ABSOLUTE MAXIMUM RATINGS

(Note 1)	
Power Supply Voltage	5.5V
Enable Voltage –0.2V, V _{CC} -	+ 0.2V
Input Power (Note 2) 2	2dBm
Operating Ambient Temperature Range40°C to) 85°C
Storage Temperature Range –65°C to	125°C
Maximum Junction Temperature	125°C

PACKAGE/ORDER INFORMATION



ELECTRICAL CHARACTERISTICS $V_{CC} = 3V$, ENBL = 3V, $T_A = 25^{\circ}C$, unless otherwise specified. (Notes 3, 4)

PARAMETER	CONDITIONS	MIN TYP MAX	UNITS	
Signal Input				
Input Frequency Range	(Note 5)	10 to 1000	MHz	
Maximum Input Power for Monotonic Output	50Ω Termination			
	200MHz	14.0	dBm	
	600MHz	11.6	dBm	
	1GHz	9.4	dBm	
DC Common Mode Voltage		V _{CC} - 0.4	V	
Small-Signal Impedance	Measured at 200MHz	1.73kΩ //1.45pF		
f = 10MHz		·		
Linear Dynamic Range	±3dB Error	88.8	dB	
	±1dB Error	72.5	dB	
Slope	R1 = 33k (Note 8) 19.6			
Intercept	V _{OUT} = 0V, Extrapolated -97			
Sensitivity (Notes 3, 7) –70		-76.7	dBm	
Temperature Coefficient	P _{IN} = -20dBm -0.007		dB/°C	
f = 50MHz				
Linear Dynamic Range	±3dB Error	90.6	dB	
	±1dB Error	81.0	dB	
Slope	pe R1 = 33k (Note 8) 20			
Intercept	V _{OUT} = 0V, Extrapolated -96			
Sensitivity	(Notes 3, 7) –77.2			
Temperature Coefficient	$P_{IN} = -20 dBm$	-0.005	dB/°C	



ELECTRICAL CHARACTERISTICS $V_{CC} = 3V$, ENBL = 3V, $T_A = 25^{\circ}C$, unless otherwise specified. (Notes 3, 4)

PARAMETER	CONDITIONS	MIN TYP MAX	UNITS	
f = 100MHz		I		
Linear Dynamic Range	±3dB Error	90.5	dB	
,	±1dB Error	82.8	dB	
Slope	R1 = 33k (Note 8) 20.3			
Intercept	V _{OUT} = 0V, Extrapolated	-95	dBm	
Sensitivity	(Notes 3, 7)	-77	dBm	
Temperature Coefficient	$P_{IN} = -20 dBm$	-0.004	dB/°C	
f = 200MHz	·	·		
Linear Dynamic Range	±3dB Error	90.3	dB	
	±1dB Error	83.5	dB	
Slope	R1 = 33k (Note 8)	21.2	mV/dB	
Intercept	V _{OUT} = 0V, Extrapolated	-94	dBm	
Sensitivity	(Notes 3, 7)	-76.4	dBm	
Temperature Coefficient	$P_{IN} = -20 dBm$	0.010	dB/°C	
f = 400MHz				
Linear Dynamic Range	±3dB Error	88.2	dB	
	±1dB Error	70.8	dB	
Slope	R1 = 33k (Note 8)	23.1	mV/dB	
Intercept	$V_{OUT} = 0V$, Extrapolated	-91	dBm	
Sensitivity	(Notes 3, 7)	-75.3	dBm	
Temperature Coefficient	$P_{IN} = -20 dBm$	0.019	dB/°C	
f = 600MHz				
Linear Dynamic Range	±3dB Error	85.8	dB	
	±1dB Error	72.5	dB	
Slope	R1 = 33k (Note 8)	25.2	mV/dB	
Intercept	V _{OUT} = 0V, Extrapolated -89			
Sensitivity	ivity (Notes 3, 7) -74.1			
Temperature Coefficient	$P_{IN} = -20 dBm$	0.026	dB/°C	
f = 1GHz				
Linear Dynamic Range	±3dB Error	63.5	dB	
	±1dB Error	51.7	dB	
Slope	R1 = 33k (Note 8)	31.4	mV/dB	
Intercept	$V_{OUT} = 0V$, Extrapolated	-80	dBm	
Sensitivity	(Notes 3, 7)	-69.2	dBm	
Temperature Coefficient	$P_{IN} = -20 dBm$	0.031	dB/°C	
Output				
Starting Voltage	No RF Signal Present	0.4	V	
Response Time Input from –30dBm to 0dBm, C _{LOAD} = 2.5pF		110	ns	
Baseband Modulation Bandwidth	Output Load Capacitance = 2.5pF	6	MHz	
Shutdown Mode	I	1		
ENBL = High (On)		1	V	
VBL = Low (Off) 0.3		V		
ENBL Input Current	V _{ENBL} = 3V	100	μA	
- 	V _{ENBL} = 0V	0	μA	
Turn-On Time		100	μs	
Turn-Off Time		100	μs	
			5537fa	



