

FEATURES

- Tiny: 8 DACs in the Board Space of an SO-8
- Micropower: 56µA per DAC Plus 1µA Sleep Mode for Extended Battery Life
- Pin Compatible 8-Bit LTC1665 and 10-Bit LTC1660
- Wide 2.7V to 5.5V Supply Range
- Rail-to-Rail Voltage Outputs Drive 1000pF
- Reference Range Includes Supply for Ratiometric OV-to-V_{CC} Output
- Reference Input Impedance is Constant— Eliminates External Buffer

APPLICATIONS

- Mobile Communications
- Remote Industrial Devices
- Automatic Calibration for Manufacturing
- Portable Battery-Powered Instruments
- Trim/Adjust Applications

LTC1665/LTC1660

Micropower Octal 8-Bit and 10-Bit DACs

DESCRIPTION

The 8-bit LTC®1665 and 10-bit LTC1660 integrate eight accurate, serially addressable digital-to-analog converters (DACs) in tiny 16-pin narrow SSOP packages. Each buffered DAC draws just 56 μ A total supply current, yet is capable of supplying DC output currents in excess of 5mA and reliably driving capacitive loads to 1000pF. Sleep mode further reduces total supply current to 1 μ A.

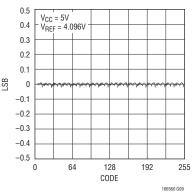
Linear Technology's proprietary, inherently monotonic voltage interpolation architecture provides excellent linearity while allowing for an exceptionally small external form factor.

Ultralow supply current, power-saving Sleep mode and extremely compact size make the LTC1665 and LTC1660 ideal for battery-powered applications, while their ease of use, high performance and wide supply range make them excellent choices as general purpose converters.

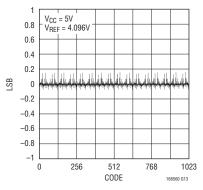
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BLOCK DIAGRAM GND 1 16 V_{CC} DAC A DAC H V_{OUT A} 2 15 V_{OUT H} DAC B V_{OUT B} 3 DAC G 14 V_{OUT G} DAC C DAC F VOUT C 4 13 VOUT F DAC D DAC E V_{OUT D} 5 12 VOUT E REF 6 11 CLR CONTROL ADDRESS LOGIC DECODER CS/LD 7 10 D_{OUT} յլ SCK 8 SHIFT REGISTER 9 D_{IN}

LTC1665 Differential Nonlinearity (DNL)

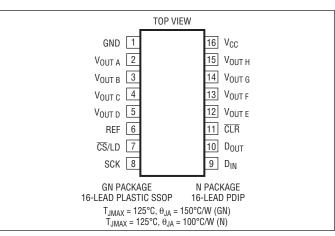


LTC1660 Differential Nonlinearity (DNL)



ABSOLUTE MAXIMUM RATINGS

PIN CONFIGURATION



ORDER INFORMATION

LEAD FREE FINISH	TAPE AND REEL	PART MARKING*	PACKAGE DESCRIPTION	TEMPERATURE RANGE
LTC1665CGN#PBF	LTC1665CGN#PBF	1665	16-Lead Plastic SSOP	0°C to 70°C
LTC1665IGN#PBF	LTC1665IGN#PBF	16651	16-Lead Plastic SSOP	-40°C to 85°C
LTC1660CGN#PBF	LTC1660CGN#PBF	1660	16-Lead Plastic SSOP	0°C to 70°C
LTC1660IGN#PBF	LTC1660IGN#PBF	16601	16-Lead Plastic SSOP	-40°C to 85°C
LTC1665CN#PBF	LTC1665CN#PBF	LTC1665CN	16-Lead Plastic PDIP	0°C to 70°C
LTC1665IN#PBF	LTC1665IN#PBF	LTC1665IN	16-Lead Plastic PDIP	-40°C to 85°C
LTC1660CN#PBF	LTC1660CN#PBF	LTC1660CN	16-Lead Plastic PDIP	0°C to 70°C
LTC1660IN#PBF	LTC1660IN#PBF	LTC1660IN	16-Lead Plastic PDIP	-40°C to 85°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/





$\label{eq:constraint} \begin{array}{l} \textbf{ELECTRICAL CHARACTERISTICS} \\ \text{temperature range, otherwise specifications are at } T_A = 25^\circ\text{C}. \ V_{CC} = 2.7V \ \text{to } 5.5V, \ V_{REF} \leq V_{CC}, \ V_{OUT} \ \text{unloaded, unless otherwise noted.} \end{array}$

