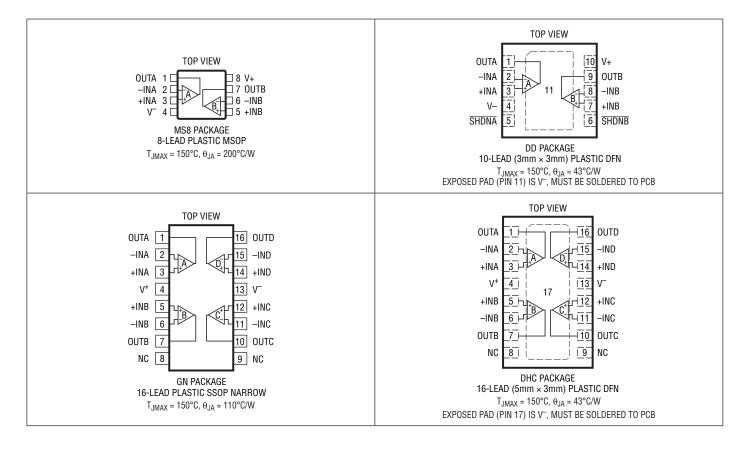
ABSOLUTE MAXIMUM RATINGS (Note 1)

Total Supply Voltage (V+ to V ⁻)	6V
Input Voltage	V ⁻ to V ⁺
Input Current	±10mA
SHDNA/SHDNB Voltage	V ⁻ to V ⁺
Output Short-Circuit Duration (Note 2)	Indefinite
Operating Temperature Range (Note 3)	
LTC6087C/LTC6088C	40°C to 85°C
LTC6087H/LTC6088H	-40°C to 125°C

Specified Temperature Range (Note 4)	
LTC6087C/LTC6088C	0°C to 70°C
LTC6087H/LTC6088H	–40°C to 125°C
Junction Temperature	150°C
Storage Temperature Range	–65°C to 150°C
Lead Temperature (Soldering, 10 sec)	
MS8, GN16 Only	300°C

PIN CONFIGURATION



ORDER INFORMATION

(http://www.linear.com/product/LTC6087-X#orderinfo)

LEAD FREE FINISH	TAPE AND REEL	PART MARKING*	PACKAGE DESCRIPTION	TEMPERATURE RANGE
LTC6087CDD#PBF	LTC6087CDD#TRPBF	LCTX	10-Lead (3mm × 3mm) Plastic DFN	-40°C to 85°C
LTC6087HDD#PBF	LTC6087HDD#TRPBF	LCTX	10-Lead (3mm × 3mm) Plastic DFN	-40°C to 125°C
LTC6087CMS8#PBF	LTC6087CMS8#TRPBF	LTCTY	8-Lead Plastic MSOP	-40°C to 85°C
LTC6087HMS8#PBF	LTC6087HMS8#TRPBF	LTCTY	8-Lead Plastic MSOP	-40°C to 125°C
LTC6088CDHC#PBF	LTC6088CDHC#TRPBF	6088	16-Lead (5mm × 3mm) Plastic DFN	-40°C to 85°C
LTC6088HDHC#PBF	LTC6088HDHC#TRPBF	6088	16-Lead (5mm × 3mm) Plastic DFN	-40°C to 125°C
LTC6088CGN#PBF	LTC6088CGN#TRPBF	6088	16-Lead Plastic SSOP	-40°C to 85°C
LTC6088HGN#PBF	LTC6088HGN#TRPBF	6088H	16-Lead Plastic SSOP	-40°C to 125°C

 $Consult\ LTC\ Marketing\ for\ parts\ specified\ with\ wider\ operating\ temperature\ ranges.\ \ ^* The\ temperature\ grade\ is\ identified\ by\ a\ label\ on\ the\ shipping\ container.$

For more information on lead free part marking, go to: http://www.linear.com/leadfree/

For more information on tape and reel specifications, go to: http://www.linear.com/tapeandreel/. Some packages are available in 500 unit reels through designated sales channels with #TRMPBF suffix.

ELECTRICAL CHARACTERISTICS The \bullet denotes the specifications which apply over the full specified temperature range, otherwise specifications are at $T_A = 25^{\circ}C$. Test conditions are $V^+ = 3V$, $V^- = 0V$, $V_{CM} = 0.5V$ unless otherwise noted.

