

1 Ω On Resistance, ± 15 V/ ± 12 V/ ± 5 V iCMOS SPST Switches

ADG1401/ADG1402

FEATURES

1 Ω on resistance 0.2 Ω on resistance flatness Up to 430 mA continuous current Fully specified at +12 V, \pm 15 V, \pm 5 V No V_L supply required 3 V logic-compatible inputs Rail-to-rail operation 8-lead MSOP and 8-lead, 3 mm \times 2 mm LFCSP packages

APPLICATIONS

Automatic test equipment
Data acquisition systems
Battery-powered systems
Sample-and-hold systems
Audio signal routing
Video signal routing
Communication systems
Relay replacements

FUNCTIONAL BLOCK DIAGRAM

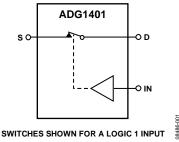


Figure 1. ADG1401 Functional Block Diagram

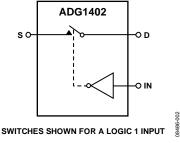


Figure 2. ADG1402 Functional Block Diagram

GENERAL DESCRIPTION

The ADG1401/ADG1402 contain a single-pole/single-throw (SPST) switch. Figure 1 shows that with a logic input of 1, the switch of the ADG1401 is closed and that of the ADG1402 is open. Each switch conducts equally well in both directions when on and has an input signal range that extends to the supplies. In the off condition, signal levels up to the supplies are blocked.

The *i*CMOS* (industrial CMOS) modular manufacturing process combines high voltage, complementary metal-oxide semiconductor (CMOS) and bipolar technologies. It enables the development of a wide range of high performance analog ICs capable of 33 V operation in a footprint that no other generation of high voltage parts has achieved. Unlike analog ICs using conventional CMOS processes, *i*CMOS components can tolerate high supply voltages while providing increased performance, dramatically lower power consumption, and a reduced package size.

The on resistance profile is very flat over the full analog input range ensuring excellent linearity and low distortion when switching audio signals. The *i*CMOS construction ensures ultralow power dissipation, making the part ideally suited for portable and battery-powered instruments.

PRODUCT HIGHLIGHTS

- 1. 1.3Ω maximum on resistance at 25°C.
- 2. Minimum distortion.
- 3. 3 V logic-compatible digital inputs: $V_{INH} = 2.0 \text{ V}$, $V_{INL} = 0.8 \text{ V}$.
- 4. No V_L logic power supply required.
- 5. 8-lead MSOP and 8-lead, $3 \text{ mm} \times 2 \text{ mm}$ LFCSP packages.

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REVISION HISTORY

10/09—Revision 0: Initial Version

SPECIFICATIONS ±15 V DUAL SUPPLY

 V_{DD} = +15 V \pm 10%, V_{SS} = -15 V \pm 10%, GND = 0 V, unless otherwise noted.

Table 1.