ELECTRICAL CHARACTERISTICS $V_{CC} = 3V$, ENBL = 3V, $T_A = 25^{\circ}C$, unless otherwise specified. (Notes 3, 4)

PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNITS
Power Supply	·				
Supply Voltage	(Note 6)	2.7		5.25	V
Supply Current	V _{CC} = 3V	10	13.5	15	mA
Shutdown Current	ENBL = Low		500		μA

Note 1: Stresses beyond those listed under Absolute Maximum Ratings may cause permanent damage to the device. Exposure to any Absolute Maximum Rating condition for extended periods may affect device reliability and lifetime.

Note 2: Maximum differential AC input voltage between IN⁺ and IN⁻ is 4V peak. Equivalent to 22dBm with 50Ω input impedance or 16dBm with 200Ω input impedance (1:4 transformer used).

Note 3: Tests are performed as shown in the configuration of Figure 13.

Note 4: Specifications over the -40°C to 85°C temperature range are assured by design, characterization and correlation with statistical process control.

Note 5: Operation at lower frequency is possible as described in the "Low Frequency Operation" section in Applications Information.

Note 6: The maximum output voltage is limited to approximately $V_{CC} - 0.6V$. Either the output slope should be reduced or input power level should be limited in order to avoid saturating the output circuit when $V_{CC} < 3V$. See discussion in "Dynamic Range" section.

Note 7: Sensitivity is defined as the minimum input power required for the output voltage to be within 3dB of the ideal log-linear transfer curve. Sensitivity can be improved by as much as 10dB by using a narrowband input impedance transformation network. See discussion in "Input Matching" section.

Note 8: The output slope is adjustable using an external pull-down resistor (R1). See Applications Information for description of the output circuit.

TYPICAL PERFORMANCE CHARACTERISTICS





ENBL Current vs Supply Voltage



TYPICAL PERFORMANCE CHARACTERISTICS





TYPICAL PERFORMANCE CHARACTERISTICS











PIN FUNCTIONS

ENBL (Pin 1): Enable Pin. When the input voltage is higher than 1V, the circuit is ON. When the input voltage is less than 0.3V, or this pin is not connected, the chip is disabled (OFF).

IN⁺, **IN⁻** (**Pins 2**, **3**): Differential Signal Input Pins. These pins are internally biased to $V_{CC} - 0.4V$. The impedance between IN⁺ and IN⁻ is approximately 1.73k Ω //1.45pF at 200MHz. The input pins should be AC coupled.

CAP⁺, CAP⁻ (Pins 4, 5): External Filter Capacitor Pins. The minimum RF input frequency can be lowered by adding an optional external capacitor between CAP⁺ and CAP⁻.

 V_{CC} (Pin 6): Power Supply Pin. This pin should be decoupled using 1000pF and 0.1µF capacitors.

VEE (Pin 7): Ground pin.

OUT (Pin 8): Output pin.

Exposed Pad (Pin 9): Should be connected to PCB ground.

BLOCK DIAGRAM





The LT5537 provides a log-linear relationship between an RF/IF input voltage and its output. The input signal is amplified successively by limiting amplifier stages. A series of detector cells rectify the signals and produce an output current which is log-linearly related to the input power with a coefficient (I_{SLOPE}) of 3.4μ A/dB at 200MHz (independent of the input termination impedance). This coefficient is almost constant below 200MHz, but rises at higher frequency. The normalized slope variation plot in Figure 1 can be used to determine the log-linear coefficient at any frequency. The slope of the output voltage curve is determined by the total load resistance at the output terminal.

