ANALOG DEVICES

2.5 Ω , 1.8 V to 5.5 V, ±2.5 V Triple SPDT Switches in Chip Scale Packages

ADG786

FEATURES

1.8 V to 5.5 V Single Supply ±2.5 V Dual Supply
2.5 Ω On Resistance
0.5 Ω On Resistance Flatness
100 pA Leakage Currents
19 ns Switching Times
Triple SPDT: ADG786
Quad SPDT: ADG788
20-Lead 4 mm × 4 mm Chip Scale Packages
Low Power Consumption
TTL/CMOS-Compatible Inputs
For Functionally-Equivalent Devices in 16-Lead TSSOP Packages, See ADG733/ADG734
Qualified for automotive applications

FUNCTIONAL BLOCK DIAGRAMS



SWITCHES SHOWN FOR A LOGIC "1" INPUT

APPLICATIONS Data Acquisition Systems

Communication Systems Relay Replacement Audio and Video Switching Battery-Powered Systems

GENERAL DESCRIPTION

The ADG786 and ADG788 are low voltage, CMOS devices comprising three independently selectable SPDT (single pole, double throw) switches and four independently selectable SPDT switches respectively.

Low power consumption and operating supply range of 1.8 V to 5.5 V and dual ± 2.5 V make the ADG786 and ADG788 ideal for battery powered, portable instruments and many other applications. All channels exhibit break-before-make switching action preventing momentary shorting when switching channels. An $\overline{\rm EN}$ input on the ADG786 is used to enable or disable the device. When disabled, all channels are switched OFF.

These multiplexers are designed on an enhanced submicron process that provides low power dissipation yet gives high switching speed, very low on resistance, high signal bandwidths and low leakage currents. On resistance is in the region of a few ohms, is closely matched between switches and very flat over the full signal range. These parts can operate equally well in either direction and have an input signal range which extends to the supplies.

The ADG786 and ADG788 are available in small 20-lead chip scale packages.

PRODUCT HIGHLIGHTS

- 1. Small 20-Lead 4 mm \times 4 mm Chip Scale Packages (CSP).
- 2. Single/Dual Supply Operation. The ADG786 and ADG788 are fully specified and guaranteed with 3 V \pm 10% and 5 V \pm 10% single supply rails, and ± 2.5 V \pm 10% dual supply rails.
- 3. Low On Resistance (2.5 Ω typical).
- 4. Low Power Consumption (<0.01 μ W).
- 5. Guaranteed Break-Before-Make Switching Action.