Parameter	25°C	−40°C to +85°C	−40°C to +125°C	Unit	Test Conditions/Comments
ANALOG SWITCH					
Analog Signal Range			$V_{\text{DD}}toV_{\text{SS}}$	V	
On Resistance, Ron	1			Ωtyp	$V_S = \pm 10 \text{ V}, I_S = -10 \text{ mA}$; see Figure 20
	1.3	1.6	1.8	Ω max	$V_{DD} = +13.5 \text{ V}, V_{SS} = -13.5 \text{ V}$
On Resistance Flatness, RFLAT (ON)	0.2			Ωtyp	$V_S = \pm 10 \text{ V}; I_S = -10 \text{ mA}$
	0.23	0.26	0.3	Ω max	
LEAKAGE CURRENTS					$V_{DD} = +16.5 \text{ V}, V_{SS} = -16.5 \text{ V}$
Source Off Leakage, Is (Off)	±0.05			nA typ	$V_S = \pm 10 \text{ V}, V_D = \pm 10 \text{ V}; \text{ see Figure 21}$
-	±0.4	±3	±150	nA max	_
Drain Off Leakage, I _D (Off)	±0.05			nA typ	$V_S = \pm 10 \text{ V}, V_D = \pm 10 \text{ V}; \text{ see Figure 21}$
-	±0.4	±3	±150	nA max	
Channel On Leakage, ID, IS (On)	±0.2			nA typ	$V_S = V_D = \pm 10 \text{ V}$; see Figure 22
5	±1	±3	±150	nA max	
DIGITAL INPUTS					
Input High Voltage, VINH			2.0	V min	
Input Low Voltage, V _{INL}			0.8	V max	
Input Current, l _{INL} or l _{INH}	0.002			μA typ	$V_{IN} = V_{GND}$ or V_{DD}
,			±0.1	μA max	
Digital Input Capacitance, C _{IN}	4			pF typ	
DYNAMIC CHARACTERISTICS ¹				F: -7F	
t _{on}	120			ns typ	$R_L = 300 \Omega, C_L = 35 pF$
· ON	150	185	215	ns max	$V_S = 10 \text{ V}$; see Figure 23
t _{OFF}	120	.03	2.5	ns typ	$R_L = 300 \Omega$, $C_L = 35 pF$
COFF	150	175	200	ns max	$V_s = 10 \text{ V}$; see Figure 23
Charge Injection	-12	173	200	pC typ	$V_S = 0 \text{ V}$, See Figure 23 $V_S = 0 \text{ V}$, $R_S = 0 \Omega$, $C_L = 1 \text{ nF}$; see Figure 24
Off Isolation	-58			dB typ	$R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$; see Figure 25
Total Harmonic Distortion + Noise	0.008			% typ	$R_L = 10 \text{ k}\Omega$, 5 V rms, f = 20 Hz to 20 kHz;
Total Harmonic Distortion 1 Noise	0.000			/0 typ	see Figure 27
–3 dB Bandwidth	120			MHz typ	$R_L = 50 \Omega$, $C_L = 5 pF$; see Figure 26
Insertion Loss	0.08			dB typ	$R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$; see Figure 26
C _s (Off)	36			pF typ	$f = 1 MHz, V_S = 0 V$
C _D (Off)	41			pF typ	$f = 1 MHz, V_S = 0 V$
C_D , C_S (On)	187			pF typ	$f = 1 MHz, V_S = 0 V$
POWER REQUIREMENTS					$V_{DD} = +16.5 \text{ V}, V_{SS} = -16.5 \text{ V}$
I_{DD}	0.002			μA typ	Digital inputs = 0 V or V _{DD}
			1.0	μA max	
I _{DD}	60			μA typ	Digital inputs = 5 V
			95	μA max	
Iss	0.002			μA typ	Digital inputs = 0 V, 5 V, or V _{DD}
			1.0	μA max	5
V _{DD} /V _{SS}			±4.5/±16.5	V min/max	Ground = 0 V

 $^{^{\}mbox{\tiny 1}}$ Guaranteed by design, not subject to production test.

+12 V SINGLE SUPPLY

 V_{DD} = +12 V ± 10%, V_{SS} = 0 V, GND = 0 V, unless otherwise noted.

Table 2.