 $V_{SLOPE} = I_{SLOPE} \bullet R_{LOAD}$

The on-chip pull-down resistor is 7.2k. The total load resistance (R_{LOAD}) can be adjusted by adding external load resistance to change the output slope. For example, to achieve a log-linear rate of 20mV/dB, a 33k resistor is connected between the output pin and ground.

Slope = $3.4\mu A/dB \cdot (7.2//33) k\Omega = 20.1 mV/dB$

Additionally, an off-chip capacitor may be used to reduce the output time domain voltage ripple.



Figure 1. Slope Variation over Frequency



Figure 2. Simplified Output Circuit



Dynamic Range

The LT5537 is capable of detecting and log-converting an input signal over a wide dynamic range. The range of the output voltage may be limited, however, and the monotonicity of the output versus input at high input level may be affected if the supply voltage is low and the log-linear slope is set too high. The minimum V_{CC} to support 90dB dynamic range with 20mV/dB slope is 2.8V under nominal conditions at 25°C. The data shown in the Typical Performance Characteristics plots was taken with $V_{CC} = 3V$. If there is difficulty encountered in achieving the desired dynamic range, then the user is advised to increase the supply voltage or else to decrease the output slope by connecting a smaller valued resistor between the output and ground.



Figure 3. Simplified Input Circuit



Figure 4. Input Admittance

Input Matching

The LT5537 has a high impedance input (Figure 3). The differential input impedance is derived from S11 measurement with one of the input pins AC grounded (Figure 4). At 200MHz, the input is equivalent to 1.73k//1.45pF (Table 1).

The input dynamic range is constant in voltage terms, ranging from approximately –89dBVrms to 1dBVrms at 200MHz. The dynamic range expressed in power is dependent on the actual impedance selected in the application design.

Table 1. Parallel Equivalent RC of the LT5537 Input

FREQUENCY	R	C
100MHz	1.85kΩ	1.51pF
200MHz	1.73kΩ	1.45pF
400MHz	1.07kΩ	1.48pF
600MHz	673Ω	1.52pF
800MHz	435Ω	1.65pF
1000MHz	303Ω	1.78pF

The simplest way of input matching the LT5537 is to terminate the input signal with a 50Ω resistor and AC couple it to one of the input pins while AC grounding the other input pin (Figure 13). The sensitivity (defined as the minimum input power required for the output to be within 3dB of the ideal log-linear response) is -76.4dBm at 200MHz in this case.

To achieve the best sensitivity, the input termination impedance should be increased and the input pins should be differentially driven. An example application circuit is shown in Figure 5 which uses a transformer to step up the impedance and perform the balun function. The 240Ω resistor (R2) sets the impedance at the input of the chip to 200Ω . A 1:4 transformer is used to match the 50Ω signal source impedance to the circuit input impedance. C1 and C2 are DC blocking capacitors. This application circuit has a (3dB error) sensitivity of -82.4dBm at 200MHz.



Figure 5. Differential Input Matching to $\text{200}\Omega$



The 1:4 input transformer can also be replaced with a narrow band discrete balun circuit using three components as shown in Figure 6. Capacitors C11, C12 and inductor L1 form a tank circuit having a transformer-like function over a narrow bandwidth. The increased power-to-voltage transformation and the narrower input passband serve to improve the sensitivity of the logarithmic detector.

The resonant balun circuit using discrete components can be custom designed for a range of different input impedance or sensitivity requirements.



Figure 6. Input Matching Network

Table 2. Matching Network Component Values for 2	200MHz
Center Frequency	

SENSITIVITY (dBm)	10dB RETURN LOSS BW (MHz)	L1 (nH)	C11, C12 (pF)	R2 (Ω)	Q	EFFECTIVE INPUT RESISTANCE (Ω)
-82.4	55	82	15	330	2.1	264
-86.1	18	120	7.5	2k	3.9	828

The examples given in Table 2 cover two different transformation ratios. The first one transforms single-ended 50Ω to differential 264Ω . The V_{OUT} vs P_{IN} transfer curves in Figure 7 indicate that the input power range for linear logarithmic detection is shifted downward by 7dB with a sensitivity improvement of 6dB compared with a simple 50Ω termination. The input return loss is 30dB at the design frequency of 200MHz. Bandwidth for better than 10dB return loss is 55MHz. The second example has a higher Q of 3.9 and a corresponding transformed impedance of 828 Ω . The input power range for linear operation is shifted downward by 12dB with a sensitivity improvement of 10dB compared with a simple 50Ω termination. The input return loss is 25dB at the design frequency. Bandwidth for better than 10dB return loss is 25dB at the design frequency.