Rev. C

Document Feedback

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ADG786-SPECIFICATIONS¹

	B Version			
	0.500	-40°C	TT •/	
Parameter	+25°C	to +85°C	Unit	Test Conditions/Comments
ANALOG SWITCH				
Analog Signal Range		0 V to V _{DD}	V	
On Resistance (R _{ON})	2.5	5.0	Ω typ	$V_{\rm S} = 0$ V to $V_{\rm DD}$, $I_{\rm DS} = 10$ mA;
On-Resistance Match between	4.5	5.0 0.1	Ω max Ω typ	Test Circuit 1 $V_S = 0 V$ to V_{DD} , $I_{DS} = 10 mA$
Channels (ΔR_{ON})		0.4	$\Omega \max$	$v_{\rm S} = 0$ v to v _{DD} , $i_{\rm DS} = 10$ mA
On-Resistance Flatness ($R_{FLAT(ON)}$)	0.5	0.1	Ω typ	$V_{S} = 0 V$ to V_{DD} , $I_{DS} = 10 mA$
		1.2	Ω max	
LEAKAGE CURRENTS				V _{DD} = 5.5 V
Source OFF Leakage I _S (OFF)	±0.01		nA typ	$V_{\rm D} = 4.5 \text{ V/1 V}, V_{\rm S} = 1 \text{ V/4.5 V};$
	±0.1	± 0.3	nA max	Test Circuit 2
Channel ON Leakage I _D , I _S (ON)	±0.01		nA typ	$V_{\rm D} = V_{\rm S} = 1$ V, or 4.5 V;
	±0.1	± 0.5	nA max	Test Circuit 3
DIGITAL INPUTS				
Input High Voltage, V _{INH}		2.4	V min	
Input Low Voltage, V _{INL}		0.8	V max	
Input Current	0.005			V V en V
I _{INL} or I _{INH}	0.005	± 0.1	μΑ typ μΑ max	$V_{IN} = V_{INL}$ or V_{INH}
C _{IN} , Digital Input Capacitance	4	±0.1	pF typ	
DYNAMIC CHARACTERISTICS ²	-		P ² ·JP	
t _{on}	19		ns typ	$R_{L} = 300 \Omega, C_{L} = 35 pF;$
ton	15	34	ns typ	$V_{S1A} = 3 \text{ V}, V_{S1B} = 0 \text{ V}, \text{ Test Circuit 4}$
t _{OFF}	7		ns typ	$R_L = 300 \Omega, C_L = 35 pF;$
		12	ns max	$V_{\rm S} = 3$ V, Test Circuit 4
ADG786 $t_{ON}(\overline{EN})$	20		ns typ	$R_L = 300 \ \Omega, \ C_L = 35 \ pF;$
	_	40	ns max	$V_{\rm S} = 3$ V, Test Circuit 5
$t_{OFF}(\overline{EN})$	7	10	ns typ	$R_L = 300 \Omega, C_L = 35 pF;$
Break-Before-Make Time Delay, t _D	13	12	ns max	$V_S = 3 V$, Test Circuit 5 $R_L = 300 \Omega$, $C_L = 35 pF$;
Dieak-Deioie-Make Time Delay, ID	15	1	ns typ ns min	$V_{\rm S} = 3 \text{ V}, \text{ Test Circuit 6}$
Charge Injection	± 3	1	pC typ	$V_{\rm S} = 3$ V, rest circuit o $V_{\rm S} = 2$ V, $R_{\rm S} = 0$ Ω , $C_{\rm L} = 1$ nF;
enarge injection			P C C P	Test Circuit 7
Off Isolation	-80		dB typ	$R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$;
				Test Circuit 8
Channel-to-Channel Crosstalk	-80		dB typ	$R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$;
2 JD Day day dah	100			Test Circuit 9
–3 dB Bandwidth C _S (OFF)	160 11		MHz typ pF typ	$R_L = 50 \Omega$, $C_L = 5 pF$, Test Circuit 10 f = 1 MHz
$C_{\rm S}$ (OFF) $C_{\rm D}$, $C_{\rm S}$ (ON)	34		pF typ pF typ	f = 1 MHz
			Pr 9P	
POWER REQUIREMENTS	0.001		uA tres	V _{DD} = 5.5 V Digital Inputs = 0 V or 5.5 V
I _{DD}	0.001	1.0	μA typ μA max	Digital Illpuis = 0 v of 5.5 v
		1.0	µл шал	

NOTES ¹Temperature range is as follows: B Version: -40°C to +85°C. ²Guaranteed by design, not subject to production test.

Specifications subject to change without notice.

SPECIFICATIONS¹ ($V_{DD} = 3 \underline{V \pm 10\%}, V_{SS} = 0 V, GND = 0 V, unless otherwise noted.)$