Parameter	25°C	−40°C to +85°C	−40°C to +125°C	Unit	Test Conditions/Comments
ANALOG SWITCH					
Analog Signal Range			$0VtoV_{DD}$	V	
On Resistance, R _{ON}	2			Ωtyp	$V_S = 0 \text{ V to } 10 \text{ V}, I_S = -10 \text{ mA}; \text{ see Figure } 20$
	2.4	2.9	3.2	Ω max	$V_{DD} = 10.8 \text{ V}, V_{SS} = 0 \text{ V}$
On Resistance Flatness, R _{FLAT (ON)}	0.6			Ωtyp	$V_S = 0 \text{ V to } 10 \text{ V}, I_S = -10 \text{ mA}$
	0.68	0.8	0.85	Ω max	
LEAKAGE CURRENTS					$V_{DD} = 13.2 \text{ V}, V_{SS} = 0 \text{ V}$
Source Off Leakage, Is (Off)	±0.05			nA typ	$V_S = 1 \text{ V}/10 \text{ V}, V_D = 10 \text{ V}/1 \text{ V}; \text{ see Figure 21}$
-	±0.4	±3	±150	nA max	
Drain Off Leakage, I _D (Off)	±0.05			nA typ	$V_S = 1 \text{ V}/10 \text{ V}, V_D = 10 \text{ V}/1 \text{ V}; \text{ see Figure 21}$
	±0.4	±3	±150	nA max	
Channel On Leakage, ID, Is (On)	±0.2			nA typ	$V_S = V_D = 1 \text{ V or } 10 \text{ V}$; see Figure 22
	±1	±3	±150	nA max	
DIGITAL INPUTS					
Input High Voltage, V _{INH}			2.0	V min	
Input Low Voltage, V _{INL}			0.8	V max	
Input Current, I _{INL} or I _{INH}	0.002			μA typ	$V_{IN} = V_{GND}$ or V_{DD}
,			±0.1	μA max	
Digital Input Capacitance, C _{IN}	4			pF typ	
DYNAMIC CHARACTERISTICS ¹				1 /1	
ton	180			ns typ	$R_L = 300 \Omega$, $C_L = 35 pF$
	235	295	335	ns max	$V_s = 8 \text{ V}$; see Figure 23
toff	140			ns typ	$R_L = 300 \Omega$, $C_L = 35 pF$
	185	215	260	ns max	$V_s = 8 \text{ V}$; see Figure 23
Charge Injection	57			pC typ	$V_S = 6 \text{ V}, R_S = 0 \Omega, C_L = 1 \text{ nF}; \text{ see Figure 24}$
Off Isolation	-58			dB typ	$R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$; see Figure 25
–3 dB Bandwidth	82			MHz typ	$R_L = 50 \Omega$, $C_L = 5 pF$; see Figure 26
Insertion Loss	0.15			dB typ	$R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$; see Figure 26
C _s (Off)	61			pF typ	$f = 1 \text{ MHz}, V_S = 6 \text{ V}$
C _D (Off)	68			pF typ	$f = 1 \text{ MHz}, V_S = 6 \text{ V}$
C _D , C _s (On)	181			pF typ	$f = 1 \text{ MHz}, V_S = 6 \text{ V}$
POWER REQUIREMENTS				1 71	$V_{DD} = 13.2 \text{ V}$
IDD	0.001			μA typ	Digital inputs = 0 V or V _{DD}
			1.0	μA max	, , , , , , , , , , , , , , , , , , , ,
Ipp	60			μA typ	Digital inputs = 5 V
			95	μA max	3
V_{DD}			5/16.5	V min/max	Ground = 0 V , $V_{SS} = 0 \text{ V}$

¹ Guaranteed by design, not subject to production test.

±5 V DUAL SUPPLY

 V_{DD} = +5 V \pm 10%, V_{SS} = -5 V \pm 10%, GND = 0 V, unless otherwise noted.

Table 3.

Parameter	25°C	−40°C to +85°C	−40°C to +125°C	Unit	Test Conditions/Comments
ANALOG SWITCH					
Analog Signal Range			$0VtoV_{DD}$	V	
On Resistance, R _{ON}	2.3			Ωtyp	$V_S = \pm 4.5 \text{ V}, I_S = -10 \text{ mA}$; see Figure 20
	2.7	3.3	3.7	Ω max	$V_{DD} = +4.5 \text{ V}, V_{SS} = -4.5 \text{ V}$
On Resistance Flatness, R _{FLAT (ON)}	0.65			Ωtyp	$V_S = \pm 4.5 \text{ V, } I_S = -10 \text{ mA}$
	0.72	0.85	0.9	Ω max	
LEAKAGE CURRENTS					$V_{DD} = +5.5 \text{ V}, V_{SS} = -5.5 \text{ V}$
Source Off Leakage, Is (Off)	±0.02			nA typ	$V_S = \pm 4.5 \text{ V}, V_D = \mp 4.5 \text{ V}; \text{ see Figure 21}$
	±0.4	±3	±150	nA max	V ₃ = ±4.5 V, V ₀ = +4.5 V, See Figure 21
Drain Off Leakage, I _D (Off)	±0.02	<u> </u>	1130	nA typ	
Drain on Leakage, in (on)		. 0	.450		$V_S = \pm 4.5 \text{ V, } V_D = \mp 4.5 \text{ V; see Figure 21}$
	±0.4	±3	±150	nA max	W W 145W 5: 00
Channel On Leakage, ID, IS (On)	±0.1	_		nA typ	$V_S = V_D = \pm 4.5 \text{ V}$; see Figure 22
	±1	±3	±150	nA max	
DIGITAL INPUTS					
Input High Voltage, V _{INH}			2.0	V min	
Input Low Voltage, V _{INL}			0.8	V max	
Input Current, I _{INL} or I _{INH}	0.002			μA typ	$V_{IN} = V_{GND} \text{ or } V_{DD}$
			±0.1	μA max	
Digital Input Capacitance, C _{IN}	4			pF typ	
DYNAMIC CHARACTERISTICS ¹					
t _{on}	290			ns typ	$R_L = 300 \Omega, C_L = 35 pF$
	375	460	520	ns max	$V_s = 3 V$; see Figure 23
t _{OFF}	235			ns typ	$R_L = 300 \Omega$, $C_L = 35 pF$
	305	365	405	ns max	$V_S = 3 V$; see Figure 23
Charge Injection	145			pC typ	$V_S = 0 \text{ V}$, $R_S = 0 \Omega$, $C_L = 1 \text{ nF}$; see Figure 24
Off Isolation	-58			dB typ	$R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$; see Figure 25
Total Harmonic Distortion + Noise	0.02			% typ	$R_L = 10 \text{ k}\Omega$, 5 V p-p, f = 20 Hz to 20 kHz; see Figure 27
–3 dB Bandwidth	79			MHz typ	$R_L = 50 \Omega$, $C_L = 5 pF$; see Figure 26
Insertion Loss	0.14			dB typ	$R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$; see Figure 26
C _s (Off)	52			pF typ	$V_S = 0 V, f = 1 MHz$
C _D (Off)	58			pF typ	$V_S = 0 \text{ V, } f = 1 \text{ MHz}$
C_D , C_S (On)	198			pF typ	$V_S = 0 V, f = 1 MHz$
POWER REQUIREMENTS					$V_{DD} = +5.5 \text{ V}, V_{SS} = -5.5 \text{ V}$
I _{DD}	0.001			μA typ	Digital inputs = 0 V or V_{DD}
			1.0	μA max	
Iss	0.001			μA typ	Digital inputs = 0 V or V _{DD}
			1.0	μA max	
V _{DD} /V _{SS}			±4.5/±16.5	V min/max	Ground = 0 V

