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REVISION HISTORY

11/09—Rev. 0 to Rev. A

Changes to Analog Signal Range Parameter and to On Resistance, R_{ON} Parameter, Table 1	3
Change to Digital Input Capacitance, C_{IN} Parameter, Table 2	4
Changes to Table 4 and to Absolute Maximum Ratings Section.....	6
Added Table 5; Renumbered Sequentially	7
Updated Outline Dimensions	14
Changes to Ordering Guide	14

1/02—Revision 0: Initial Version

SPECIFICATIONS

DUAL-SUPPLY OPERATION

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

Table 1.

Parameter	+25°C	–40°C to +85°C	–40°C to +125°C ¹	Unit	Test Conditions/Comments
ANALOG SWITCH					
Analog Signal Range			V_{SS} to V_{DD}	V	
On Resistance, R_{ON}	85			Ω typ	$V_S = \pm 3\text{ V}$, $I_S = -1\text{ mA}$; see Figure 14
	115	140	160	Ω max	$V_S = \pm 3\text{ V}$, $I_S = -1\text{ mA}$; see Figure 14
On-Resistance Match Between Channels, ΔR_{ON}	2			Ω typ	$V_S = \pm 3\text{ V}$, $I_S = -1\text{ mA}$
	4	5.5	6.5	Ω max	$V_S = \pm 3\text{ V}$, $I_S = -1\text{ mA}$
On-Resistance Flatness, $R_{FLAT(ON)}$	25			Ω typ	$V_S = \pm 3\text{ V}$, $I_S = -1\text{ mA}$
	40	55	60	Ω max	$V_S = \pm 3\text{ V}$, $I_S = -1\text{ mA}$
LEAKAGE CURRENTS					
Source Off Leakage, $I_{S(OFF)}$	± 0.01			nA typ	$V_{DD} = +5.5\text{ V}$, $V_{SS} = -5.5\text{ V}$
	± 0.1	± 0.25	± 2	nA max	$V_D = \pm 4.5\text{ V}$, $V_S = \mp 4.5\text{ V}$; see Figure 15
Drain Off Leakage, $I_{D(OFF)}$	± 0.01			nA typ	$V_D = \pm 4.5\text{ V}$, $V_S = \mp 4.5\text{ V}$; see Figure 15
	± 0.1	± 0.25	± 2	nA max	$V_D = \pm 4.5\text{ V}$, $V_S = \mp 4.5\text{ V}$; see Figure 15
Channel On Leakage, $I_{D(ON)}$, $I_{S(ON)}$	± 0.01			nA typ	$V_D = V_S = \pm 4.5\text{ V}$; see Figure 16
	± 0.1	± 0.25	± 6	nA max	$V_D = V_S = \pm 4.5\text{ V}$; see Figure 16
DIGITAL INPUTS					
Input High Voltage, V_{INH}			2.4	V min	
Input Low Voltage, V_{INL}			0.8	V max	
Input Current, I_{INL} or I_{INH}	0.005			μA typ	$V_{IN} = V_{INL}$ or V_{INH}
			± 0.1	μA max	$V_{IN} = V_{INL}$ or V_{INH}
Digital Input Capacitance, C_{IN}	2			pF typ	
DYNAMIC CHARACTERISTICS²					
t_{ON}	45			ns typ	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$, $V_S = 3.0\text{ V}$; see Figure 17
	65	75	90	ns max	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$, $V_S = 3.0\text{ V}$; see Figure 17
t_{OFF}	25			ns typ	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$, $V_S = 3.0\text{ V}$; see Figure 17
	40	45	50	ns max	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$, $V_S = 3.0\text{ V}$; see Figure 17
Break-Before-Make Time Delay, t_{BBM}	15			ns typ	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$, $V_{S1} = V_{S2} = 3.0\text{ V}$; see Figure 18
			10	ns min	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$, $V_{S1} = V_{S2} = 3.0\text{ V}$; see Figure 18
Charge Injection	–0.5			pC typ	$V_S = 0\text{ V}$, $R_S = 0\ \Omega$, $C_L = 1\text{ nF}$; see Figure 19
Off Isolation	–65			dB typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$, $f = 10\text{ MHz}$; see Figure 20
Channel-to-Channel Crosstalk	–90			dB typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$, $f = 10\text{ MHz}$; see Figure 21
–3 dB Bandwidth	680			MHz typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$; see Figure 22
$C_{S(OFF)}$	5			pF typ	$f = 1\text{ MHz}$
$C_{D(OFF)}$	5			pF typ	$f = 1\text{ MHz}$
$C_{D(ON)}$, $C_{S(ON)}$	5			pF typ	$f = 1\text{ MHz}$
POWER REQUIREMENTS					
I_{DD}	0.001			μA typ	$V_{DD} = +5.5\text{ V}$, $V_{SS} = -5.5\text{ V}$
			1.0	μA max	Digital inputs = 0 V or 5.5 V
I_{SS}	0.001			μA typ	Digital inputs = 0 V or 5.5 V
			1.0	μA max	Digital inputs = 0 V or 5.5 V

¹ The temperature range for the Y version is –40°C to +125°C.

² Guaranteed by design; not subject to production test.