	B Version -40°C				
Parameter	+25°C	to +85°C	Unit	Test Conditions/Comments	
ANALOG SWITCH					
Analog Signal Range		0 V to V_{DD}	V		
On Resistance (R _{ON})	6		Ω typ	$V_{\rm S} = 0$ V to $V_{\rm DD}$, $I_{\rm DS} = 10$ mA;	
	11	12	Ω max	Test Circuit 1	
On-Resistance Match between		0.1	Ω typ	$V_{\rm S} = 0$ V to $V_{\rm DD}$, $I_{\rm DS} = 10$ mA	
Channels (ΔR_{ON})		0.5	Ω max		
On-Resistance Flatness (R _{FLAT(ON)})		3	Ω typ	$V_{\rm S}$ = 0 V to $V_{\rm DD}$, $I_{\rm DS}$ = 10 mA	
LEAKAGE CURRENTS				$V_{DD} = 3.3 V$	
Source OFF Leakage I _S (OFF)	± 0.01		nA typ	$V_{\rm S} = 3 \text{ V}/1 \text{ V}, V_{\rm D} = 1 \text{ V}/3 \text{ V};$	
-	± 0.1	± 0.3	nA max	Test Circuit 2	
Channel ON Leakage I _D , I _S (ON)	± 0.01		nA typ	$V_{\rm S} = V_{\rm D} = 1 \text{ V or } 3 \text{ V};$	
-	±0.1	± 0.5	nA max	Test Circuit 3	
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		
C _{IN} , Digital Input Capacitance	4		pF typ		
DYNAMIC CHARACTERISTICS ²					
t _{ON}	28		ns typ	$R_L = 300 \Omega, C_L = 35 pF;$	
		55	ns max	$V_{S1A} = 2 V, V_{S1B} = 0 V,$ Test Circuit 4	
t _{OFF}	9		ns typ	$R_L = 300 \Omega$, $C_L = 35 pF$;	
		16	ns max	$V_{\rm S} = 2$ V, Test Circuit 4	
ADG786 $t_{ON}(\overline{EN})$	29		ns typ	$R_L = 300 \ \Omega, \ C_L = 35 \ pF;$	
		60	ns max	$V_S = 2 V$, Test Circuit 5	
$t_{OFF}(\overline{EN})$	9		ns typ	$R_{L} = 300 \ \Omega, \ C_{L} = 35 \ pF;$	
		16	ns max	$V_S = 2 V$, Test Circuit 5	
Break-Before-Make Time Delay, t _D	22		ns typ	$R_L = 300 \ \Omega, \ C_L = 35 \ pF;$	
		1	ns min	$V_S = 2 V$, Test Circuit 6	
Charge Injection	± 3		pC typ	$V_{\rm S} = 1 \text{ V}, R_{\rm S} = 0 \Omega, C_{\rm L} = 1 n\text{F};$	
Off Inclusion				Test Circuit 7	
Off Isolation	-80		dB typ	$R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$; Test Circuit 8	
Channel-to-Channel Crosstalk	-80		dB typ	$R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$;	
Chamier to Chamier Crosstark	00		up typ	Test Circuit 9	
–3 dB Bandwidth	160		MHz typ	$R_L = 50 \Omega$, $C_L = 5 pF$, Test Circuit 10	
C _s (OFF)	11		pF typ	f = 1 MHz	
$C_{\rm D}, C_{\rm S}$ (ON)	34		pF typ	f = 1 MHz	
POWER REQUIREMENTS				$V_{DD} = 3.3 \text{ V}$	
I _{DD}	0.001		μA typ	Digital Inputs = $0 \text{ V or } 3.3 \text{ V}$	
		1.0	µA max		

NOTES ¹Temperature ranges are as follows: B Version: -40°C to +85°C. ²Guaranteed by design, not subject to production test.

Specifications subject to change without notice.

ADG786-SPECIFICATIONS¹

DUAL SUPPLY (V_{DD} = +2.5 V ± 10%, V_{SS} = -2.5 V ± 10%, GND = 0 V, unless otherwise noted.)