					C SUFFI	X				
SYMBOL	PARAMETER	CONDITIONS		MIN	TYP	MAX	MIN	TYP	MAX	UNITS
V _{OS}	Offset Voltage (Note 5)	LTC6087MS8, LTC6088GN LTC6087DD, LTC6088DHC LTC6087MS8, LTC6088GN LTC6087DD, LTC6088DHC	•		±330 ±330	±750 ±1100 ±900 ±1350		±330 ±330	±750 ±1100 ±1100 ±1600	μV μV μV
$\Delta V_{0S}/\Delta T$	Input Offset Voltage Drift (Note 6)	LTC6087MS8, LTC6088GN LTC6087DD, LTC6088DHC	•		±2 ±2	±5 ±5		±2 ±2	±5 ±5	μV/°C μV/°C
I _B	Input Bias Current (Notes 5, 7)	Guaranteed by 5V Test	•		1	40		1	500	pA pA
I _{OS}	Input Offset Current (Notes 5, 7)	Guaranteed by 5V Test	•		0.5	30		0.5	150	pA pA
e _n	Input Noise Voltage Density	f = 1kHz f = 10kHz			12 10			12 10		nV/√Hz nV/√Hz
	Input Noise Voltage	0.1Hz to 10Hz			2.5			2.5		μV _{P-P}
in	Input Noise Current Density (Note 8)	f = 1Hz			0.56			0.56		fA/√Hz
	Input Common Mode Range		•	V-		V+	V-		V+	V
C _{IN}	Input Capacitance Differential Mode Common Mode	f = 100kHz			2.7 4.2			2.7 4.2		pF pF
CMRR	Common Mode Rejection Ratio	$0V \le V_{CM} \le 3V$	•	64 63	80		64 61	80		dB dB
PSRR	Power Supply Rejection Ratio	V _S = 2.7V to 5.5V	•	93 90	115		93 85	115		dB dB
V _{OUT}	Output Voltage, High (Referred to V+)	No Load I _{SOURCE} = 1mA I _{SOURCE} = 5mA	•		5 25 120	15 50 210		5 25 120	20 50 230	mV mV mV
	Output Voltage, Low (Referred to V ⁻)	No Load I _{SINK} = 1mA I _{SINK} = 5mA	•		5 25 120	25 50 210		5 25 120	30 60 240	mV mV mV

ELECTRICAL CHARACTERISTICS The \bullet denotes the specifications which apply over the full specified temperature range, otherwise specifications are at $T_A = 25^{\circ}C$. Test conditions are $V^+ = 3V$, $V^- = 0V$, $V_{CM} = 0.5V$ unless otherwise noted.

				C SUFFIX			H SUFFIX			
SYMBOL	PARAMETER	CONDITIONS		MIN	TYP	MAX	MIN	TYP	MAX	UNITS
A _{VOL}	Large-Signal Voltage Gain	$R_{LOAD} = 10k, \ 0.5V \le V_{OUT} \le 2.5V$	•	500 300	3000		500 30	3000		V/mV V/mV
I _{SC}	Output Short-Circuit Current	Source and Sink	•	25 21	35		25 18	35		mA mA
SR	Slew Rate	A _V = 1			7.2			7.2		V/µs
GBW	Gain Bandwidth Product (f _{TEST} = 20kHz)	R _{LOAD} = 50k, V _{CM} = 1.5V	•	10 9	14		10 8	14		MHz MHz
Φ_0	Phase Margin	$R_L = 10k, C_L = 5pF, A_V = 1, V_{CM} = V_S/2$			45			45		Deg
t _S	Settling Time 0.1%	$V_{STEP} = 2V, A_V = -1, R_L = 1k$			1			1		μs
Is	Supply Current (per Amplifier)	No Load	•		1.05 1.05	1.20 1.25		1.05 1.05	1.20 1.35	mA mA
	Shutdown Current (per Amplifier)	Shutdown, V _{SHDNx} ≤ 0.8V	•		0.2	1		0.2	1	μА
V_S	Supply Voltage Range	Guaranteed by the PSRR Test	•	2.7		5.5	2.7		5.5	V
	Channel Separation	f _S = 10kHz			-120			-120		dB
	Shutdown Logic	SHDNx High SHDNx Low	•	2		0.8	2		0.8	V
t_{ON}	Turn-On Time	V _{SHDNx} = 0.8V to 2V			6			6		μs
t _{OFF}	Turn-Off Time	V _{SHDNx} = 2V to 0.8V			2			2		μs
	Leakage of SHDN Pin	V _{SHDNx} = 0V	•		0.1	0.5		0.1	0.5	μА

The ullet denotes the specifications which apply over the full specified temperature range, otherwise specifications are at $T_A = 25^{\circ}C$. Test conditions are $V^+ = 5V$, $V^- = 0V$, $V_{CM} = 0.5V$ unless otherwise noted.