ADG611/ADG612/ADG613

SINGLE-SUPPLY OPERATION

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

Table 2.

Parameter	+25°C	–40°C to +85°C	–40°C to +125°C ¹	Unit	Test Conditions/Comments
ANALOG SWITCH					
Analog Signal Range			0 to V_{DD}	V	
On Resistance, R_{ON}	210			Ω typ	$V_S = 3.5\text{ V}$, $I_S = -1\text{ mA}$; see Figure 14
	290	350	380	Ω max	$V_S = 3.5\text{ V}$, $I_S = -1\text{ mA}$; see Figure 14
On-Resistance Match Between Channels, ΔR_{ON}	3			Ω typ	$V_S = 3.5\text{ V}$, $I_S = -1\text{ mA}$
	10	12	13	Ω max	$V_S = 3.5\text{ V}$, $I_S = -1\text{ mA}$
LEAKAGE CURRENTS					$V_{DD} = 5.5\text{ V}$
Source Off Leakage, $I_{S(OFF)}$	± 0.01			nA typ	$V_S = 1\text{ V}/4.5\text{ V}$, $V_D = 4.5\text{ V}/1\text{ V}$; see Figure 15
	± 0.1	± 0.25	± 2	nA max	$V_S = 1\text{ V}/4.5\text{ V}$, $V_D = 4.5\text{ V}/1\text{ V}$; see Figure 15
Drain Off Leakage, $I_{D(OFF)}$	± 0.01			nA typ	$V_S = 1\text{ V}/4.5\text{ V}$, $V_D = 4.5\text{ V}/1\text{ V}$; see Figure 15
	± 0.1	± 0.25	± 2	nA max	$V_S = 1\text{ V}/4.5\text{ V}$, $V_D = 4.5\text{ V}/1\text{ V}$; see Figure 15
Channel On Leakage, $I_{D(ON)}$, $I_{S(ON)}$	± 0.01			nA typ	$V_S = V_D = 1\text{ V}$ or 4.5 V ; see Figure 16
	± 0.1	± 0.25	± 6	nA max	$V_S = V_D = 1\text{ V}$ or 4.5 V ; see Figure 16
DIGITAL INPUTS					
Input High Voltage, V_{INH}			2.4	V min	
Input Low Voltage, V_{INL}			0.8	V max	
Input Current, I_{INL} or I_{INH}	0.005			μA typ	$V_{IN} = V_{INL}$ or V_{INH}
			± 0.1	μA max	$V_{IN} = V_{INL}$ or V_{INH}
Digital Input Capacitance, C_{IN}	2			pF typ	
DYNAMIC CHARACTERISTICS ²					
t_{ON}	70			ns typ	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$, $V_S = 3.0\text{ V}$; see Figure 17
	100	130	150	ns max	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$, $V_S = 3.0\text{ V}$; see Figure 17
t_{OFF}	25			ns typ	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$, $V_S = 3.0\text{ V}$; see Figure 17
	40	45	50	ns max	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$, $V_S = 3.0\text{ V}$; see Figure 17
Break-Before-Make Time Delay, t_{BBM}	25			ns typ	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$, $V_{S1} = V_{S2} = 3.0\text{ V}$; see Figure 18
			10	ns min	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$, $V_{S1} = V_{S2} = 3.0\text{ V}$; see Figure 18
Charge Injection	1			pC typ	$V_S = 0\text{ V}$, $R_S = 0\ \Omega$, $C_L = 1\text{ nF}$; see Figure 19
Off Isolation	–62			dB typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$, $f = 10\text{ MHz}$; see Figure 20
Channel-to-Channel Crosstalk	–90			dB typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$, $f = 10\text{ MHz}$; see Figure 21
–3 dB Bandwidth	680			MHz typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$; see Figure 22
$C_{S(OFF)}$	5			pF typ	$f = 1\text{ MHz}$
$C_{D(OFF)}$	5			pF typ	$f = 1\text{ MHz}$
$C_{D(ON)}$, $C_{S(ON)}$	5			pF typ	$f = 1\text{ MHz}$
POWER REQUIREMENTS					$V_{DD} = 5.5\text{ V}$
I_{DD}	0.001			μA typ	Digital inputs = 0 V or 5.5 V
			1.0	μA max	Digital inputs = 0 V or 5.5 V

¹ The temperature range for the Y version is –40°C to +125°C.

² Guaranteed by design; not subject to production test.

$V_{DD} = 3\text{ V} \pm 10\%$, $V_{SS} = 0\text{ V}$, $GND = 0\text{ V}$, unless otherwise noted.

Table 3.