	B V	ersion		
Parameter	+25°C	-40°C to +85°C	Unit	Test Conditions/Comments
ANALOG SWITCH				
Analog Signal Range		V _{SS} to V _{DD}	V	
On Resistance (R _{ON})	2.5	. 33	Ω typ	$V_{S} = V_{SS}$ to V_{DD} , $I_{DS} = 10$ mA;
	4.5	5.0	Ω max	Test Circuit 1
On-Resistance Match between		0.1	Ωtyp	$V_{\rm S} = V_{\rm SS}$ to $V_{\rm DD}$, $I_{\rm DS} = 10$ mA
Channels (ΔR_{ON})		0.4	Ω max	.3 .3304 .04
On-Resistance Flatness (R _{FLAT(ON)})	0.5		Ω typ	$V_{S} = V_{SS}$ to V_{DD} , $I_{DS} = 10$ mA
		1.2	$\Omega \max$. 3 . 33
LEAKAGE CURRENTS				$V_{DD} = +2.75 \text{ V}, V_{SS} = -2.75 \text{ V}$
Source OFF Leakage I _S (OFF)	±0.01		nA typ	$V_{\rm S} = +2.25 \text{ V/}-1.25 \text{ V}, V_{\rm D} = -1.25 \text{ V/}+2.25 \text{ V}$
200100 011 20011g0 13 (011)	± 0.1	± 0.3	nA max	Test Circuit 2
Channel ON Leakage I _D , I _S (ON)	± 0.01		nA typ	$V_{\rm S} = V_{\rm D} = +2.25$ V/-1.25 V, Test Circuit 3
enamer er 200 auge 10, 13 (er i)	± 0.1	± 0.5	nA max	
DIGITAL INPUTS				
Input High Voltage, V _{INH}		1.7	V min	
Input Low Voltage, V _{INL}		0.7	V max	
Input Current		0.17	V IIIuxi	
I _{INL} or I _{INH}	0.005		μA typ	$V_{IN} = V_{INL}$ or V_{INH}
	0.000	±0.1	μ A max	
C _{IN} , Digital Input Capacitance	4	_0.1	pF typ	
DYNAMIC CHARACTERISTICS ²				
t _{ON}	21		ns typ	$R_L = 300 \Omega, C_L = 35 pF;$
-011		35	ns max	$V_{S1A} = 1.5 \text{ V}, V_{S1B} = 0 \text{ V}, \text{ Test Circuit 4}$
t _{OFF}	10		ns typ	$R_L = 300 \Omega, C_L = 35 \text{ pF};$
-011		16	ns max	$V_{\rm S} = 1.5$ V, Test Circuit 4
ADG786 $t_{ON}(\overline{EN})$	21		ns typ	$R_L = 300 \Omega, C_L = 35 pF;$
		40	ns max	$V_{\rm S} = 1.5$ V, Test Circuit 5
$t_{OFF}(\overline{EN})$	10		ns typ	$R_L = 300 \Omega, C_L = 35 pF;$
-011()		16	ns max	$V_{\rm S} = 1.5$ V, Test Circuit 5
Break-Before-Make Time Delay, t _D	13	-	ns typ	$R_L = 300 \Omega, C_L = 35 pF;$
у, _у , _у	-	1	ns min	$V_{\rm S} = 1.5$ V, Test Circuit 6
Charge Injection	± 5		pC typ	$V_{S} = 0 V, R_{S} = 0 \Omega, C_{L} = 1 nF;$
0 3			1 51	Test Circuit 7
Off Isolation	-80		dB typ	$R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$;
			51	Test Circuit 8
Channel-to-Channel Crosstalk	-80		dB typ	$R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$;
			51	Test Circuit 9
-3 dB Bandwidth	160		MHz typ	$R_L = 50 \Omega$, $C_L = 5 pF$, Test Circuit 10
C _S (OFF)	11		pF typ	f = 1 MHz
C_D, C_S (ON)	34		pF typ	f = 1 MHz
POWER REQUIREMENTS				$V_{DD} = +2.75 \text{ V}$
I _{DD}	0.001		μA typ	Digital Inputs = 0 V or 2.75 V
		1.0	µA max	
I _{SS}	0.001		μA typ	$V_{SS} = -2.75 V$
		1.0	$\mu A \max$	Digital Inputs = 0 V or 2.75 V

NOTES

¹Temperature range is as follows: B Version: -40 °C to +85 °C. ²Guaranteed by design, not subject to production test.

Specifications subject to change without notice.

ABSOLUTE MAXIMUM RATINGS¹

$(T_A = 25^{\circ}C \text{ unless otherwise noted})$
V_{DD} to V_{SS}
V_{DD} to GND
V_{SS} to GND
Analog Inputs ² $V_{SS} - 0.3$ V to $V_{DD} + 0.3$ V or
30 mA, Whichever Occurs First
Digital Inputs ² -0.3 V to V _{DD} + 0.3 V or
30 mA, Whichever Occurs First
Peak Current, S or D 100 mA
(Pulsed at 1 ms, 10% Duty Cycle max)
Continuous Current, S or D 30 mA
Operating Temperature Range
Industrial (A, B Versions)40°C to +85°C

Storage Temperature Range65°C to +150°C
Junction Temperature 150°C
20 Lead CSP, θ_{JA} Thermal Impedance
Lead Temperature, Soldering (10 sec) 300°C
IR Reflow, Peak Temperature 220°C
NOTES

¹Stresses 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 listed in the operational sections of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability. Only one absolute maximum rating may be applied at any one time.

maximum rating may be applied at any one time. ²Overvoltages at A, EN, IN, S, or D will be clamped by internal diodes. Current should be limited to the maximum ratings given.