					LTC166	ō		LTC166	0	
SYMBOL	PARAMETER	CONDITIONS		MIN	ТҮР	MAX	MIN	TYP	MAX	UNITS
Accuracy	, ,									
	Resolution		•	8			10			Bits
	Monotonicity	$V_{\text{REF}} \le V_{\text{CC}} - 0.1V \text{ (Note 2)}$	•	8			10			Bits
DNL	Differential Nonlinearity	$V_{\text{REF}} \le V_{\text{CC}} - 0.1V \text{ (Note 2)}$	•		±0.1	±0.5		±0.2	±0.75	LSB
INL	Integral Nonlinearity	$V_{\text{REF}} \le V_{\text{CC}} - 0.1V \text{ (Note 2)}$	•		±0.2	±1.0		±0.6	±2.5	LSB
V _{OS}	Offset Error	(Note 7)	•		±10	±30		±10	±30	mV
	V _{OS} Temperature Coefficient		•		±15			±15		µV/°C
FSE	Full-Scale Error	V _{CC} = 5V, V _{REF} = 4.096V	•		±1	±4		±3	±15	LSB
	Full-Scale Error Temperature Coefficient		•		±30			±30		µV/°C
PSR	Power Supply Rejection	V _{REF} = 2.5V			0.045			0.18		LSB/V

The \bullet denotes specifications which apply over the full operating temperature range, otherwise specifications are at T_A = 25°C. V_{CC} = 2.7V to 5.5V, V_{REF} \leq V_{CC}, V_{OUT} unloaded, unless otherwise noted.

SYMBOL	PARAMETER	RAMETER CONDITIONS		MIN	ТҮР	MAX	UNITS
Reference	e Input	·					
	Input Voltage Range		•	0		V _{CC}	V
	Resistance	Not in Sleep Mode	•	35	65		kΩ
	Capacitance	(Note 6)			15		pF
I _{REF}	Reference Current	Sleep Mode	•		0.001	1	μA
Power Su	ipply		·				
V _{CC}	Positive Supply Voltage	For Specified Performance	•	2.7		5.5	V
I _{CC}	Supply Current	V _{CC} = 5V (Note 3) V _{CC} = 3V (Note 3) Sleep Mode (Note 3)	•		450 340 1	730 530 3	μΑ μΑ μΑ
DC Perfor	rmance						
	Short-Circuit Current Low	V_{OUT} = 0V, V_{CC} = 5.5V, V_{REF} = 5.1V, Code = Full Scale	•	10	30	100	mA
	Short-Circuit Current High	$V_{OUT} = V_{CC} = 5.5V, V_{REF} = 5.1V, Code = 0$	•	10	27	120	mA
AC Perfor	rmance						
	Voltage Output Slew Rate	Rising (Notes 4, 5) Falling (Notes 4, 5)			0.60 0.25		V/µs V/µs
	Voltage Output Settling Time	To ±0.5LSB (Notes 4, 5)			30		μs
	Capacitive Load Driving				1000		pF
Digital I/C	D	·	•				
V _{IH}	Digital Input High Voltage	V _{CC} = 2.7V to 5.5V V _{CC} = 2.7V to 3.6V	•	2.4 2.0			V V
V _{IL}	Digital Input Low Voltage	V _{CC} = 4.5V to 5.5V V _{CC} = 2.7V to 5.5V	•			0.8 0.6	V V
V _{OH}	Digital Output High Voltage	$I_{OUT} = -1 \text{ mA}, D_{OUT} \text{ Only}$	•	V _{CC} – 1			V
V _{OL}	Digital Output Low Voltage	I _{OUT} = 1mA, D _{OUT} Only	•			0.4	V
I _{LK}	Digital Input Leakage	V _{IN} = GND to V _{CC}	•			±10	μA
CIN	Digital Input Capacitance	(Note 6)	•			10	pF



TIMING CHARACTERISTICS The \bullet denotes specifications which apply over the full operating temperature range, otherwise specifications are at T_A = 25°C. (See Figure 1)