Parameter	+25°C	−40°C to +85°C	−40°C to +125°C ¹	Unit	Test Conditions/Comments
ANALOG SWITCH					
Analog Signal Range			0 to V_{DD}	V	
On Resistance, R_{ON}	380	420	460	Ω typ	$V_S = 1.5\text{ V}$, $I_S = -1\text{ mA}$; see Figure 14
LEAKAGE CURRENTS					
Source Off Leakage, $I_{S(OFF)}$	± 0.01			nA typ	$V_{DD} = 3.3\text{ V}$ $V_S = 1\text{ V}/3\text{ V}$, $V_D = 3\text{ V}/1\text{ V}$; see Figure 15
	± 0.1	± 0.25	± 2	nA max	$V_S = 1\text{ V}/3\text{ V}$, $V_D = 3\text{ V}/1\text{ V}$; see Figure 15
Drain Off Leakage, $I_{D(OFF)}$	± 0.01			nA typ	$V_S = 1\text{ V}/3\text{ V}$, $V_D = 3\text{ V}/1\text{ V}$; see Figure 15
	± 0.1	± 0.25	± 2	nA max	$V_S = 1\text{ V}/3\text{ V}$, $V_D = 3\text{ V}/1\text{ V}$; see Figure 15
Channel On Leakage, $I_{D(ON)}$, $I_{S(ON)}$	± 0.01			nA typ	$V_S = V_D = 1\text{ V}$ or 3 V ; see Figure 16
	± 0.1	± 0.25	± 6	nA max	$V_S = V_D = 1\text{ V}$ or 3 V ; see Figure 16
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}	0.005			μA typ	$V_{IN} = V_{INL}$ or V_{INH}
			± 0.1	μA max	$V_{IN} = V_{INL}$ or V_{INH}
Digital Input Capacitance, C_{IN}	2			pF typ	
DYNAMIC CHARACTERISTICS²					
t_{ON}	130			ns typ	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$, $V_S = 2\text{ V}$; see Figure 17
	185	230	260	ns max	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$, $V_S = 2\text{ V}$; see Figure 17
t_{OFF}	40			ns typ	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$, $V_S = 2\text{ V}$; see Figure 17
	55	60	65	ns max	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$, $V_S = 2\text{ V}$; see Figure 17
Break-Before-Make Time Delay, t_{BBM}	50			ns typ	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$, $V_{S1} = V_{S2} = 2\text{ V}$; see Figure 18
			10	ns min	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$, $V_{S1} = V_{S2} = 2\text{ V}$; see Figure 18
Charge Injection	1.5			pC typ	$V_S = 0\text{ V}$, $R_S = 0\ \Omega$, $C_L = 1\text{ nF}$; see Figure 19
Off Isolation	−62			dB typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$, $f = 10\text{ MHz}$; see Figure 20
Channel-to-Channel Crosstalk	−90			dB typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$, $f = 10\text{ MHz}$; see Figure 21
−3 dB Bandwidth	680			MHz typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$; see Figure 22
$C_{S(OFF)}$	5			pF typ	$f = 1\text{ MHz}$
$C_{D(OFF)}$	5			pF typ	$f = 1\text{ MHz}$
$C_{D(ON)}$, $C_{S(ON)}$	5			pF typ	$f = 1\text{ MHz}$
POWER REQUIREMENTS					
I_{DD}	0.001			μA typ	$V_{DD} = 3.3\text{ V}$ Digital inputs = 0 V or 3.3 V
			1.0	μA max	Digital inputs = 0 V or 3.3 V

¹ The temperature range for the Y version is −40°C to +125°C.

² Guaranteed by design; not subject to production test.

ABSOLUTE MAXIMUM RATINGS

T_A = 25°C, unless otherwise noted

Table 4.

Parameter	Rating
V _{DD} to V _{SS}	13 V
V _{DD} to GND	–0.3 V to +6.5 V
V _{SS} to GND	+0.3 V to –6.5 V
Analog Inputs ¹	V _{SS} – 0.3 V to V _{DD} + 0.3 V
Digital Inputs ¹	GND – 0.3 V to V _{DD} + 0.3 V or 30 mA, whichever occurs first
Peak Current, S or D	20 mA (pulsed at 1 ms, 10% duty cycle maximum)
Continuous Current, S or D	10 mA
3 V operation 85°C to 125°C	7.5 mA
Operating Temperature Range	
Automotive (Y Version)	–40°C to +125°C
Storage Temperature Range	–65°C to +150°C
Junction Temperature	150°C
θ _{JA} Thermal Impedance	
16-Lead TSSOP	150.4°C/W
16-Lead SOIC, 4-Layer Board	80.6°C/W
Lead Soldering	
Lead Temperature, Soldering (10 sec)	300°C
IR Reflow, Peak Temperature (<20 sec)	220°C
(Pb-Free) Soldering	
Reflow, Peak Temperature	260(+0/–5)°C
Time at Peak Temperature	20 sec to 40 sec

¹Overvoltages at IN, S, or D are clamped by internal diodes. The 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.

Only one absolute maximum rating can be applied at any one time.