CAUTION

ESD (electrostatic discharge) sensitive device. Electrostatic charges as high as 4000 V readily accumulate on the human body and test equipment and can discharge without detection. Although the ADG786/ADG788 features proprietary ESD protection circuitry, permanent damage may occur on devices subjected to high-energy electrostatic discharges. Therefore, proper ESD precautions are recommended to avoid performance degradation or loss of functionality.



PIN CONFIGURATIONS



Table I. ADG786 Truth Table

A2	A1	A0	ĒN	ON Switch
X	Х	X	1	None
0	0	0	0	D1-S1A, D2-S2A, D3-S3A
0	0	1	0	D1-S1B, D2-S2A, D3-S3A
0	1	0	0	D1-S1A, D2-S2B, D3-S3A
0	1	1	0	D1-S1B, D2-S2B, D3-S3A
1	0	0	0	D1-S1A, D2-S2A, D3-S3B
1	0	1	0	D1-S1B, D2-S2A, D3-S3B
1	1	0	0	D1-S1A, D2-S2B, D3-S3B
1	1	1	0	D1-S1B, D2-S2B, D3-S3B

Table II. ADG788 Truth Table

Logic	Switch A	Switch B
0	OFF	ON
1	ON	OFF

TERMINOLOGY

V _{SS} M gr I _{DD} Pc I _{SS} No	Tost Positive Power Supply Potential Tost Negative Power Supply in a Dual Supply Application. In single supply applications, this should be tied to round close to the device. ositive Supply Current Tegative Supply Current
I _{DD} Pc I _{SS} No	round close to the device. ositive Supply Current legative Supply Current
I _{SS} No	legative Supply Current
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
GND GI	round (0 V) Reference
S So	ource Terminal. May be an input or output
D Di	Prain Terminal. May be an input or output
IN Lo	ogic Control Input
V _D (V _S) A	nalog Voltage on Terminals D, S
R _{ON} Ol	hmic Resistance between D and S
ΔR_{ON} Or	n Resistance Match between Any Two Channels, i.e., R _{ON} max – R _{ON} min.
R _{FLAT(ON)} Fl	latness is defined as the difference between the maximum and minimum value of on-resistance as measured ver the specified analog signal range.
I _S (OFF) So	ource Leakage Current with the Switch "OFF"
I _D , I _S (ON) Cl	hannel Leakage Current with the Switch "ON"
V _{INL} M	faximum Input Voltage for Logic "0"
V _{INH} M	finimum Input Voltage for Logic "1"
I _{INL} (I _{INH}) In	nput Current of the Digital Input
C _S (OFF) "C	OFF" Switch Source Capacitance. Measured with reference to ground.
$C_D, C_S(ON)$ "C	ON" Switch Capacitance. Measured with reference to ground.
C _{IN} Di	Digital Input Capacitance
t _{ON} De	belay time measured between the 50% and 90% points of the digital inputs and the switch "ON" condition.
-	belay time measured between the 50% and 90% points of the digital input and the switch "OFF" condition.
	belay time between the 50% and 90% points of the $\overline{ ext{EN}}$ digital input and the switch "ON" condition.
	belay time between the 50% and 90% points of the $\overline{ ext{EN}}$ digital input and the switch "OFF" condition.
t _{OPEN} "C	OFF" time measured between the 80% points of both switches when switching from one address state to another.
Charge A	measure of the glitch impulse transferred Injection from the digital input to the analog output during switching.
Off Isolation A	measure of unwanted signal coupling through an "OFF" switch.
	measure of unwanted signal that is coupled through from one channel to another as a result of parasitic apacitance.
On Response Tl	he Frequency Response of the "ON" Switch
Insertion Loss Tl	he Loss Due to the ON Resistance of the Switch.