				(C SUFFI	X	I	H SUFFI	Χ	
SYMBOL	PARAMETER	CONDITIONS		MIN	TYP	MAX	MIN	TYP	MAX	UNITS
V _{OS}	Offset Voltage (Note 5)	LTC6087MS8, LTC6088GN LTC6087DD, LTC6088DHC LTC6087MS8, LTC6088GN LTC6087DD, LTC6088DHC	•		±330 ±330	±750 ±1100 ±900 ±1350		±330 ±330	±750 ±1100 ±1100 ±1600	μV μV μV
$\Delta V_{OS}/\Delta T$	Input Offset Voltage Drift (Note 6)	LTC6087MS8, LTC6088GN LTC6087DD, LTC6088DHC	•		±2 ±2	±5 ±5		±2 ±2	±5 ±5	μV/°C μV/°C
I _B	Input Bias Current (Notes 5, 7)		•		1	40		1	500	pA pA
I _{OS}	Input Offset Current (Notes 5, 7)		•		0.5	30		0.5	150	pA pA
e _n	Input Noise Voltage Density	f = 1kHz f = 10kHz			12 10			12 10		nV/√Hz nV/√Hz
	Input Noise Voltage	0.1Hz to 10Hz			2.5			2.5		μV _{P-P}
in	Input Noise Current Density (Note 8)	f = 1Hz			0.56			0.56		fA/√Hz
	Input Common Mode Range		•	V-		V ⁺	V-		V ⁺	V
C _{IN}	Input Capacitance Differential Mode Common Mode	f = 100kHz			2.7 4.2			2.7 4.2		pF pF

ELECTRICAL CHARACTERISTICS The \bullet denotes the specifications which apply over the full specified temperature range, otherwise specifications are at $T_A = 25^{\circ}C$. Test conditions are $V^+ = 5V$, $V^- = 0V$, $V_{CM} = 0.5V$ unless otherwise noted.

					C SUFFI)	(I			
SYMBOL	PARAMETER	CONDITIONS		MIN	TYP	MAX	MIN	TYP	MAX	UNITS
CMRR	Common Mode Rejection Ratio	$0V \le V_{CM} \le 5V$	•	70 68	84		70 66	84		dB dB
PSRR	Power Supply Rejection Ratio	$V_S = 2.7V \text{ to } 5.5V$	•	93 90	115		93 85	115		dB dB
V _{OUT}	Output Voltage, High (Referred to V+)	No Load SOURCE = 1mA SOURCE = 5mA	•		5 20 110	15 50 190		5 20 110	20 50 210	mV mV mV
	Output Voltage, Low (Referred to V ⁻)	No Load SINK = 1mA SINK = 5mA	•		5 20 110	25 50 200		5 20 110	30 60 220	mV mV mV
A _{VOL}	Large-Signal Voltage Gain	$R_{LOAD} = 10k, 0.5V \le V_{OUT} \le 4.5V$	•	1000 500	6000		1000 50	6000		V/mV V/mV
I _{SC}	Output Short-Circuit Current	Source and Sink	•	28 25	45		28 22	45		mA mA
SR	Slew Rate	A _V = 1			7.2			7.2		V/µs
GBW	Gain Bandwidth Product (f _{TEST} = 20kHz)	$R_{LOAD} = 50k$, $V_{CM} = 2.5V$	•	10 9	14		10 8	14		MHz MHz
Φ_0	Phase Margin	$R_L = 10k, C_L = 5pF, A_V = 1, V_{CM} = V_S/2$			47			47		Deg
t_S	Settling Time 0.1%	$V_{STEP} = 2V, A_V = -1, R_L = 1k$			8.0			0.8		μs
I _S	Supply Current (per Amplifier)	No Load	•		1.05 1.05	1.25 1.30		1.05 1.05	1.25 1.40	mA mA
	Shutdown Current (per Amplifier)	Shutdown, V _{SHDNx} ≤ 1.2V	•		2.3	5		2.3	5	μA
V_S	Supply Voltage Range	Guaranteed by the PSRR Test	•	2.7		5.5	2.7		5.5	V
	Channel Separation	f _S = 10kHz			-120			-120		dB
	Shutdown Logic	SHDNx High SHDNx Low	•	3.5		1.2	3.5		1.2	V
t _{ON}	Turn-On Time	V _{SHDNx} = 1.2V to 3.5V			6			6		μs
t _{OFF}	Turn-Off Time	V _{SHDNx} = 3.5V to 1.2V			2			2		μs
	Leakage of SHDN Pin	$V_{\overline{SHDNx}} = 0V$	•		0.4	1		0.4	1	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: A heat sink may be required to keep the junction temperature below the absolute maximum. This depends on the power supply voltage and the total output current.

