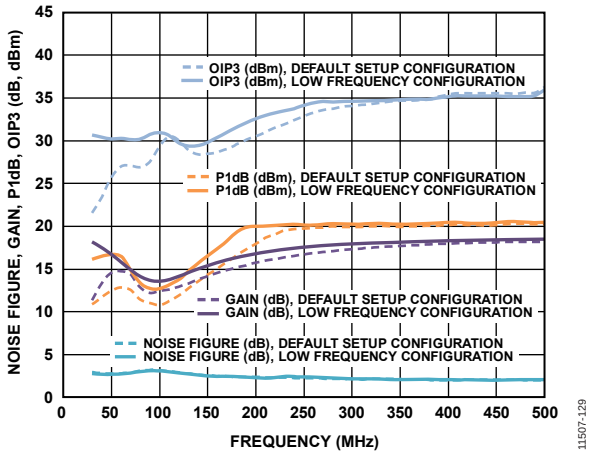


Figure 27. Noise Figure, Gain, P1dB, and OIP3 vs. Frequency, 30 MHz to 500 MHz, Comparison of Performance with the Optimized Settings and the Default Configuration

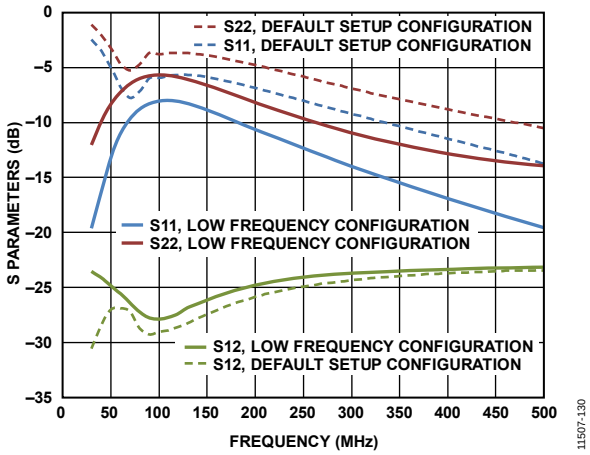


Figure 28. Output Return Loss (S22), Input Return Loss (S11), and Reverse Isolation (S12), 30 MHz to 500 MHz, Comparison of Performance with the Optimized Settings and the Default Configuration

Table 6. Recommended Components for Basic Connections

	AC Coupling Capacitors (0402)		DC Bias Inductor (0603HP)
Frequency Band	**C1 (nF)**	**C2 (nF)**	**L1 (nH)**
500 MHz to 6 GHz	100	100	43
30 MHz to 500 MHz	100	100	1000

SOLDERING INFORMATION AND RECOMMENDED PCB LAND PATTERN

Figure 29 shows the recommended land pattern for the ADL5610. To minimize thermal impedance, the exposed pad on the underside of the SOT-89 package is soldered to a ground plane, along with Pin 2. If multiple ground layers exist, stitch the layers together using vias.