ESD CAUTION



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

PIN CONFIGURATION AND FUNCTION DESCRIPTIONS

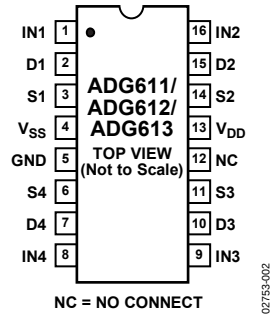


Figure 2. Pin Configuration

Table 5. Pin Function Descriptions

Pin No.	Mnemonic	Description
1	IN1	Switch 1 Digital Control Input.
2	D1	Drain Terminal of Switch 1. Can be an input or output.
3	S1	Source Terminal of Switch 1. Can be an input or output.
4	V _{SS}	Most Negative Power Supply Terminal. Tie this pin to GND when using the device with single-supply voltages.
5	GND	Ground (0 V) Reference.
6	S4	Source Terminal of Switch 4. Can be an input or output.
7	D4	Drain Terminal of Switch 4. Can be an input or output.
8	IN4	Switch 4 Digital Control Input.
9	IN3	Switch 3 Digital Control Input.
10	D3	Drain Terminal of Switch 3. Can be an input or output.
11	S3	Source Terminal of Switch 3. Can be an input or output.
12	NC	Not Internally Connected.
13	V _{DD}	Most Positive Power Supply Terminal.
14	S2	Source Terminal of Switch 2. Can be an input or output.
15	D2	Drain Terminal of Switch 2. Can be an input or output.
16	IN2	Switch 2 Digital Control Input.