SYMBOL	PARAMETER	CONDITIONS		MIN	ТҮР	MAX	UNITS
V _{CC} = 4.5	V to 5.5V						I
t ₁	D _{IN} Valid to SCK Setup		•	40			ns
t ₂	D _{IN} Valid to SCK Hold		•	0			ns
t ₃	SCK High Time	(Note 6)	•	30			ns
t ₄	SCK Low Time	(Note 6)	•	30			ns
t ₅	CS/LD Pulse Width	(Note 6)	•	80			ns
t ₆	LSB SCK High to CS/LD High	(Note 6)	•	30			ns
t ₇	CS/LD Low to SCK High	(Note 6)	•	80			ns
t ₈	D _{OUT} Propagation Delay	C _{LOAD} = 15pF (Note 6)	•	5		80	ns
tg	SCK Low to CS/LD Low	(Note 6)	•	20			ns
t ₁₀	CLR Pulse Width	(Note 6)	•	100			ns
t ₁₁	CS/LD High to SCK Positive Edge	(Note 6)	•	30			ns
	SCK Frequency	Continuous Square Wave (Note 6) Continuous 23% Duty Cycle Pulse (Note 6) Gated Square Wave (Note 6)	•			5.00 7.69 16.7	MHz MHz MHz
V _{CC} = 2.7	V to 5.5V						I
t ₁	D _{IN} Valid to SCK Setup	(Note 6)	•	60			ns
t ₂	D _{IN} Valid to SCK Hold	(Note 6)	•	0			ns
t ₃	SCK High Time	(Note 6)	•	50			ns
t ₄	SCK Low Time	(Note 6)	•	50			ns
t ₅	CS/LD Pulse Width	(Note 6)	•	100			ns
t ₆	LSB SCK High to CS/LD High	(Note 6)	•	50			ns
t ₇	CS/LD Low to SCK High	(Note 6)	•	100			ns
t ₈	D _{OUT} Propagation Delay	C _{LOAD} = 15pF (Note 6)	•	5		150	ns
tg	SCK Low to CS/LD Low	(Note 6)	•	30			ns
t ₁₀	CLR Pulse Width	(Note 6)	•	120			ns
t ₁₁	CS/LD High to SCK Positive Edge	(Note 6)	•	30			ns
	SCK Frequency	Continuous Square Wave (Note 6) Continuous 28% Duty Cycle Pulse Gated Square Wave	•			3.85 5.55 10	MHz MHz MHz

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: Nonlinearity and monotonicity are defined from code 4 to code 255 for the LTC1665 and from code 20 to code 1023 for the LTC1660. See Applications Information.

Note 3: Digital inputs at 0V or V_{CC} .

Note 4: Load is $10k\Omega$ in parallel with 100pF.

Note 5: V_{CC} = V_{REF} = 5V. DAC switched between 0.1V_{FS} and 0.9V_{FS}, i.e., codes 26 and 230 for the LTC1665 or codes 102 and 922 for the LTC1660.

Note 6: Guaranteed by design and not production tested.

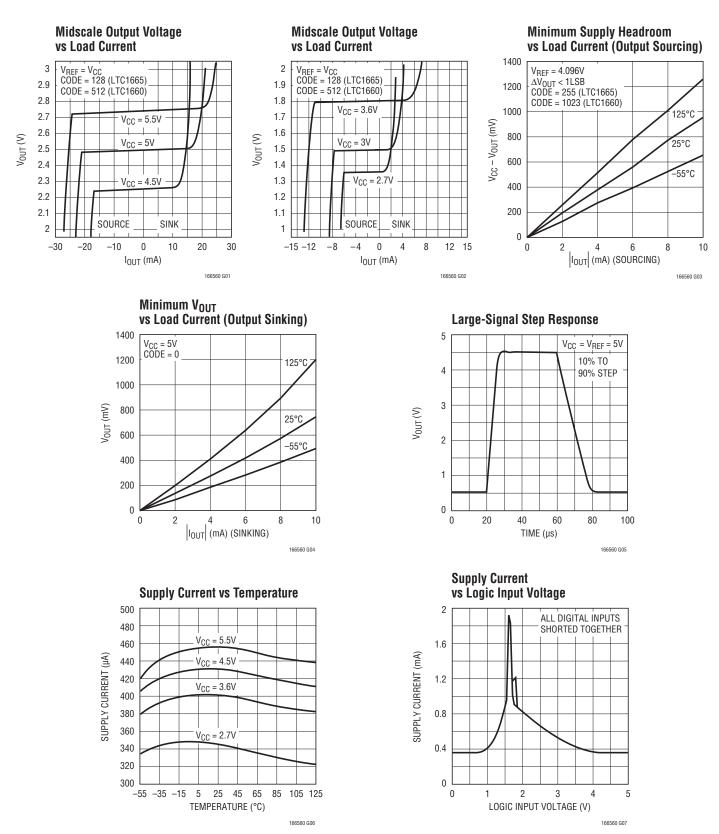
Note 7: Measured at code 4 for the LTC1665 and code 20 for the LTC1660.