Note 3: The LTC6087C/LTC6088C are guaranteed functional over the operating temperature range of -40°C to 85°C. The LTC6087H/LTC6088H are guaranteed functional over the operating temperature range of -40°C to 125°C.

Note 4: The LTC6087C/LTC6088C are guaranteed to meet specified performance from 0°C to 70°C. The LTC6087C/LTC6088C are designed, characterized and expected to meet specified performance from –40°C to 125°C but are not tested or QA sampled at these temperatures.

The LTC6087H/LTC6088H are guaranteed to meet specified performance from -40°C to 125 $^{\circ}\text{C}$.

Note 5: ESD (electrostatic discharge) sensitive device. ESD protection devices are used extensively internal to the LTC6087/LTC6088; however, high electrostatic discharge can damage or degrade the device. Use proper ESD handling precautions.

Note 6: This parameter is not 100% tested.

Note 7: This specification is limited by high speed automated test capability. See Typical Performance Characteristic curves for actual performance.

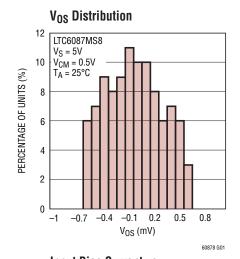
Note 8: Current noise is calculated from:

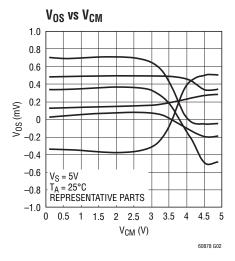
 $i_n = \sqrt{2qI_B}$

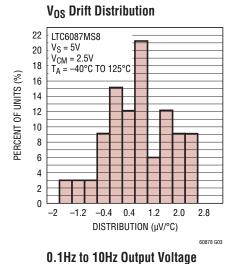
where $q = 1.6 \cdot 10^{-19}$ coulombs.

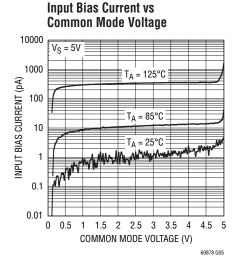
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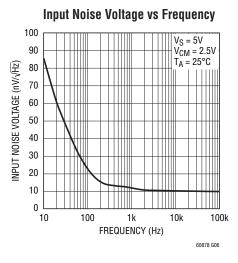
TYPICAL PERFORMANCE CHARACTERISTICS

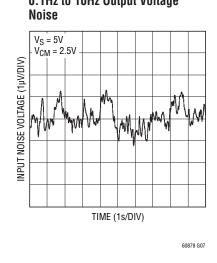


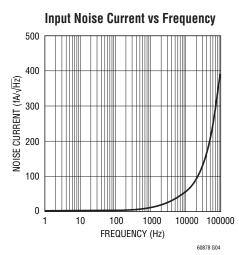


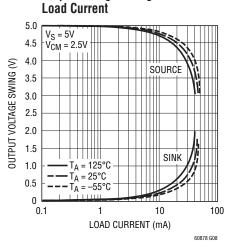




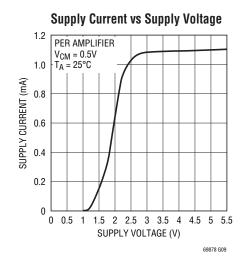




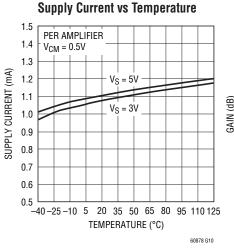


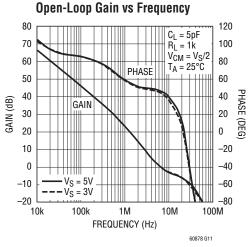


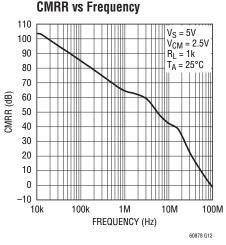
Output Voltage Swing vs

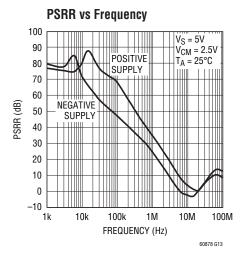


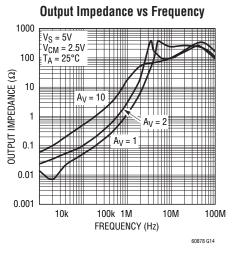
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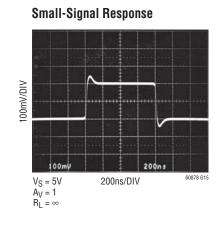