¹ Guaranteed by design, not subject to production test.

CONTINUOUS CURRENT PER CHANNEL, S OR D

Table 4.

Parameter	25°C	85°C	125°C	Unit	Test Conditions/Comments
CONTINUOUS CURRENT, S or D1					
±15 V Dual Supply					$V_{DD} = +13.5 \text{ V}, V_{SS} = -13.5 \text{ V}$
8-Lead MSOP ($\theta_{JA} = 206^{\circ}\text{C/W}$)	275	190	125	mA maximum	
8-Lead LFCSP ($\theta_{JA} = 50.8$ °C/W)	430	275	160	mA maximum	
+12 V Single Supply					$V_{DD} = 10.8 \text{ V}, V_{SS} = 0 \text{ V}$
8-Lead MSOP ($\theta_{JA} = 206^{\circ}\text{C/W}$)	255	180	120	mA maximum	
8-Lead LFCSP ($\theta_{JA} = 50.8$ °C/W)	355	235	145	mA maximum	
±5 V Dual Supply					$V_{DD} = +4.5 \text{ V}, V_{SS} = -4.5 \text{ V}$
8-Lead MSOP ($\theta_{JA} = 206^{\circ}\text{C/W}$)	250	175	120	mA maximum	
8-Lead LFCSP ($\theta_{JA} = 50.8$ °C/W)	340	225	140	mA maximum	

¹ Guaranteed by design, not subject to production test.

ABSOLUTE MAXIMUM RATINGS

 $T_A = 25$ °C, unless otherwise noted.

Table 5.

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Parameter	Rating
V _{DD} to V _{SS}	35 V
V _{DD} to GND	−0.3 V to +25 V
V _{SS} to GND	+0.3 V to −25 V
Analog Inputs ¹	V_{SS} – 0.3 V to V_{DD} + 0.3 V or 30 mA, whichever occurs first
Digital Inputs ¹	GND -0.3 V to $V_{DD} + 0.3$ V or 30 mA, whichever occurs first
Peak Current, S or D (Pulsed at 1 ms, 10% Duty-Cycle Maximum)	
8-Lead MSOP (4-Layer Board)	500 mA
8-Lead LFCSP	700 mA
Continuous Current per Channel, S or D	Data in Table 4 + 15%
Operating Temperature Range	
Industrial	-40°C to +125°C
Storage Temperature Range	−65°C to +150°C
Junction Temperature	150°C
Reflow Soldering Peak Temperature, Pb Free	260°C

¹ Over voltages at IN, S, or D are clamped by internal diodes. Current should be limited to the maximum ratings given.