166560fa

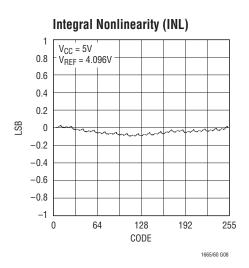
4 Downloaded from Arrow.com.

TYPICAL PERFORMANCE CHARACTERISTICS (LTC1665/LTC1660)

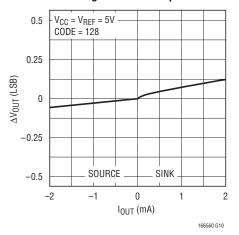




TYPICAL PERFORMANCE CHARACTERISTICS (LTC1665)

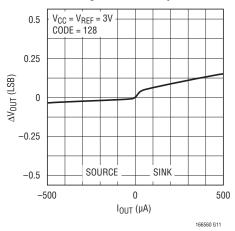


Load Regulation vs Output Current

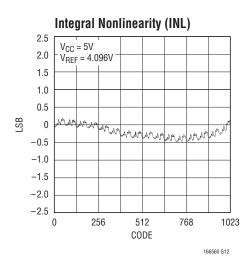


Differential Nonlinearity (DNL) 0.5 $V_{CC} = 5V$ 0.4 $V_{REF} = 4.096V$ 0.3 0.2 0.1 SB 0 -0.1 -0.2 -0.3 -0.4 -0.5 64 128 192 255 0 CODE 166560 G09

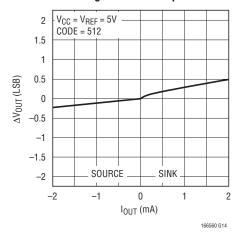
Load Regulation vs Output Current



TYPICAL PERFORMANCE CHARACTERISTICS (LTC1660)

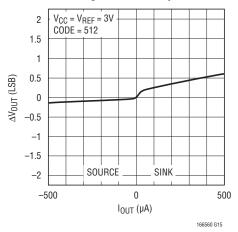


Load Regulation vs Output Current



Differential Nonlinearity (DNL) 1 V_{CC} = 5V V_{REF} = 4.096V 0.8 0.6 0.4 0.2 SB 0 -0.2 -0.4 -0.6 -0.8 -1 0 256 512 768 1023 CODE 166560 G13

Load Regulation vs Output Current





PIN FUNCTIONS (LTC1665/LTC1660)

GND (Pin 1): System Ground.

 $V_{OUT\ A}$ to $V_{OUT\ H}$ (Pins 2-5 and 12-15): DAC Analog Voltage Outputs. The output range is

0 to
$$\left(\frac{255}{256}\right)$$
 V_{REF} for the LTC1665
0 to $\left(\frac{1023}{1024}\right)$ V_{REF} for the LTC1660

REF (Pin 6): Reference Voltage Input. $0V \le V_{REF} \le V_{CC}$.

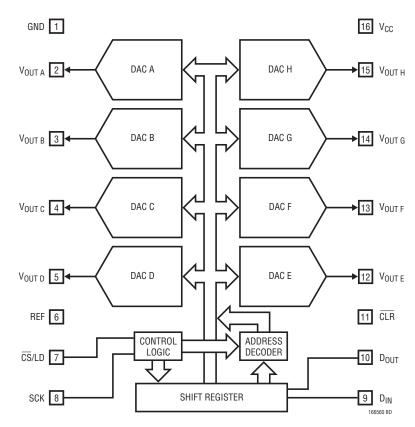
CS/LD (Pin 7): Serial Interface Chip Select/Load Input. When \overline{CS}/LD is low, SCK is enabled for shifting data on D_{IN} into the register. When \overline{CS}/LD is pulled high, SCK is disabled and data is loaded from the shift register into the specified DAC register(s), updating the analog output(s). CMOS and TTL compatible. **SCK (Pin 8):** Serial Interface Clock Input. CMOS and TTL compatible.

 $\mathbf{D_{IN}}$ (Pin 9): Serial Interface Data Input. Data on the $\mathbf{D_{IN}}$ pin is shifted into the 16-bit register on the rising edge of SCK. CMOS and TTL compatible.

 D_{OUT} (Pin 10): Serial Interface Data Output. Data appears on D_{OUT} 16 positive SCK edges after being applied to D_{IN} . May be tied to D_{IN} of another LTC1665/LTC1660 for daisy-chain operation. CMOS and TTL compatible.

CLR (Pin 11): Asynchronous Clear Input. All internal shift and DAC registers are cleared to zero at the falling edge of the CLR signal, forcing the analog outputs to zero scale. CMOS and TTL compatible.