Table 6. ADG611/ADG612 Truth Table

ADG611 Input	ADG612 Input	Switch Condition
0	1	On
1	0	Off

Table 7. ADG613 Truth Table

Logic	Switch 1, Switch 4	Switch 2, Switch 3
0	Off	On
1	On	Off

TYPICAL PERFORMANCE CHARACTERISTICS

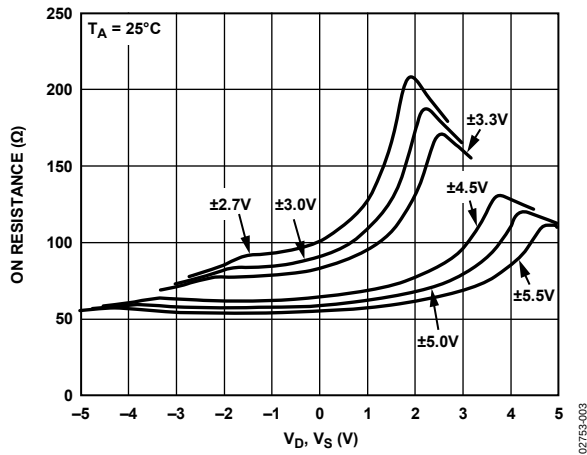


Figure 3. On Resistance vs. V_D (V_S), Dual Supplies

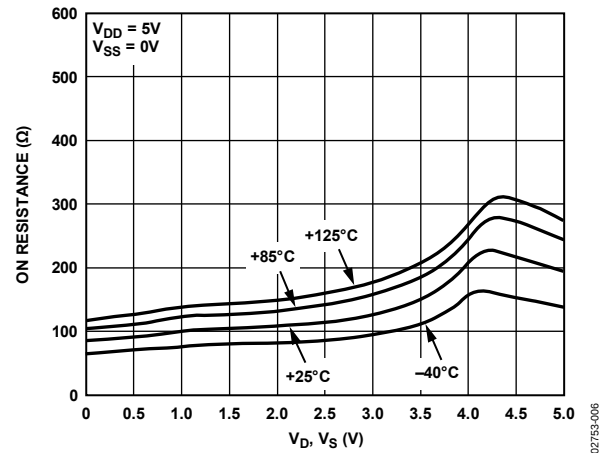


Figure 6. On Resistance vs. V_D (V_S) for Various Temperatures, Single Supply

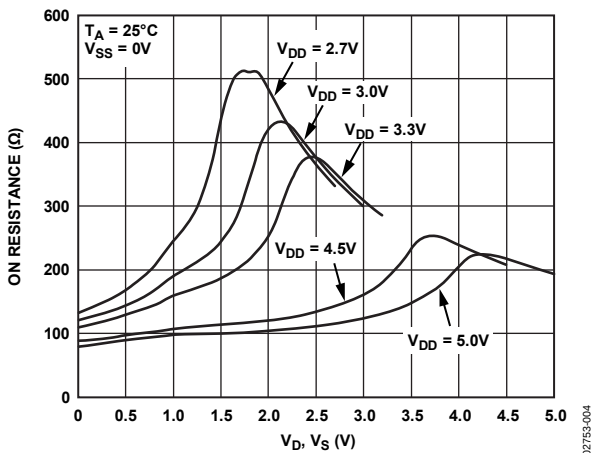


Figure 4. On Resistance vs. V_D (V_S), Single Supply

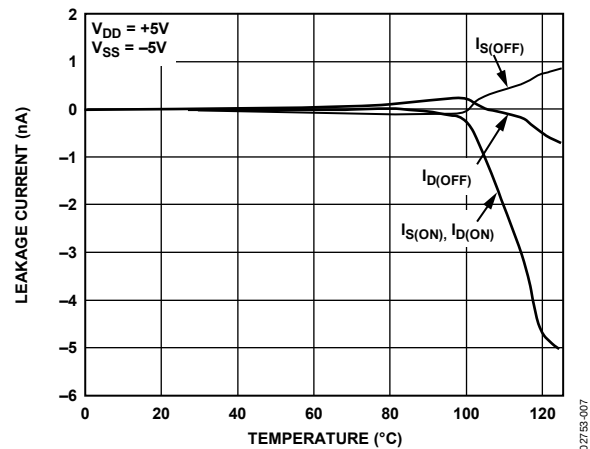


Figure 7. Leakage Current vs. Temperature, Dual Supplies

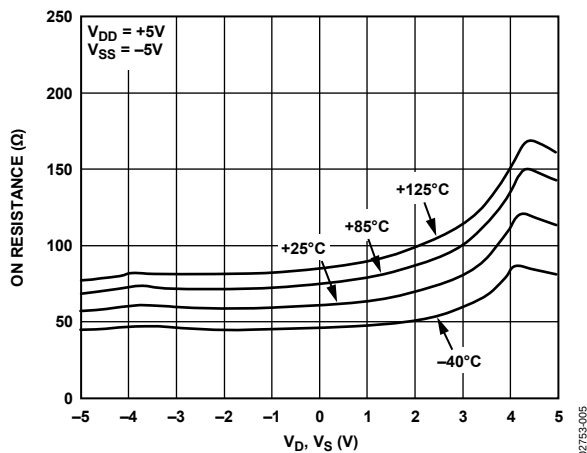


Figure 5. On Resistance vs. V_D (V_S) for Various Temperatures, Dual Supplies

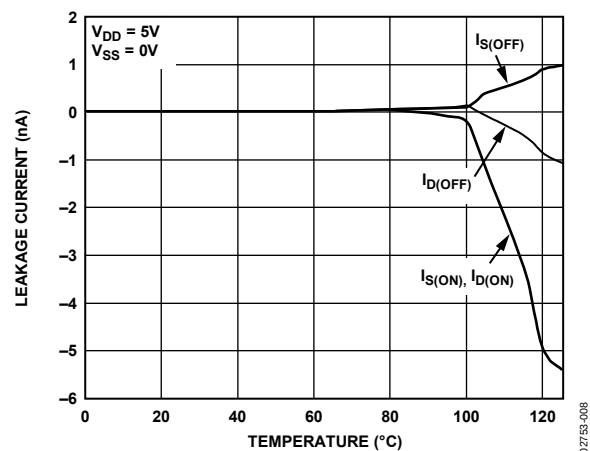


Figure 8. Leakage Current vs. Temperature, Single Supply

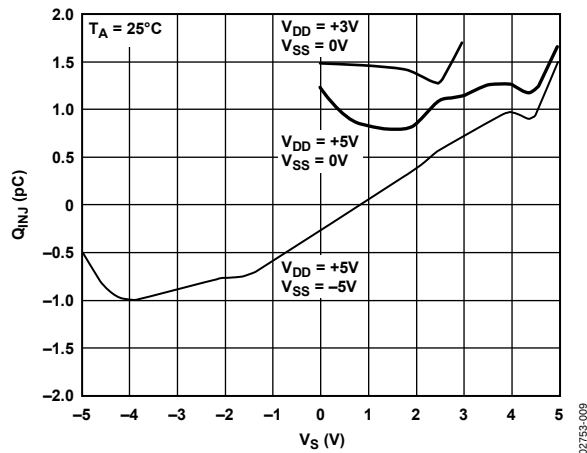


Figure 9. Charge Injection vs. Source Voltage

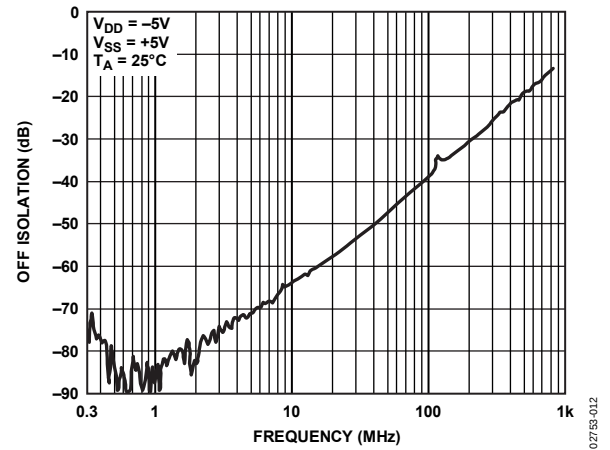


Figure 12. Off Isolation vs. Frequency

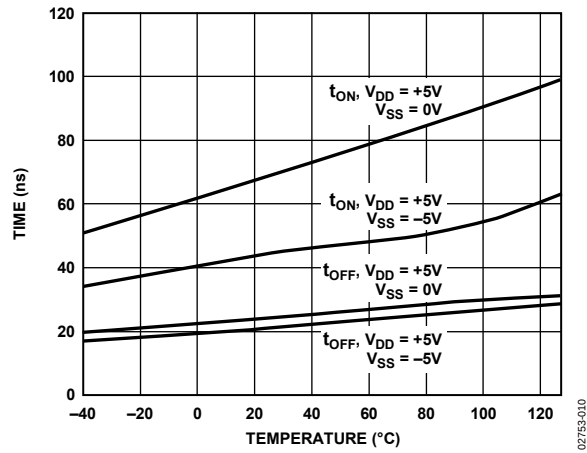


Figure 10. t_{ON}/t_{OFF} Times vs. Temperature

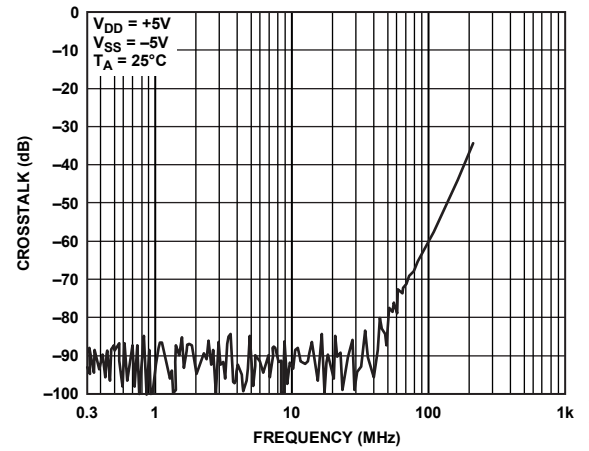


Figure 13. Crosstalk vs. Frequency

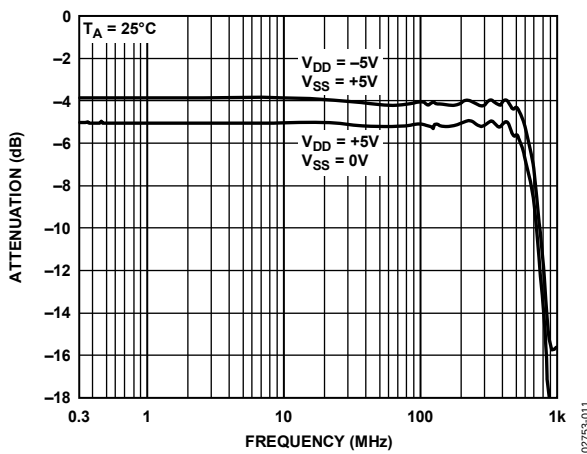


Figure 11. On Response vs. Frequency

TERMINOLOGY

V_{DD}

Most positive power supply potential.

V_{SS}

Most negative power supply potential.

I_{DD}

Positive supply current.

I_{SS}

Negative supply current.

GND

Ground (0 V) reference.

S

Source terminal. Can be an input or output.