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

THERMAL RESISTANCE

Table 6. Thermal Resistance

Package Type	θ _{JA}	Ө лс	Unit
8-Lead MSOP (4-Layer Board)	206	44	°C/W
8-Lead LFCSP	50.8		°C/W

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

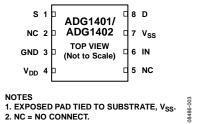


Figure 3. ADG1401/ADG1402 Pin Configuration

Table 7. ADG1401/ADG1402 Pin Function Descriptions

Pin No.	Mnemonic	Description
1	S	Source Terminal. This pin can be an input or output.
2	NC	No Connect.
3	GND	Ground (0 V) Reference.
4	V_{DD}	Most Positive Power Supply Potential.
5	NC	No Connect.
6	IN	Logic Control Input.
7	Vss	Most Negative Power Supply Potential.
8	D	Drain Terminal. This pin can be an input or output.
	EPAD	Exposed pad tied to substrate, V _{SS} , for LFCSP package.

Table 8. ADG1401/ADG1402 Truth Table

ADG1401 IN	ADG1402 IN	Switch Condition
1	0	On
0	1	Off

TYPICAL PERFORMANCE CHARACTERISTICS

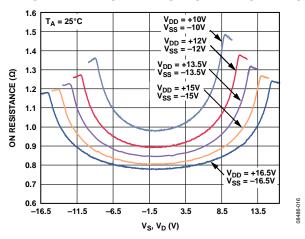


Figure 4. On Resistance as a Function of V_D (V_S) for Dual Supply

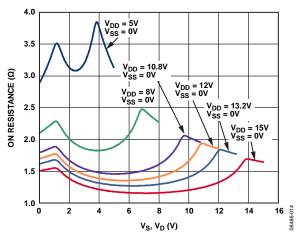


Figure 5. On Resistance as a Function of V_D (V_S) for Single Supply

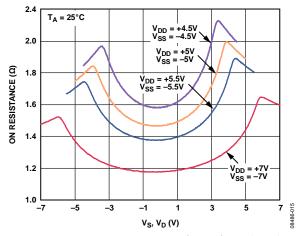


Figure 6. On Resistance as a Function of V_D (V_S) for Dual Supply

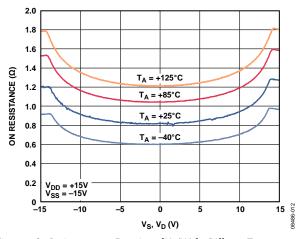


Figure 7. On Resistance as a Function of V_D (Vs) for Different Temperatures, ± 15 V Dual Supply

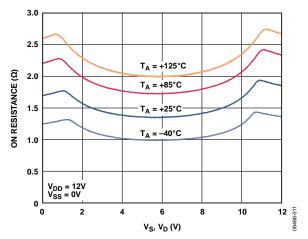


Figure 8. On Resistance as a Function of V_D (V_S) for Different Temperatures, +12 V Single Supply

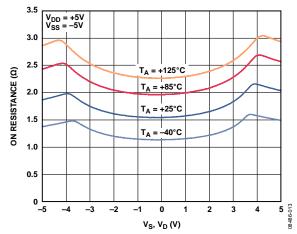


Figure 9. On Resistance as a Function of V_D (V_S) for Different Temperatures, ± 5 V Dual Supply