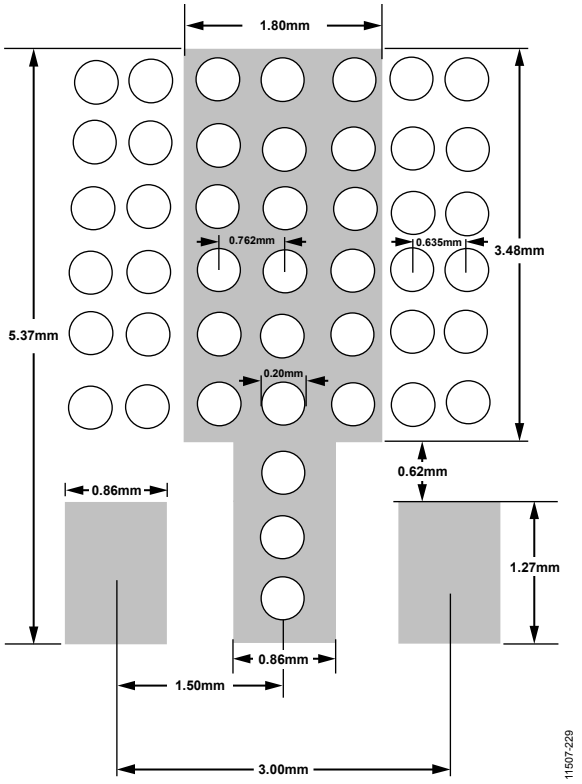


Figure 29. Recommended Land Pattern

The land pattern on the ADL5610 evaluation board provides a measured thermal resistance (θ_{JA}) of 52°C/W. To measure θ_{JA}, the temperature at the top of the SOT-89 package is sensed with an IR temperature gun. Thermal simulation suggests a junction temperature that is 10°C higher than the top-of-package temperature. With additional measurements of the ambient temperature and input/output (I/O) power, θ_{JA} can be determined.

W-CDMA ACPR PERFORMANCE

Figure 30 shows a plot of the adjacent channel power ratio (ACPR) vs. P_{OUT} for the ADL5610. The signal type used is a single wideband code division multiple access (W-CDMA) carrier (Test Model 1-64) at 2140 MHz. This signal is generated by a very low ACPR source. ACPR is measured at the output by a high dynamic range spectrum analyzer that incorporates an instrument noise correction function.

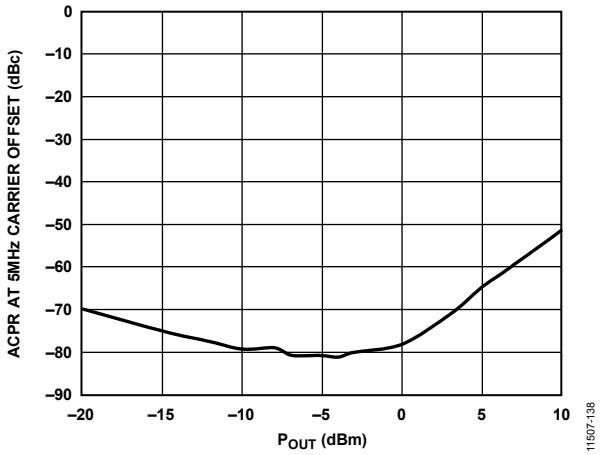


Figure 30. ACPR vs. P_{OUT}, Single W-CDMA Carrier (Test Model 1-64) at 2140 MHz

The ADL5610 achieves an ACPR of −81 dBc at an output power level of −5 dBm, at which point the device noise and not distortion begins to dominate the power in the adjacent channels. At an output power level of 5 dBm, ACPR is still very low at −65 dBc.

EVALUATION BOARD

Figure 31 shows the ADL5610 evaluation board layout. Figure 32 shows the schematic for the evaluation board. The board is powered by a single 5 V supply. Table 7 lists the components used on the evaluation board. Power can be applied to the board through clip-on terminals (VCC and GND).