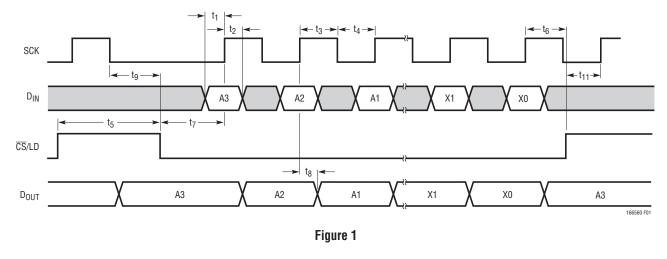
V_{CC} (Pin 16): Supply Voltage Input. $2.7V \le V_{CC} \le 5.5V$.



BLOCK DIAGRAM



TIMING DIAGRAM



OPERATION

Transfer Function

The transfer function is:

$$V_{OUT(IDEAL)} = \left(\frac{k}{256}\right) V_{REF}$$
 for the LTC1665

$$V_{OUT(IDEAL)} = \left(\frac{k}{1024}\right) V_{REF}$$
 for the LTC1660

where k is the decimal equivalent of the binary DAC input code and V_{REF} is the voltage at REF (Pin 6).

Power-On Reset

The LTC1665 clears the outputs to zero scale when power is first applied, making system initialization consistent and repeatable.

Power Supply Sequencing

The voltage at REF (Pin 6) should be kept within the range $-0.2V \le V_{REF} \le V_{CC} + 0.2V$ (see Absolute Maximum Ratings). Particular care should be taken to observe these limits during power supply turn-on and turn-off sequences, when the voltage at V_{CC} (Pin 16) is in transition.

Serial Interface

Referring to Figure 2a (2b): With \overline{CS}/LD held low, data on the D_{IN} input is shifted into the 16-bit shift register on the positive edge of SCK. The 4-bit DAC address, A3-A0, is loaded first (see Table 2), then the 8-bit (10-bit) input code, D7-D0 (D9-D0), ordered MSB-to-LSB in each case. Four (two) don't-care bits, X3-X0 (X1-X0), are loaded last. When the full 16-bit input word has been shifted in, \overline{CS}/LD is pulled high, loading the DAC register with the word and causing the addressed DAC output(s) to update. The clock is disabled internally when \overline{CS}/LD is high. Note: SCK must be low before \overline{CS}/LD is pulled low.

The buffered serial output of the shift register is available on the D_{OUT} pin, which swings from GND to V_{CC} . Data appears on D_{OUT} 16 positive SCK edges after being applied to D_{IN} .

Multiple LTC1665/LTC1660's can be controlled from a single 3-wire serial port (i.e., SCK, D_{IN} and \overline{CS}/LD) by using the included "daisy-chain" facility. A series of *m* chips is configured by connecting each D_{OUT} (except the last) to D_{IN} of the next chip, forming a single 16*m*-bit shift register. The SCK and \overline{CS}/LD signals are common to all chips in the chain. In use, \overline{CS}/LD is held low while *m* 16-bit words are clocked to D_{IN} of the first chip; \overline{CS}/LD is then pulled high, updating all of them simultaneously.



OPERATION

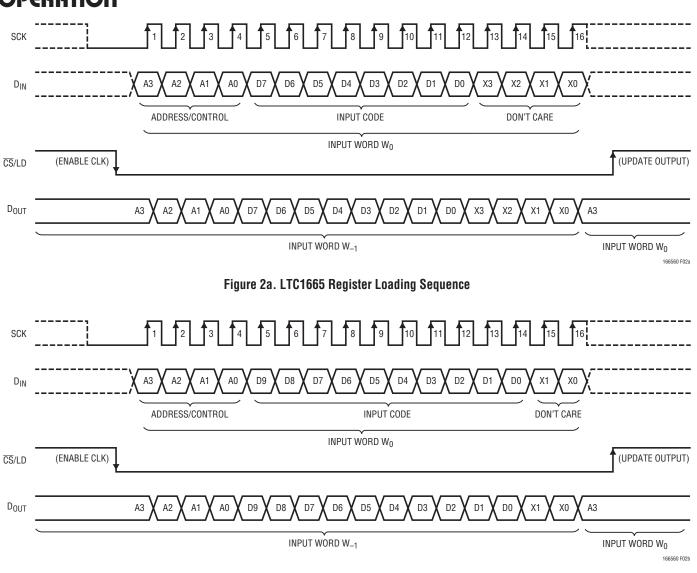




Table 1a. LTC1665 Input Word A3 A2 A1 A0 D7 D6 D5 D4 D3 D2 D1 D0 X3 X2 X1 X0 ADDRESS/CONTROL INPUT CODE DON'T CARE Table 1b. LTC1660 Input Word A3 A2 A1 A0 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0 X1 X0 ADDRESS/CONTROL INPUT CODE D0 X1 X0 X0 X1 X0