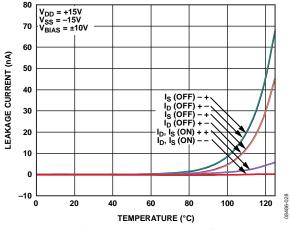


Figure 10. Leakage Currents as a Function of Temperature, ± 15 V Dual Supply

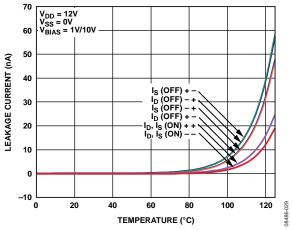


Figure 11. Leakage Currents as a Function of Temperature, +12 V Single Supply

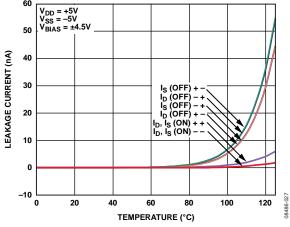


Figure 12. Leakage Currents as a Function of Temperature, ±5 V Dual Supply

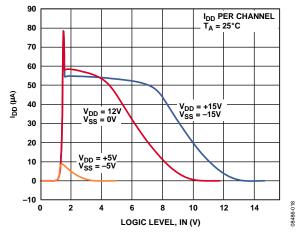


Figure 13. IDD vs. Logic Level

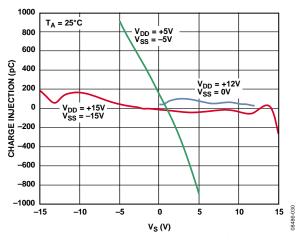


Figure 14. Charge Injection vs. Source Voltage

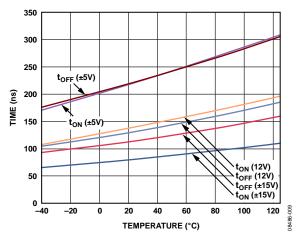


Figure 15. t_{ON}/t_{OFF} Times vs. Temperature

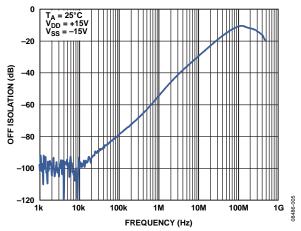


Figure 16. Off Isolation vs. Frequency

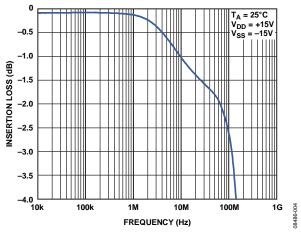


Figure 17. On Response vs. Frequency

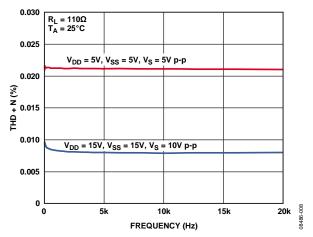


Figure 18. THD + N vs. Frequency

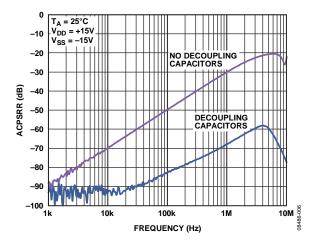


Figure 19. ACPSRR vs. Frequency

TEST CIRCUITS

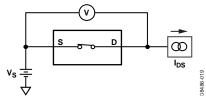
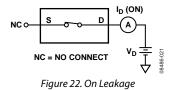


Figure 20. On Resistance



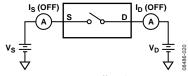


Figure 21. Off Leakage

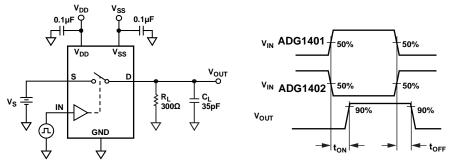


Figure 23. Switching Times, t_{ON} and t_{OFF}

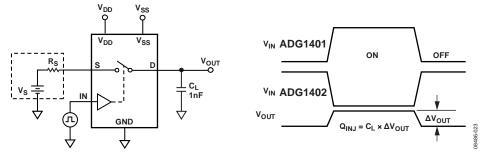
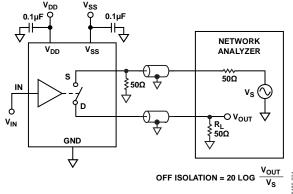


Figure 24. Charge Injection



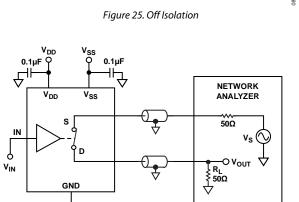


Figure 26. Bandwidth

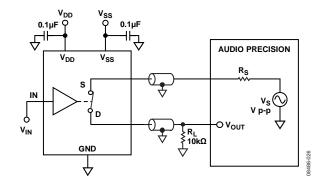


Figure 27. THD + N

TERMINOLOGY

 I_{DD}

The positive supply current.

Iss

The negative supply current.

 $V_D(V_S)$

The analog voltage on Terminal D and Terminal S.

RON

The ohmic resistance between Terminal D and Terminal S.