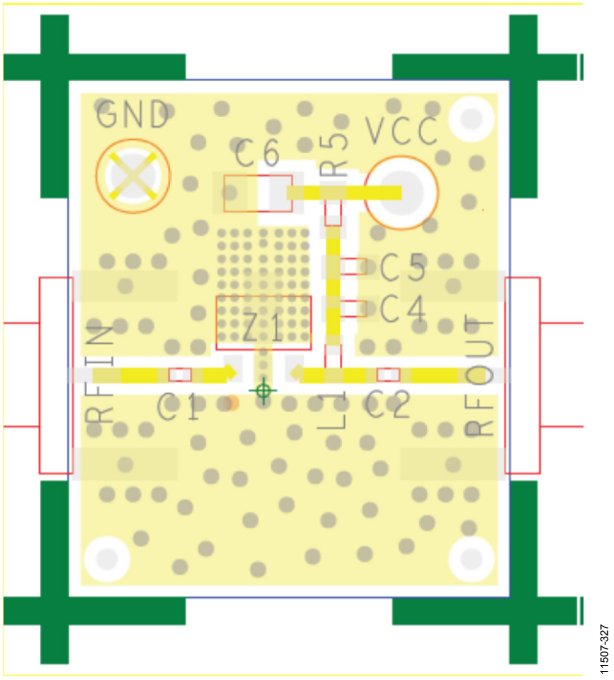


Figure 31. Evaluation Board Layout (Top)

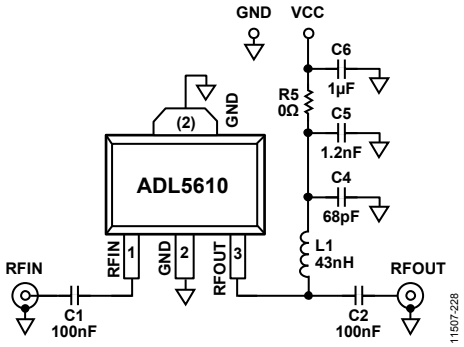
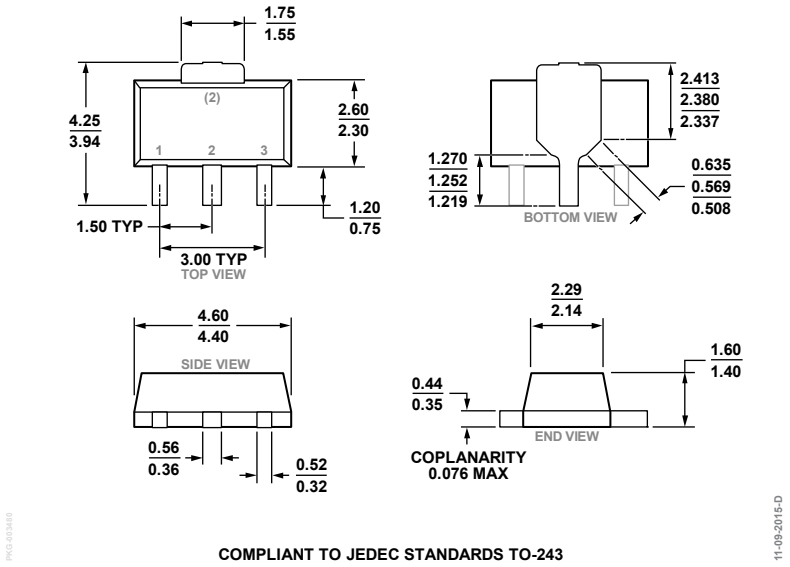


Figure 32. Evaluation Board Schematic

Table 7. Evaluation Board Configuration Options

Component	Description	Default Value
C1, C2	AC coupling capacitors	C1, C2 = 100 nF, 0402
L1	DC bias inductor	L1 = 43 nH, 0603 (Coilcraft 0603HP or equivalent)
R5	Bias resistor	R5 = 0 Ω, 0402
VCC and GND	Clip-on terminals for power supply	Not applicable
C4, C5, C6	Power supply decoupling capacitors	C4 = 68 pF, 0603; C5 = 1.2 nF, 0603; C6 = 1 µF, 1206

OUTLINE DIMENSIONS



COMPLIANT TO JEDEC STANDARDS TO-243

Figure 33. 3-Lead Small Outline Transistor Package [SOT-89]
(RK-3)
Dimensions shown in millimeters

ORDERING GUIDE

Model[1]	Temperature Range	Package Description	Package Option
ADL5610ARKZ-R7	−40°C to +105°C	3-Lead SOT-89, 7″ Tape and Reel	RK-3
ADL5610-EVALZ		Evaluation Board	

[1] Z = RoHS Compliant Part.

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