Sleep Mode

DAC address 1110_b is reserved for the special Sleep instruction (see Table 2). In this mode, the digital interface stays active while the analog circuits are disabled; static power consumption is thus virtually eliminated. The reference input and analog outputs are set in a high impedance state and all DAC settings are retained in memory so that when Sleep mode is exited, the outputs of DACs not updated by the Wake command are restored to their last active state.



OPERATION

ADDRESS/CONTROL					
A3	A2	A1	AO	DAC STATUS	SLEEP STATUS
0	0	0	0	No Change	Wake
0	0	0	1	Load DAC A	Wake
0	0	1	0	Load DAC B	Wake
0	0	1	1	Load DAC C	Wake
0	1	0	0	Load DAC D	Wake
0	1	0	1	Load DAC E	Wake
0	1	1	0	Load DAC F	Wake
0	1	1	1	Load DAC G	Wake
1	0	0	0	Load DAC H	Wake
1	0	0	1	No Change	Wake
1	0	1	0	No Change	Wake
1	0	1	1	No Change	Wake
1	1	0	0	No Change	Wake
1	1	0	1	No Change	Wake
1	1	1	0	No Change	Sleep
1	1	1	1	Load ALL DACs with Same 8/10-Bit Code	Wake

Table 2. DAC Address/Control Functions

Sleep mode is initiated by performing a load sequence to address 1110_b (the DAC input word D7-D0 [D9-D0] is ignored). Once in Sleep mode, a load sequence to any other address (including "No Change" addresses 0000_b and $1001-1101_b$) causes the LTC1665/LTC1660 to Wake. It is possible to keep one or more chips of a daisy chain in continuous Sleep mode by giving the Sleep instruction to these chips each time the active chips in the chain are updated.

Voltage Outputs

Each of the eight rail-to-rail output amplifiers contained in these parts can source or sink up to 5mA. The outputs swing to within a few millivolts of either supply rail when unloaded and have an equivalent output resistance of 85Ω when driving a load to the rails. The output amplifiers are stable driving capacitive loads up to 1000pF.

A small resistor placed in series with the output can be used to achieve stability for any load capacitance. A 1 μ F load can be successfully driven by inserting a 20 Ω resistor; a 2.2 μ F load needs only a 10 Ω resistor. In either case, larger values of resistance, capacitance or both may be safely substituted for the values given.

Rail-to-Rail Output Considerations

In any rail-to-rail output voltage DAC, the output is limited to voltages within the supply range.

If the DAC offset is negative, the output for the lowest codes limits at OV as shown in Figure 3b.

Similarly, limiting can occur near full scale when the REF pin is tied to V_{CC}. If V_{REF} = V_{CC} and the DAC full-scale error (FSE) is positive, the output for the highest codes limits at V_{CC} as shown in Figure 3c. No full-scale limiting can occur if V_{REF} is less than V_{CC} – FSE.

Offset and linearity are defined and tested over the region of the DAC transfer function where no output limiting can occur.



OPERATION

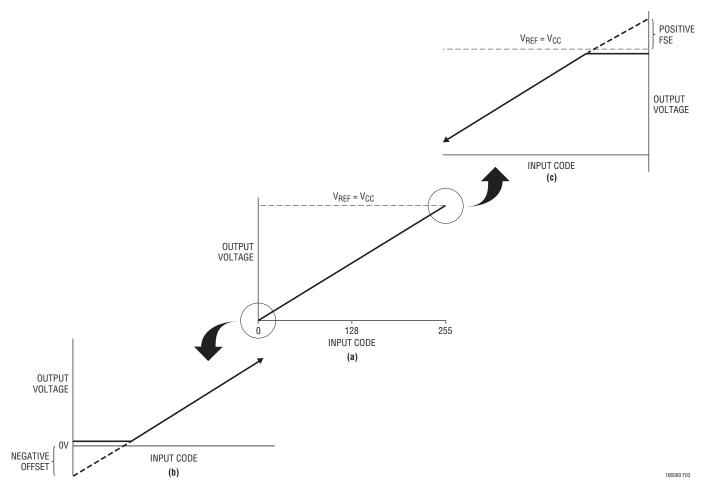
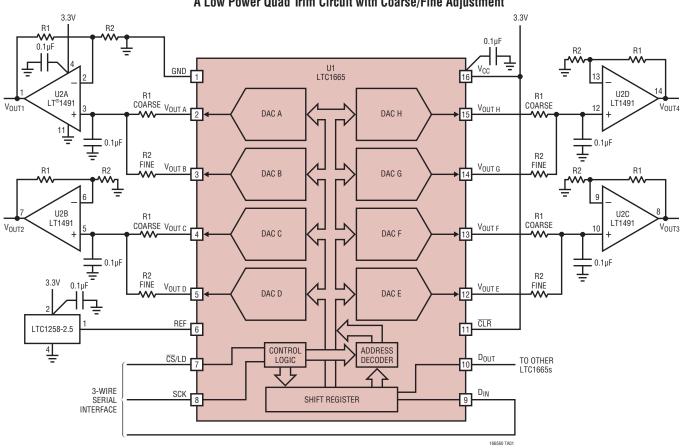