D

Drain terminal. Can be an input or output.

IN

Logic control input.

V_D (V_S)

Analog voltage on Terminal D and Terminal S.

R_{ON}

Ohmic resistance between Terminal D and Terminal S.

ΔR_{ON}

On-resistance match between any two channels, that is,
 $R_{ONMAX} - R_{ONMIN}$.

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.

I_{S(OFF)}

Source leakage current with the switch off.

I_{D(OFF)}

Drain leakage current with the switch off.

I_{D(ON)}, I_{S(ON)}

Channel leakage current with the switch on.

V_{INL}

Maximum input voltage for Logic 0.

V_{INH}

Minimum input voltage for Logic 1.

I_{INL}, I_{INH}

Input current of the digital input.

C_{S(OFF)}

Off switch source capacitance. Measured with reference to ground.

C_{D(OFF)}

Off switch drain capacitance. Measured with reference to ground.

C_{D(ON)}, C_{S(ON)}

On switch capacitance. Measured with reference to ground.

C_{IN}

Digital input capacitance.

t_{ON}

Delay between applying the digital control input and the output switching on (see Figure 17).

t_{OFF}

Delay between applying the digital control input and the output switching off (see Figure 17).

Charge Injection

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

Off Isolation

A measure of unwanted signal coupling through an off switch.

Crosstalk

A measure of unwanted signal that is coupled through from one channel to another as a result of parasitic capacitance.

On Response

Frequency response of the on switch.

Insertion Loss

Loss due to the on resistance of the switch.