Figure 7. Measured Output with R_{IN} = 264 Ω





Figure 8. Timing Test Setup

Baseband Response

The unloaded bandwidth of the LT5537 output buffer is 10MHz. With 2.5pF loading, the output bandwidth is approximately 6MHz. The baseband response of the LT5537 was characterized with a pulsed RF input using the setup shown in Figure 8. The input to the LT5537 is a 200MHz CW RF signal switched between -30dBm and -60dBm at a rate of 600kHz. The output was connected to a FET probe (Fluke PM8943A, 10:1 tip) which has a capacitive loading of 2.5pF. The 10% to 90% rise and fall times are 109ns and 115ns, respectively. The input signal and output response are shown in Figure 9.



Figure 9. Response Time (-30dBm to -60dBm)



Table 3. Application Design Examples

DESIGN NUMBER	C1, C2	C6	INPUT Pole	INTERNAL POLE	DC Rejection BW	DC Loop PM	LOWEST Operating Frequency	APPLICATIONS
1	15nF	Open	8.5kHz	414kHz	1.13MHz	75°	1.13MHz	Minimal Component Count
2	100pF	33nF	1.3MHz	740Hz	160kHz	84°	1.3MHz	General Purpose
3	5pF	390pF	20MHz	50kHz	10MHz	60°	20MHz	HF, Fast Settling
4	47nF	2.2µF	2.8kHz	10Hz	2kHz	57°	2.8kHz	Very Low Frequency

Bold = dominant pole

Low Frequency Operation

Because the limiting amplifier stages of the LT5537 are DC coupled, the high overall gain requires DC offset control. The LT5537 has internal DC offset cancellation circuitry. The voltage at the output of the limiting amplifier is low-pass filtered, inverted and fed back to the input of the limiting amplifier. The DC cancellation also reduces the gain of the amplifier at low frequency. As a result, the LT5537 has a bandpass frequency response with a lower end determined by the bandwidth of the offset cancellation feedback loop.

The equivalent circuit of the loop filter is shown in Figure 10. C1 and C2 are the external DC blocking capacitors of the differential inputs; C6 is an optional external filter capacitor which is in parallel with an on-chip filter capacitor ($C_{INT} = 60 pF$). For analysis purposes only, the values for C6 and the on-chip filter capacitor are doubled when a single-ended equivalent circuit is derived from a differential implementation.



Figure 10. Offset Cancellation Loop Filter

The optional capacitance (C6) placed between CAP⁺ (Pin 4) and CAP⁻ (Pin 5) together with the input DC blocking capacitors C1 and C2 are used to adjust the operating frequency range. The DC offset cancellation loop contains two poles and one zero (in the low frequency region for the purpose of this analysis). The loop filter capacitance (C6 + CINT) generates one of the two poles, the input AC coupling capacitors (C1 and C2) determine the other pole and the input termination resistance leads to the zero. (The pole associated with the input AC coupling capacitor also sets the lower corner frequency of the signal path). The presence of the two poles in the circuit enables two approaches to the design of the application circuit for a desired frequency response. But stability margin has to be ensured in order to avoid ringing in response to any input transient. Table 3 lists four low frequency loop designs suitable for different applications.

Design 1 is the simplest application circuit. The external capacitor C6 is not used. The input pole is set by the AC coupling capacitors (C1, C2) and is the dominant pole at 8.5kHz. The zero generated by the input coupling capacitor and the termination resistor is at 60 times the input pole frequency. The second pole set by the on-chip filter capacitor (C_{INT}) should be at approximately the same frequency as that of the zero. This design has a stability phase margin (PM) of 75 degrees.



Design 2 is the application circuit (Figure 13) used for characterization in this data sheet. This is a robust general purpose design which can operate as low as 1.3MHz. Optional filter capacitor (C6 = 33nF) together with the onchip capacitor set the dominant pole at 740Hz. The input pole associated with the AC coupling capacitors (C1, C2 = 100pF) is at 1.3MHz which is beyond the loop cut-off frequency of 160kHz. The zero is at an even higher frequency and can be safely ignored. This design has a stability phase margin of 84 degrees, resulting in a very well damped response to any input biasing transients.