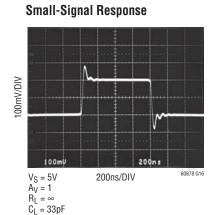


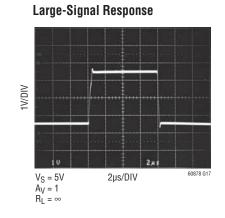


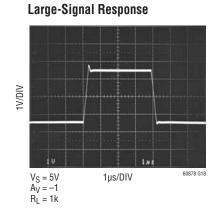




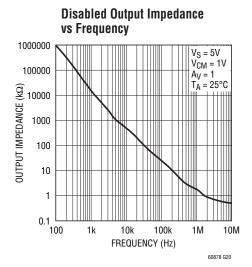


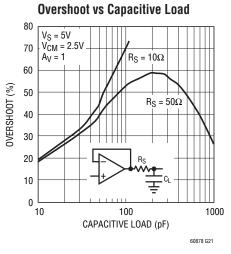


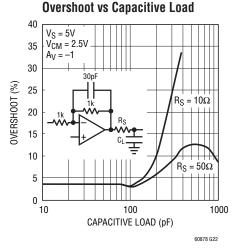


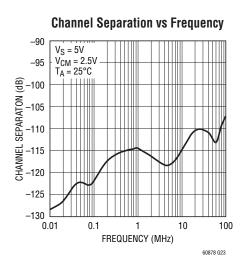


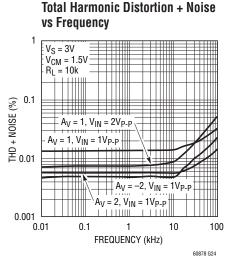
TYPICAL PERFORMANCE CHARACTERISTICS

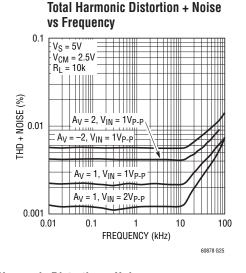


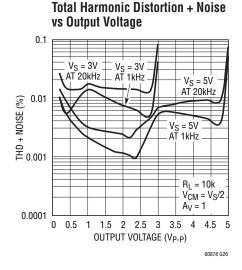


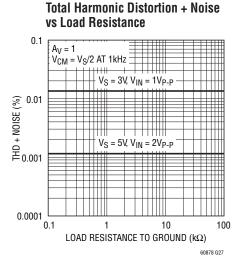












PIN FUNCTIONS

OUT: Amplifier Output.

-IN: Inverting Input.

+IN: Noninverting Input.

V+: Positive Supply.

V-: Negative Supply.

SHDNA: Shutdown Pin of Amplifier A, active low and only available with the LTC 6087DD. An internal current source pulls the pin to V⁺ when floating.

SHDNB: Shutdown Pin of Amplifier B, active low and only available with the LTC 6087DD. An internal current source pulls the pin to V⁺ when floating.

NC: Not internally connected Exposed Pad: Connected to V⁻.

APPLICATIONS INFORMATION

Rail-to-Rail Input

The input stage of LTC6087/LTC6088 combines both PMOS and NMOS differential pairs, extending its input common mode voltage to both positive and negative supply voltages. At high input common mode range, the NMOS pair is on. At low common mode range, the PMOS pair is on. The transition happens when the common voltage is between 1.3V and 0.9V below the positive supply.

Achieving Low Input Bias Current

The DD and DHC packages are leadless and make contact to the PCB beneath the package. Solder flux used during the attachment of the part to the PCB can create leakage current paths and can degrade the input bias current performance of the part. All inputs are susceptible because the backside paddle is connected to V⁻ internally. As the input voltage or V⁻ changes, a leakage path can be formed and alter the observed input bias current. For lowest bias current use the LTC6087/LTC6088 in the leaded MSOP/

GN package. With fine PCB design rules, you can also provide a guard ring around the inputs.