TEST CIRCUITS

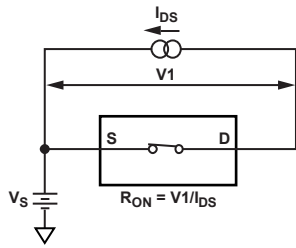


Figure 14. On Resistance

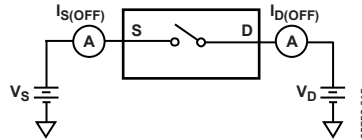


Figure 15. Off Leakage

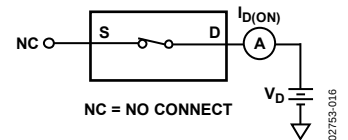


Figure 16. On Leakage

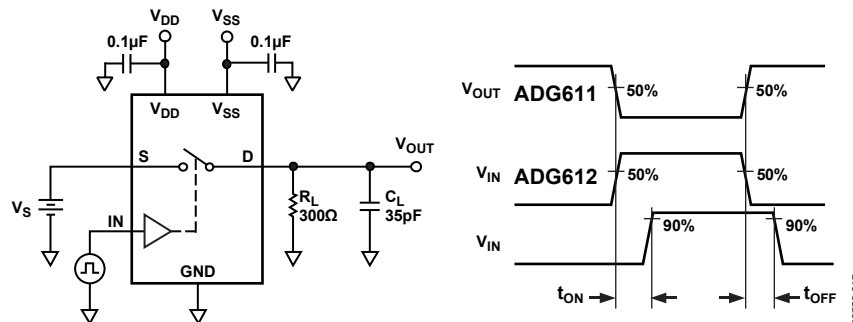


Figure 17. Switching Times

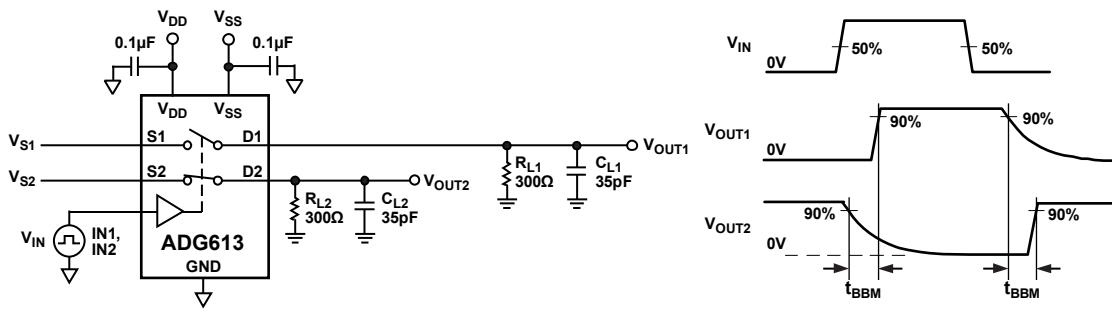


Figure 18. Break-Before-Make Time Delay

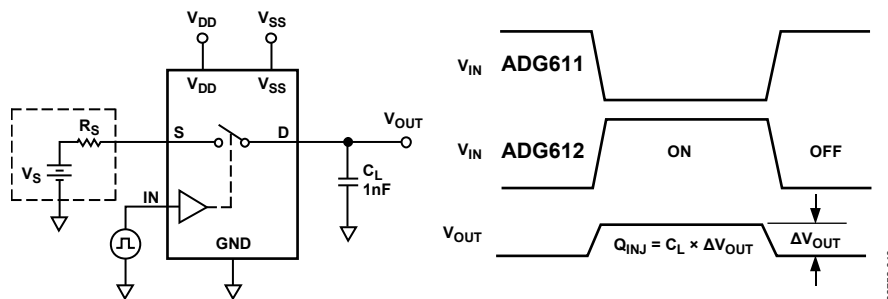


Figure 19. Charge Injection

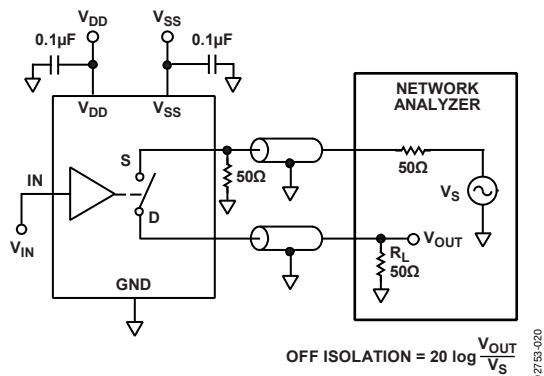


Figure 20. Off Isolation

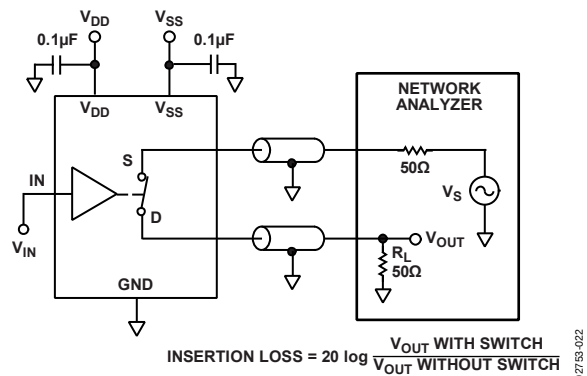


Figure 22. Bandwidth

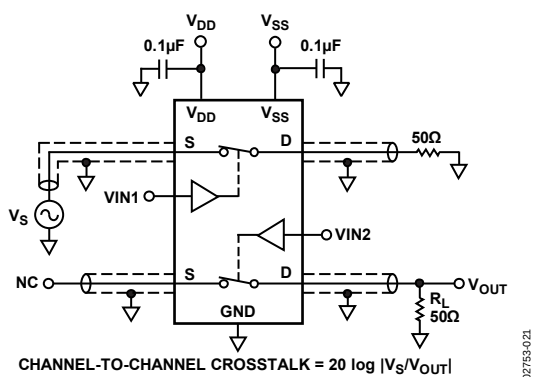


Figure 21. Channel-to-Channel Crosstalk

The circuit diagram illustrates a 4-bit digital-to-analog converter (DAC) using two operational amplifiers (op-amps) configured as buffers and a resistor network.

Op-Amp Buffers:

- The first op-amp (left) has its non-inverting input (+) connected to a 2.5V reference and its inverting input (-) connected to a feedback capacitor C1 and resistor R1 (33kΩ). Its output is connected to the non-inverting input of the second op-amp.
- The second op-amp (right) has its inverting input (-) connected to ground and its non-inverting input (+) connected to the output of the first op-amp. Its output is V_{OUT}.