Design 3 features fast settling. This design is appropriate when fast response in the presence of input biasing transients is required, and very low frequency operation is not needed.

Design 4 demonstrates the possibility of operating the LT5537 at very low frequency (<10kHz) by configuring the offset cancellation loop for very low bandwidth. The response of this circuit at 10kHz is plotted in Figure 11.



Figure 11. 10kHz Operation

Offset Cancellation Loop and the Timing Response

The input of the LT5537 is AC coupled, and the on-chip DC biasing is automatically regulated as described above. But if the DC component of the input signal has any transient step with sufficiently short rise or fall time (for example the output of an active RF switch has a biasing shift between switching states), a transient voltage pulse is induced by the displacement current needed to charge the input AC coupling capacitor. Also, if the pulse frequency or the repetition rate is within the loop bandwidth of the offset cancellation circuit, the LT5537 will respond to the induced voltage pulse in the same way it nulls out its internal DC offset, even though the chip is DC isolated from the input signal.

If the external capacitor (C6) is used to extend the low frequency response of the LT5537, then this will also lengthen the response time of the DC offset cancellation circuit. In the presence of DC steps or glitches at the input, the transient response of the slowed offset cancellation loop will be superimposed on the faster logarithmic detector output, degrading the overall response time of the chip.

The sensitivity of the LT5537 is very high. An input biasing step with amplitude of 0.5mV can generate a output voltage response of 400mV before the input voltage transient dissipates or the offset cancellation loop nulls out the transient, whichever occurs first.

One way to prevent the input signal containing a biasing transient from degrading the timing response is to design the offset cancellation loop to have a high bandwidth, allowing faster settling. Design 3 in Table 3 is suitable for this purpose, but will not operate below 20MHz.



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Enable Pin Operation

The enable circuit of the LT5537 is shown in a simplified form in Figure 12. When the voltage at the ENBL pin is $\geq 1V$, the enable circuit biases the chip up for normal operation. The current drawn by the ENBL pin is dependent on the voltage on that pin. At V_{CC} = ENBL = 3V, the ENBL current is typically 100µA. At V_{CC} = ENBL = 5V, the ENBL current increases to about 200µA. When the voltage at the ENBL pin is $\leq 0.3V$, or if the pin is not connected, the chip is disabled and draws a reduced supply current of about 500µA, with V_{CC} = 3V.



Figure 12. Equivalent ENBL Input Circuit



Figure 13. Application Board Schematic



Figure 14. Layout of the Evalulation Board



PACKAGE DESCRIPTION



DDB Package 8-Lead Plastic DFN (3mm × 2mm) (Reference LTC DWG # 05-08-1702)