R_{FLAT} (ON)

Flatness is defined as the difference between the maximum and minimum value of on resistance as measured over the specified analog signal range.

Is (Off)

The source leakage current with the switch off.

ID (Off)

The drain leakage current with the switch off.

 I_D , I_S (On)

The channel leakage current with the switch on.

 \mathbf{V}_{INI}

The maximum input voltage for Logic 0.

 V_{INH}

The minimum input voltage for Logic 1.

IINL (IINH)

The input current of the digital input.

Cs (Off)

The off switch source capacitance, measured with reference to ground.

CD (Off)

The off switch drain capacitance, measured with reference to ground.

C_D , C_S (On)

The on switch capacitance, measured with reference to ground.

CIN

The digital input capacitance.

ton

Delay time between the 50% and 90% points of the digital input and switch on condition. See Figure 23.

tor

Delay time between the 50% and 90% points of the digital input and switch off condition. See Figure 23.

Charge Injection

A measure of the glitch impulse transferred from the digital input to the analog output during switching. See Figure 24.

Off Isolation

A measure of unwanted signal coupling through an off switch. See Figure 25.

Bandwidth

The frequency at which the output is attenuated by 3 dB. See Figure 26.

On Response

The frequency response of the on switch.

Insertion Loss

The loss due to the on resistance of the switch. See Figure 26.

THD + N

The ratio of the harmonic amplitude plus noise of the signal to the fundamental. See Figure 27.

AC Power Supply Rejection Ratio (ACPSRR)

ACPSRR measures the ability of a part to avoid coupling noise and spurious signals that appear on the supply voltage pin to the output of the switch. The dc voltage on the device is modulated by a sine wave of 0.62 V p-p. The ratio of the amplitude of the signal on the output to the amplitude of the modulation is the ACPSRR. See Figure 19.

OUTLINE DIMENSIONS

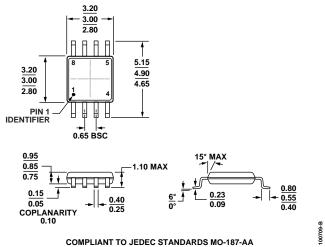


Figure 28. 8-Lead Mini Small Outline Package [MSOP] (RM-8) Dimensions shown in millimeters

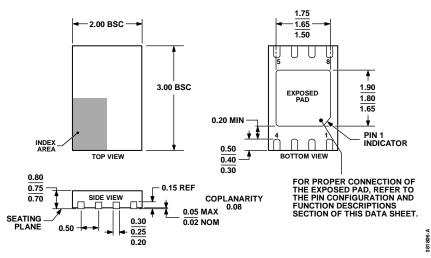


Figure 29. 8-Lead Lead Frame Chip Scale Package [LFCSP_WD] 3 mm × 2 mm Body, Very Very Thin, Dual Lead (CP-8-4) Dimensions shown in millimeters

ORDERING GUIDE

Model	Temperature Range	Package Description	Package Option	Branding
ADG1401BRMZ ¹	−40°C to +125°C	8-Lead Mini Small Outline Package [MSOP]	RM-8	S2T
ADG1401BRMZ-REEL7 ¹	−40°C to +125°C	8-Lead Mini Small Outline Package [MSOP]	RM-8	S2T
ADG1401BCPZ-REEL7 ¹	−40°C to +125°C	8-Lead Lead Frame Chip Scale Package [LFCSP_WD]	CP-8-4	2Y
ADG1402BRMZ ¹	−40°C to +125°C	8-Lead Mini Small Outline Package [MSOP]	RM-8	S2U
ADG1402BRMZ-REEL7 ¹	−40°C to +125°C	8-Lead Mini Small Outline Package [MSOP]	RM-8	S2U
ADG1402BCPZ-REEL7 ¹	-40°C to +125°C	8-Lead Lead Frame Chip Scale Package [LFCSP_WD]	CP-8-4	1F

¹ Z = RoHS Compliant Part.

ADG1401/ADG1402	
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NOTES



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PI5A4157ZUEX PI5A3166TAEX FSA634UCX TC4066BP(N,F) DG302BDJ-E3 PI5A100QEX HV2605FG-G HV2301FG-G

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NLAS4157DFT2G NLAS4599DFT2G NLASB3157DFT2G NLAST4599DFT2G NLAST4599DTT1G DG300BDJ-E3 DG2503DB-T2-GE1

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