Resistor Network:

- A resistor R2 (510kΩ) connects the output of the second op-amp to a node that branches into two paths: one to the non-inverting input of the first op-amp and another to a resistor divider.
- The resistor divider consists of R3 (510kΩ) connected to ground and R4 (240kΩ) connected to the 5V supply.
- Four switches (S1, S2, S3, S4) are connected to the 5V supply and the output of the second op-amp. Each switch is controlled by a digital input (IN1, IN2, IN3, IN4) through inverters (D1, D2, D3, D4).
- The outputs of the switches are connected to a resistor network consisting of R5 (240kΩ), R6 (120kΩ), R7 (120kΩ), R8 (120kΩ), R9 (120kΩ), and R9 (120kΩ) connected to ground.

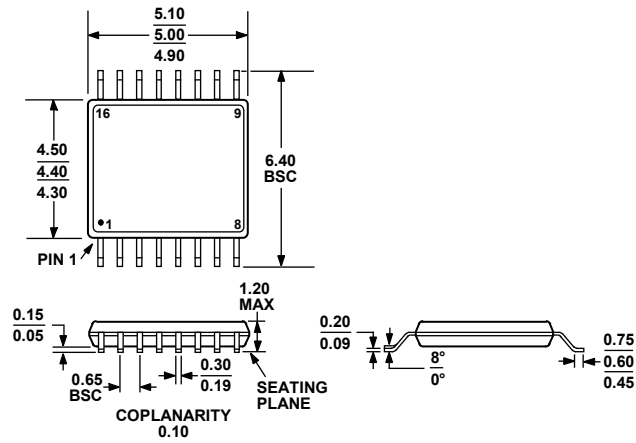
Inputs and Outputs:

- The digital inputs are labeled (LSB) IN1, IN2, IN3, and (MSB) IN4.
- The analog output is V_{OUT}.

Gain Range: 2 TO 16

Figure 23. Photodetector Circuit with Programmable Gain

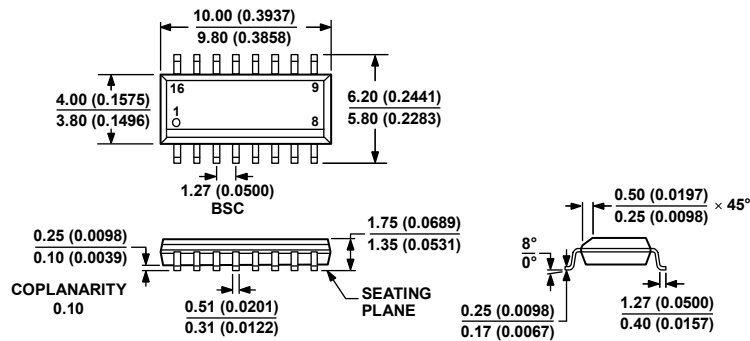
OUTLINE DIMENSIONS



COMPLIANT TO JEDEC STANDARDS MO-153-AB

Figure 24. 16-Lead Thin Shrink Small Outline Package [TSSOP]
(RU-16)

Dimensions shown in millimeters



COMPLIANT TO JEDEC STANDARDS MS-012-AC

CONTROLLING DIMENSIONS ARE IN MILLIMETERS; INCH DIMENSIONS
(IN PARENTHESES) ARE ROUNDED-OFF MILLIMETER EQUIVALENTS FOR
REFERENCE ONLY AND ARE NOT APPROPRIATE FOR USE IN DESIGN.

Figure 25. 16-Lead Standard Small Outline Package [SOIC_N]
Narrow Body
(R-16)

Dimensions shown in millimeters and (inches)

ORDERING GUIDE

Model	Temperature Range	Package Description	Package Option
ADG611YRUZ ¹	−40°C to +125°C	16-Lead Thin Shrink Small Outline Package [TSSOP]	RU-16
ADG611YRUZ-REEL ¹	−40°C to +125°C	16-Lead Thin Shrink Small Outline Package [TSSOP]	RU-16
ADG611YRUZ-REEL7 ¹	−40°C to +125°C	16-Lead Thin Shrink Small Outline Package [TSSOP]	RU-16
ADG611YRZ ¹	−40°C to +125°C	16-Lead Standard Small Outline Package [SOIC_N]	R-16
ADG612YRUZ ¹	−40°C to +125°C	16-Lead Thin Shrink Small Outline Package [TSSOP]	RU-16
ADG612YRUZ-REEL ¹	−40°C to +125°C	16-Lead Thin Shrink Small Outline Package [TSSOP]	RU-16
ADG612YRUZ-REEL7 ¹	−40°C to +125°C	16-Lead Thin Shrink Small Outline Package [TSSOP]	RU-16
ADG612WRUZ-REEL ¹	−40°C to +125°C	16-Lead Thin Shrink Small Outline Package [TSSOP]	RU-16
ADG613YRUZ ¹	−40°C to +125°C	16-Lead Thin Shrink Small Outline Package [TSSOP]	RU-16
ADG613YRUZ-REEL ¹	−40°C to +125°C	16-Lead Thin Shrink Small Outline Package [TSSOP]	RU-16
ADG613YRUZ-REEL7 ¹	−40°C to +125°C	16-Lead Thin Shrink Small Outline Package [TSSOP]	RU-16

¹ Z = RoHS Compliant Part.

NOTES

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