For example, in high source impedance applications such as pH probes, photo diodes, strain gauges, et cetera, the low input bias current of these parts requires a clean board layout to minimize additional leakage current into a high impedance signal node. A mere $100G\Omega$ of PC board resistance between a 5V supply trace and input trace near ground potential adds 50pA of leakage current. This leakage is far greater than the bias current of the operational amplifier. A guard ring around the high impedance input traces driven by a low impedance source equal to the input voltage prevents such leakage problems. The guard ring should extend as far as necessary to shield the high impedance signal from any and all leakage paths. Figure 1 shows the use of a guard ring in a unity-gain configuration. In this case the guard ring is connected to the output and is shielding the high impedance noninverting input from V⁻. Figure 2 shows the inverting gain configuration.

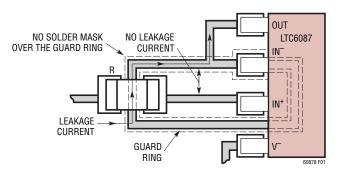


Figure 1. Sample Layout. Unity-Gain Configuration. Using Guard Ring to Shield High Impedance Input from Board Leakage

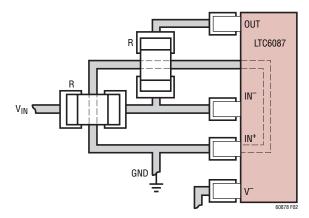


Figure 2. Sample Layout. Inverting Gain Configuration. Using Guard Ring to Shield High Impedance Input from Board Leakage

APPLICATIONS INFORMATION

Rail-to-Rail Output

The output stage of the LTC6087/LTC6088 swings within 30mV of the supply rails when driving high impedance loads, in other words when no DC load current is present. See the Typical Performance Characteristics for curves of output swing versus load current. The class AB design of the output stage enables the op amp to supply load currents which are much greater than the quiescent supply current. For example, the room temperature short circuit current is typically 45mA.

Capacitive Load

LTC6087/LTC6088 can drive capacitive load up to 100pF in unity gain. The capacitive load driving capability increases as the amplifier is used in higher gain configurations. A small series resistance between the output and the load further increases the amount of capacitance the amplifier can drive.

SHDN Pins

Pins 5 and 6 are used for power shutdown when the LTC6087 is in the DD package. If they are floating, internal current sources pull Pins 5 and 6 to V⁺ and the amplifiers operate normally. In shutdown the amplifier output is high impedance and each amplifier draws less than 5μ A current. This feature allows the part to be used in muxed output applications as shown in Figure 3.

ESD

The LTC6087/LTC6088 has reverse-biased ESD protection diodes on all inputs and outputs as shown in the Simplified Schematic. If these pins are forced beyond either supply, unlimited current will flow through these diodes. If the current is transient and limited to one hundred milliamps or less, no damage to the device will occur.

The amplifier input bias current is the leakage current of these ESD diodes. This leakage is a function of the temperature and common mode voltage of the amplifier, as shown in the Typical Performance Characteristics.

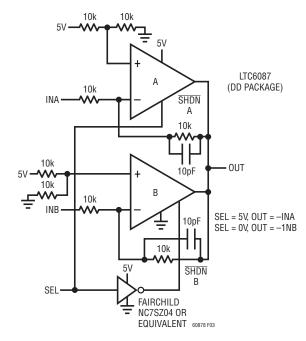


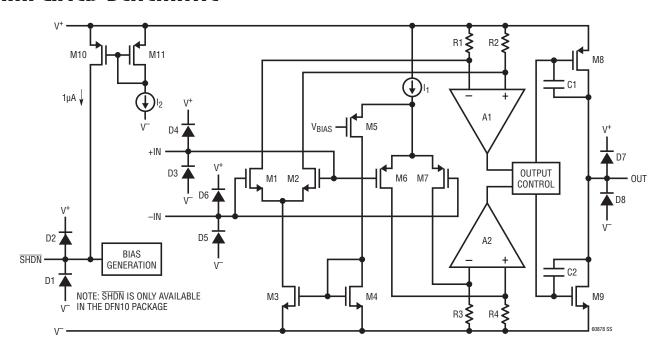
Figure 3. Inverting Amplifier with Muxed Output

Noise

In the frequency region above 1kHz, the LTC6087/LTC6088 shows good noise voltage performance. In this region, noise can be dominated by the total source resistance of the particular application. Specifically, these amplifiers exhibit the noise of a 10k resistor, meaning it is desirable to keep the source and feedback resistance at or below this value, i.e., $R_S + R_G ||R_{FB} \leq 10k$. Above this total source impedance, the noise voltage is dominated by the resistor.