Typical Performance Characteristics- ADG786



TPC 1. On Resistance as a Function of $V_D(V_S)$ for Single Supply



TPC 2. On Resistance as a Function of $V_D(V_S)$ for Dual Supply



TPC 4. On Resistance as a Function of $V_D(V_S)$ for Different Temperatures, Single Supply



TPC 5. On Resistance as a Function of $V_D(V_S)$ for Different Temperatures, Dual Supply



TPC 3. On Resistance as a Function of $V_D(V_S)$ for Different Temperatures, Single Supply



TPC 6. Leakage Currents as a Function of $V_D(V_S)$



TPC 7. Leakage Currents as a Function of $V_D(V_S)$



TPC 8. Leakage Currents as a Function of $V_D(V_S)$



TPC 9. Leakage Currents as a Function of Temperature



TPC 10. Leakage Currents as a Function of Temperature



TPC 11. t_{ON}/t_{OFF} Times vs. Temperature



TPC 12. On Response vs. Frequency



TPC 13. Input Current, I_{DD} vs. Switching Frequency







TPC 15. Crosstalk vs. Frequency



TPC 16. Charge Injection vs. Source Voltage

Test Circuits







Test Circuit 5. Enable Delay, t_{ON} (\overline{EN}), t_{OFF} (\overline{EN})



Test Circuit 6. Break-Before-Make Delay, t_{OPEN}



Test Circuit 7. Charge Injection



Test Circuit 8. OFF Isolation



Test Circuit 9. Channel-to-Channel Crosstalk



Test Circuit 10. Bandwidth

Power Supply Sequencing

When using CMOS devices, care must be taken to ensure correct power supply sequencing. Incorrect sequencing can result in the device being subjected to stresses beyond those maximum ratings listed in the data sheet. Digital and analog inputs should be applied to the device after supplies and ground. In dual supply applications, if digital and analog inputs may be applied prior to V_{DD} and V_{SS} supplies, the addition of a Schottky diode connected between V_{SS} and GND will ensure that the device powers on correctly. For single supply applications, V_{SS} should be tied to GND as close to the device as possible.

OUTLINE DIMENSIONS



Figure 1. 20-Lead Lead Frame Chip Scale Package [LFCSP 4 mm × 4 mm Body and 0.75 mm Package Height (CP-20-6) Dimensions shown in millimeters

ORDERING GUIDE

Model ^{1, 2}	Temperature Range	Package Description	Package Option
ADG786BCPZ	-40°C to +85°C	20-Lead Lead Frame Chip Scale Package [LFCSP]	CP-20-6
ADG786BCPZ-REEL7	-40°C to +85°C	20-Lead Lead Frame Chip Scale Package [LFCSP]	CP-20-6
ADG786WBCPZ-REEL7	-40°C to +85°C	20-Lead Lead Frame Chip Scale Package [LFCSP]	CP-20-6
ADG788BCPZ	-40°C to +85°C	20-Lead Lead Frame Chip Scale Package [LFCSP]	CP-20-6
ADG788BCPZ-REEL	–40°C to +85°C	20-Lead Lead Frame Chip Scale Package [LFCSP]	CP-20-6
ADG788BCPZ-REEL7	-40°C to +85°C	20-Lead Lead Frame Chip Scale Package [LFCSP]	CP-20-6
EVAL-ADG788EBZ		Evaluation Board	

 1 Z = RoHS Compliant Part.

 2 W = Qualified for Automotive Applications.

AUTOMOTIVE PRODUCTS

The ADG786W models are available with controlled manufacturing to support the quality and reliability requirements of automotive applications. Note that these automotive models may have specifications that differ from the commercial models; therefore, designers should review the Specifications section of this data sheet carefully. Only the automotive grade products shown are available for use in automotive applications. Contact your local Analog Devices account representative for specific product ordering information and to obtain the specific Automotive Reliability reports for these models.

REVISION HISTORY

9/15-Rev. B to Rev. C

Change to Functional Block Diagrams1
Updated Outline Dimensions11
Changes to Ordering Guide11

10/13—Rev. A to Rev. B

Changed Off Isolation from -72 dB to -80 dB and Channel-to-
Channel Crosstalk from -67 dB to -80 dB (Throughout)2
Changes to TPC 14 and TPC 158

8/12—Rev. 0 to Rev. A	
Updated Outline Dimensions11	
Changes to Ordering Guide11	
Added Automotive Products Section	

7/01—Revision 0: Initial Version

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