Figure 3. Effects of Rail-to-Rail Operation On a DAC Transfer Curve. (a) Overall Transfer Function (b) Effect of Negative Offset for Codes Near Zero Scale (c) Effect of Positive Full-Scale Error for Input Codes Near Full Scale When $V_{REF} = V_{CC}$



TYPICAL APPLICATIONS

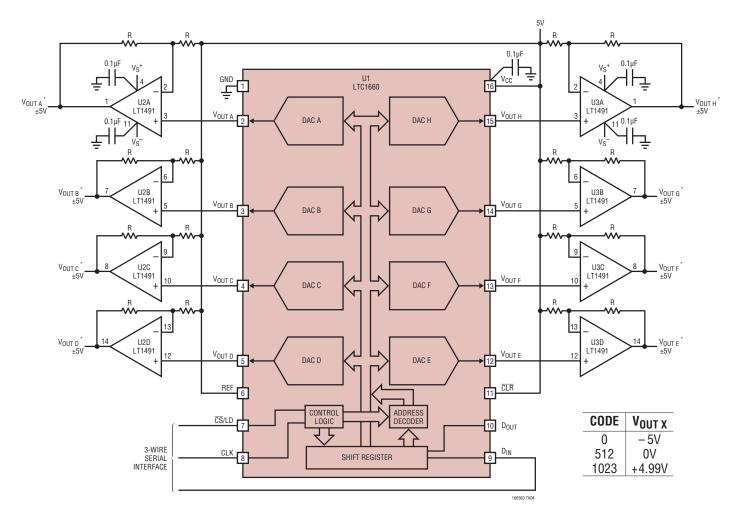


A Low Power Quad Trim Circuit with Coarse/Fine Adjustment

 $\begin{array}{l} \text{R2} >> \text{R1} \\ \text{V}_{\text{OUT 1}} = \text{V}_{\text{OUT A}} + \left(\frac{\text{R1}}{\text{R2}} \right) \text{V}_{\text{OUT B}} \end{array}$ Similarly V_{OUT 2}, V_{OUT 3}, V_{OUT 4} Example: For R1 = 110Ω and R2 = 11k, $V_{OUT 1} = V_{OUT A} + 0.01 V_{OUT B}$



TYPICAL APPLICATIONS



An 8-Channel Bipolar Output Voltage Circuit Configuration



LINEAR

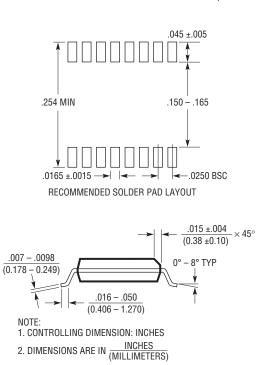


.009 (0.229)

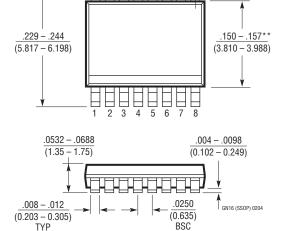
REF

PACKAGE DESCRIPTION

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



GN Package 16-Lead Plastic SSOP (Narrow 0.150) (LTC DWG #05-08-1641)



.189 – .196*

(4.801 - 4.978)