At low frequency, noise current can be estimated from the expression in = $\sqrt{2ql_B}$, where q = 1.6 • 10^{-19} coulombs. Equating $\sqrt{4kTR\Delta f}$ and $R\sqrt{2ql_B\Delta f}$ shows that for source resistor below $50G\Omega$ the amplifier noise is dominated by the source resistance. Noise current rises with frequency. See the curve Noise Current vs Frequency in the Typical Performance Characteristics section.

SIMPLIFIED SCHEMATIC

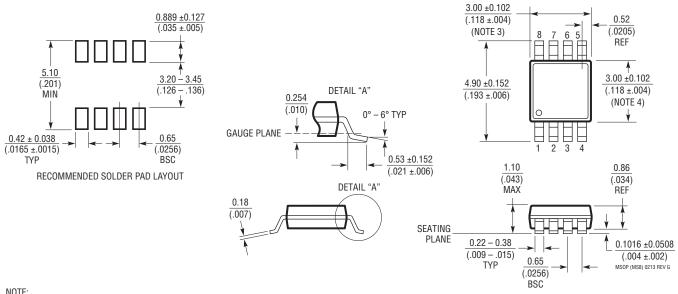


PACKAGE DESCRIPTION

Please refer to http://www.linear.com/product/LTC6087#packaging for the most recent package drawings.

MS8 Package 8-Lead Plastic MSOP

(Reference LTC DWG # 05-08-1660 Rev G)



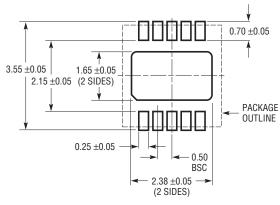
- 1. DIMENSIONS IN MILLIMETER/(INCH)
- 2. DRAWING NOT TO SCALE
- 3. DIMENSION DOES NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH, PROTRUSIONS OR GATE BURRS SHALL NOT EXCEED 0.152mm (.006") PER SIDE
- 4. DIMENSION DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSIONS. INTERLEAD FLASH OR PROTRUSIONS SHALL NOT EXCEED 0.152mm (.006") PER SIDE
- 5. LEAD COPLANARITY (BOTTOM OF LEADS AFTER FORMING) SHALL BE 0.102mm (.004") MAX

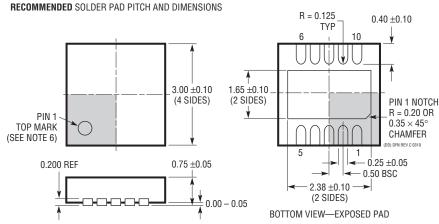
PACKAGE DESCRIPTION

Please refer to http://www.linear.com/product/LTC6087#packaging for the most recent package drawings.

DD Package 10-Lead Plastic DFN (3mm × 3mm)

(Reference LTC DWG # 05-08-1699 Rev C)





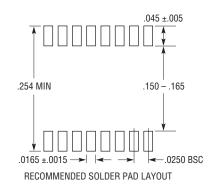
- NOTE:
- 1. DRAWING TO BE MADE A JEDEC PACKAGE OUTLINE M0-229 VARIATION OF (WEED-2). CHECK THE LTC WEBSITE DATA SHEET FOR CURRENT STATUS OF VARIATION ASSIGNMENT
- 2. DRAWING NOT TO SCALE
- 3. ALL DIMENSIONS ARE IN MILLIMETERS
- DIMENSIONS OF EXPOSED PAD ON BOTTOM OF PACKAGE DO NOT INCLUDE MOLD FLASH, 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

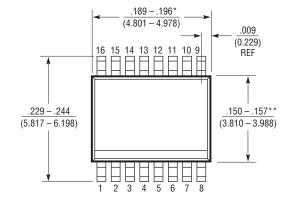
PACKAGE DESCRIPTION

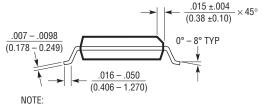
Please refer to http://www.linear.com/product/LTC6087#packaging for the most recent package drawings.