1. DRAWING CONFORMS TO VERSION (WECD-1) IN JEDEC PACKAGE OUTLINE M0-229

2. DRAWING NOT TO SCALE

3. ALL DIMENSIONS ARE IN MILLIMETERS

4. DIMENSIONS OF EXPOSED PAD ON BOTTOM OF PACKAGE DO NOT INCLUDE

MOLD FLASH. MOLD FLASH, IF PRESENT, SHALL NOT EXCEED 0.15mm ON ANY SIDE

5. EXPOSED PAD SHALL BE SOLDER PLATED

6. SHADED AREA IS ONLY A REFERENCE FOR PIN 1 LOCATION ON THE TOP AND BOTTOM OF PACKAGE



RELATED PARTS

PART NUMBER	DESCRIPTION	COMMENTS					
Infrastructure							
LT5511	High Linearity Upconverting Mixer	RF Output to 3GHz, 17dBm IIP3, Integrated LO Buffer					
LT5512	DC-3GHz High Signal Level Downconverting Mixer	DC to 3GHz, 17dBm IIP3, Integrated LO Buffer					
LT5514	Ultralow Distortion, IF Amplifier/ADC Driver with Digitally Controlled Gain	850MHz Bandwidth, 47dBm OIP3 at 100MHz, 10.5dB to 33dB Gain Control Range					
LT5515	1.5GHz to 2.5GHz Direct Conversion Quadrature Demodulator	20dBm IIP3, Integrated LO Quadrature Generator					
LT5516	0.8GHz to 1.5GHz Direct Conversion Quadrature Demodulator	21.5dBm IIP3, Integrated LO Quadrature Generator					
LT5517	40MHz to 900MHz Quadrature Demodulator	21dBm IIP3, Integrated LO Quadrature Generator					
LT5519	0.7GHz to 1.4GHz High Linearity Upconverting Mixer	17.1dBm IIP3 at 1GHz, Integrated RF Output Transformer with 50 Ω Matching, Single-Ended LO and RF Ports Operation					
LT5520	1.3GHz to 2.3GHz High Linearity Upconverting Mixer	15.9dBm IIP3 at 1.9GHz, Integrated RF Output Transformer with 50 Ω Matching, Single-Ended LO and RF Ports Operation					
LT5521	10MHz to 3700MHz High Linearity Upconverting Mixer	24.2dBm IIP3 at 1.95GHz, NF = 12.5dB, 3.15V to 5.25V Supply, Single-Ended LO Port Operation					
LT5522	400MHz to 2.7GHz High Signal Level Downconverting Mixer	$4.5V$ to $5.25V$ Supply, 25dBm IIP3 at 900MHz, NF = 12.5dB, 50 Ω Single-Ended RF and LO Ports					
LT5524	Low Power, Low Distortion ADC Driver with Digitally Programmable Gain	450MHz Bandwidth, 40dBm OIP3, 4.5dB to 27dB Gain Control					
LT5525	High Linearity, Low Power Downconverting Mixer	Single-Ended 50 Ω RF and LO Ports, 17.6dBm IIP3 at 1900MHz, I _{CC} = 28mA					
LT5526	High Linearity, Low Power Downconverting Mixer	3V to 5.3V Supply, 16.5dBm IIP3, 100kHz to 2GHz RF, NF = 11dB, I _{CC} = 28mA, -65dBm LO-RF Leakage					
LT5527	400MHz to 3.7GHz High Linearity, Downconverting Mixer	23.5dBm IIP3, 12.5dB NF at 1.9GHz, 50 Ω Single-Ended RF and LO Ports					
LT5528	1.5GHz to 2.4GHz High Linearity Direct I/Q Modulator	21.8dBm OIP3 at 2GHz, –159dBm/Hz Noise Floor, 50 Ω Interface at All Ports					
RF Power Detec	tors						
LT5504	800MHz to 2.7GHz RF Measuring Receiver	80dB Dynamic Range, Temperature Compensated, 2.7V to 5.25V Supply					
LTC [®] 5505	RF Power Detectors with >40dB Dynamic Range	300MHz to 3GHz, Temperature Compensated, 2.7V to 6V Supply					
LTC5507	100kHz to 1000MHz RF Power Detector	100kHz to 1GHz, Temperature Compensated, 2.7V to 6V Supply					
LTC5508	300MHz to 7GHz RF Power Detector	44dB Dynamic Range, Temperature Compensated, SC70 Package					
LTC5509	300MHz to 3GHz RF Power Detector	36dB Dynamic Range, Low Power Consumption, SC70 Package					
LTC5530	300MHz to 7GHz Precision RF Power Detector	Precision V _{OUT} Offset Control, Shutdown, Adjustable Gain					
LTC5531	300MHz to 7GHz Precision RF Power Detector	Precision V _{OUT} Offset Control, Shutdown, Adjustable Offset					
LTC5532	300MHz to 7GHz Precision RF Power Detector	Precision V _{OUT} Offset Control, Adjustable Gain and Offset					
LT5534	50MHz to 3GHz RF Power Detector with 60dB Dynamic Range	±1dB Output Variation over Temperature, 38ns Response Time					
LTC5536	Precision 600MHz to 7GHz RF Detector with Fast Comparator Output	25ns Response Time, Comparator Reference Input, Latch Enable Input, –26dBm to +12dBm Input Range					
Low Voltage RF	Building Block						
LT5546	500MHz Quadrature Demodulator with VGA and 17MHz Baseband Bandwidth	17MHz Baseband Bandwidth, 40MHz to 500MHz IF, 1.8V to 5.25V Supply, –7dB to 56dB Linear Power Gain					
Wide Bandwidth	ADCs						
LTC1749	12-Bit, 80Msps	500MHz BW S/H, 71.8dB SNR					
LTC1750	14-Bit, 80Msps	500MHz BW S/H, 75.5dB SNR					

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