15 16

 \square F

3. DRAWING NOT TO SCALE

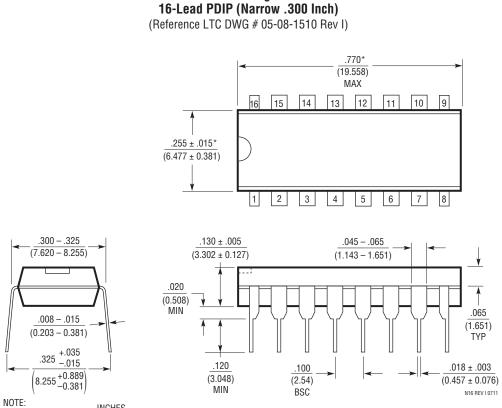
*DIMENSION DOES NOT INCLUDE MOLD FLASH. MOLD FLASH SHALL NOT EXCEED 0.006" (0.152mm) PER SIDE

**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/designtools/packaging/ for the most recent package drawings.



N Package

1. DIMENSIONS ARE <u>INCHES</u> MILLIMETERS

*THESE DIMENSIONS DO NOT INCLUDE MOLD FLASH OR PROTRUSIONS. MOLD FLASH OR PROTRUSIONS SHALL NOT EXCEED .010 INCH (0.254mm)



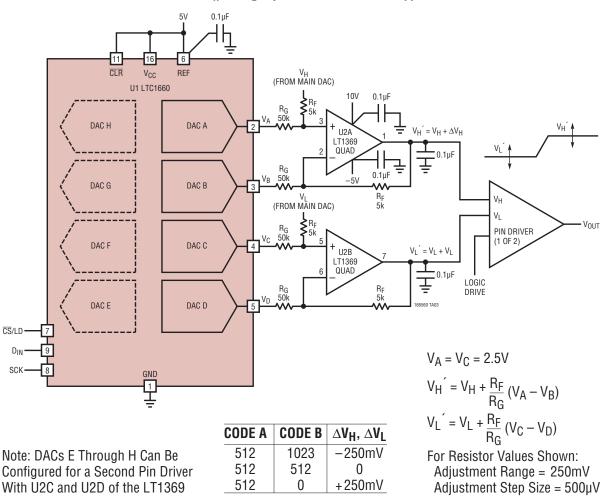


REVISION HISTORY

REV	DATE	DESCRIPTION	PAGE NUMBER
Α	1/12	Removed Typical values in Timing Characteristics	3, 4



TYPICAL APPLICATION



A Pin Driver V_H and V_L Adjustment Circuit for ATE Applications

RELATED PARTS

PART NUMBER	DESCRIPTION	COMMENTS
LTC1661	Dual 10-Bit V _{OUT} DAC in 8-Lead MSOP Package	V _{CC} = 2.7V to 5.5V Micropower Rail-to-Rail Output
LTC1663	Single 10-Bit V _{OUT} DAC in SOT-23 Package	V _{CC} = 2.7V to 5.5V, Internal Reference, 60µA
LTC1446/ LTC1446L	Dual 12-Bit V _{OUT} DACs in SO-8 Package with Internal Reference	LTC1446: $V_{CC} = 4.5V$ to 5.5V, $V_{OUT} = 0V$ to 4.095V LTC1446L: $V_{CC} = 2.7V$ to 5.5V, $V_{OUT} = 0V$ to 2.5V
LTC1448	Dual 12-Bit V _{OUT} DAC in SO-8 Package	V_{CC} = 2.7V to 5.5V, External Reference Can Be Tied to V_{CC}
LTC1454/ LTC1454L	Dual 12-Bit V _{OUT} DACs in SO-16 Package with Added Functionality	LTC1454: $V_{CC} = 4.5V$ to 5.5V, $V_{OUT} = 0V$ to 4.095V LTC1454L: $V_{CC} = 2.7V$ to 5.5V, $V_{OUT} = 0V$ to 2.5V
LTC1458/ LTC1458L	Quad 12-Bit Rail-to-Rail Output DACs with Added Functionality	LTC1458: $V_{CC} = 4.5V$ to 5.5V, $V_{OUT} = 0V$ to 4.095V LTC1458L: $V_{CC} = 2.7V$ to 5.5V, $V_{OUT} = 0V$ to 2.5V
LTC1590	Dual 12-Bit I _{OUT} DAC in SO-16 Package	V_{CC} = 4.5V to 5.5V, 4-Quadrant Multiplication
LTC1659	Single Rail-to-Rail 12-Bit V_{OUT} DAC in 8-Lead MSOP Package $V_{CC}{:}\ 2.7V$ to 5.5V	Low Power Multiplying V_{OUT} DAC. Output Swings from GND to REF. REF Input Can Be Tied to V_{CC}
LT1460	Micropower Precision Series Reference, 2.5V, 5V, 10V Versions	0.075% Max, 10ppm/°C Max, Only 130µA Supply Current

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