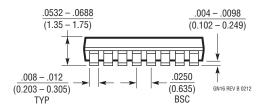
GN Package 16-Lead Plastic SSOP (Narrow .150 Inch)

(Reference LTC DWG # 05-08-1641 Rev B)









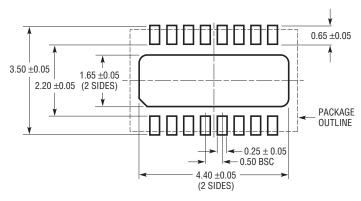
- 1. CONTROLLING DIMENSION: INCHES
- 2. DIMENSIONS ARE IN $\frac{\text{INCHES}}{\text{(MILLIMETERS)}}$
- 3. DRAWING NOT TO SCALE
- 4. PIN 1 CAN BE BEVEL EDGE OR A DIMPLE
- *DIMENSION DOES NOT INCLUDE MOLD FLASH. MOLD FLASH SHALL NOT EXCEED 0.006" (0.152mm) PER SIDE
- **DIMENSION DOES NOT INCLUDE INTERLEAD FLASH, INTERLEAD FLASH SHALL NOT EXCEED 0.010" (0.254mm) PER SIDE

PACKAGE DESCRIPTION

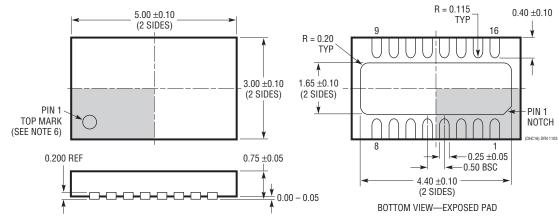
Please refer to http://www.linear.com/product/LTC6087#packaging for the most recent package drawings.

$\begin{array}{c} \textbf{DHC Package} \\ \textbf{16-Lead Plastic DFN (5mm} \times \textbf{3mm)} \end{array}$

(Reference LTC DWG # 05-08-1706 Rev Ø)



RECOMMENDED SOLDER PAD PITCH AND DIMENSIONS



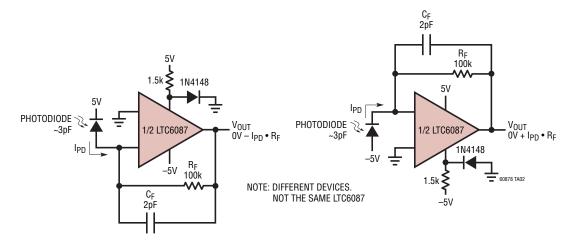
- NOTE
- 1. DRAWING PROPOSED TO BE MADE VARIATION OF VERSION (WJED-1) IN JEDEC PACKAGE OUTLINE MO-229
- 2. DRAWING NOT TO SCALE
- 3. ALL DIMENSIONS ARE IN MILLIMETERS
- DIMENSIONS OF EXPOSED PAD ON BOTTOM OF PACKAGE DO NOT INCLUDE MOLD FLASH. MOLD FLASH, IF PRESENT, SHALL NOT EXCEED 0.15mm ON ANY SIDE
- 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

REVISION HISTORY (Revision history begins at Rev C)

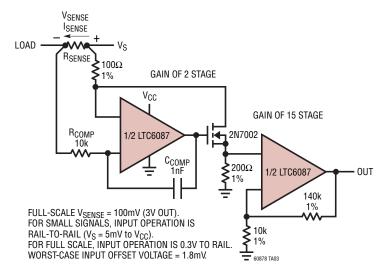
REV	DATE	DESCRIPTION	PAGE NUMBER
С	7/12	Corrected Supply Current value.	1
		Provided V _{CM} condition for GBW specification.	4, 5
D	6/17	Provided V _{CM} condition for Phase Margin specification.	4, 5

TYPICAL APPLICATIONS

Negative-Going and Positive-Going Photodiode TIAs on ±5V Supplies



Almost Rail-to-Rail (0.3V to V_{CC}) Gain-of-30 Current Sense Amplifier



RELATED PARTS

PART NUMBER	DESCRIPTION	COMMENTS
LTC2051/LTC2052	Dual/Quad Zero-Drift Op Amps	3μV V _{OS(MAX)} , 30nV/°C V _{OS} Drift (MAX)
LTC6078/LTC6079	Dual/Quad Micropower Precision Rail-to-Rail Op Amps	25μV V _{OS(MAX)} , 0.7μV/°C V _{OS} Drift (MAX), 1pA I _{BIAS(MAX)}
LTC6240	Single Low Noise Rail-to-Rail Output Op Amp	7nV/√Hz Noise, 1pA I _{BIAS(MAX)} , 10V/µs Slew Rate
LTC6241/LTC6242	Dual/Quad Low Noise Rail-to-Rail Output Op Amps	7nV/√Hz Noise, 0.2pA I _{BIAS} , 18MHz Gain Bandwidth
LTC6244	Dual 50MHz Rail-to-Rail Op Amps	100μV V _{OS(MAX)} , 1pA I _{BIAS} , 40V/μs Slew Rate

LINEAR

