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SPECIFICATIONS

 V_{DD} = 5 V \pm 10%, GND = 0 V. All specifications –40°C to +85°C, unless otherwise noted.

Table 1.

| | P | l, B Grade ¹ | | |
|--|------------|-------------------------------|---------|---|
| Parameter | +25°C | -40°C to +85°C | Unit | Test Conditions/Comments |
| ANALOG SWITCH | | | | |
| Analog Signal Range | | $0 \text{ to } V_{\text{DD}}$ | V | |
| On Resistance, R _{ON} | 2.5 | | Ωtyp | $V_S = 0 \text{ V to } V_{DD}, I_S = -10 \text{ mA}$ |
| | 4 | 5 | Ω max | See Figure 12 |
| On Resistance Match Between Channels, ΔR _{ON} | 0.3 | | Ω typ | $V_S = 0 \text{ V to } V_{DD}, I_S = -10 \text{ mA}$ |
| | | 1.0 | Ω max | |
| On Resistance Flatness, R _{FLAT(ON)} | 0.85 | | Ωtyp | $V_S = 0 \text{ V to } V_{DD}, I_S = -10 \text{ mA}$ |
| | | 1.5 | Ωmax | |
| LEAKAGE CURRENTS – A Grade | | | | $V_{DD} = 5.5 \text{ V}$ |
| Source off Leakage, Is (OFF) | ±0.01 | | nA typ | $V_S = 4.5 \text{ V/1 V}, V_D = 1 \text{ V/4.5 V}, \text{ see Figure 13}$ |
| Drain off Leakage, I _D (OFF) | ±0.01 | | nA typ | $V_S = 4.5 \text{ V/1 V}, V_D = 1 \text{ V/4.5 V}, \text{ see Figure 13}$ |
| Channel on Leakage, I _D , I _S (ON) | ±0.01 | | nA typ | $V_S = V_D = 1 \text{ V or } V_S = V_D = 4.5 \text{ V, see Figure } 14$ |
| LEAKAGE CURRENTS – B Grade | | | ,, | $V_{DD} = 5.5 \text{ V}$ |
| Source off Leakage, I _s (OFF) | ±0.01 | | nA typ | $V_S = 4.5 \text{ V/1 V, } V_D = 1 \text{ V/4.5 V}$ |
| 3,1, | ±0.25 | ±0.35 | nA max | Test Circuit 2 |
| Drain off Leakage, I _D (OFF) | ±0.01 | | nA typ | $V_S = 4.5 \text{ V/1 V}, V_D = 1 \text{ V/4.5 V}$ |
| - · · · · · · · · · · · · · · · · · · · | ±0.25 | ±0.35 | nA max | See Figure 13 |
| Channel on Leakage, ID, Is (ON) | ±0.01 | | nA typ | $V_S = V_D = 1 \text{ V or } V_S = V_D = 4.5 \text{ V}$ |
| , , , , , , , , , , , , , , , , , , , | ±0.25 | ±0.35 | nA max | See Figure 14 |
| DIGITAL INPUTS | | | | J |
| Input High Voltage, V _{INH} | | 2.4 | V min | |
| Input Low Voltage, V _{INL} | | 0.8 | V max | |
| Input Current | | | 1 11167 | |
| l _{INL} or l _{INH} | 0.005 | | μA typ | $V_{IN} = V_{INI}$ or V_{INH} |
| TINE OF TIME | 0.003 | ±0.1 | μA max | VIIV VIIVE OF VIIVE |
| DYNAMIC CHARACTERISTICS ² | | | p | |
| t _{ON} | 14 | | ns typ | $R_L = 300 \Omega, C_L = 35 pF$ |
| | | 20 | ns max | V _S = 3 V, see Figure 15 |
| t _{OFF} | 6 | | ns typ | $R_L = 300 \Omega$, $C_L = 35 pF$ |
| | | 10 | ns max | V _s = 3 V, see Figure 15 |
| Break-Before-Make Time Delay, t _D (ADG723 Only) | 7 | | ns typ | $R_L = 300 \Omega$, $C_L = 35 pF$ |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | 1 | ns min | $V_{S1} = V_{S2} = 3 \text{ V, see Figure 16}$ |
| Charge Injection | 2 | | pC typ | $V_S = 2 \text{ V}, R_S = 0 \Omega, C_L = 1 \text{ nF, see Figure 17}$ |
| Off Isolation | -60 | | dB typ | $R_L = 50 \Omega$, $C_L = 5 pF$, $f = 10 MHz$ |
| | -80 | | dB typ | $R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$, see Figure 18 |
| Channel-to-Channel Crosstalk | –77 | | dB typ | $R_L = 50 \Omega$, $C_L = 5 pF$, $f = 10 MHz$ |
| | -97 | | dB typ | $R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$, see Figure 19 |
| Bandwidth –3 dB | 200 | | MHz typ | $R_L = 50 \Omega$, $C_L = 5 pF$, see Figure 20 |
| Cs (OFF) | 7 | | pF typ | |
| C_D (OFF) | 7 | | pF typ | |
| C _D , C _S (ON) | 18 | | pF typ | |
| POWER REQUIREMENTS | 1. | | ۳۰ ۰۶۲ | $V_{DD} = 5.5 \text{ V}$ |
| . OTTER NEQUINEIVED | | | | |
| I _{DD} | 0.001 | | μA typ | Digital inputs = 0 V or 5 V |

 $^{^1}$ Temperature range: A, B grades, -40°C to $+85^\circ\text{C}$. All specifications apply to both grades unless otherwise stated. 2 Guaranteed by design; not subject to production test.

ADG721/ADG722/ADG723

 V_{DD} = 3 V ± 10%, GND = 0 V. All specifications –40°C to +85°C, unless otherwise noted.

Table 2.

| | Α | A, B Grades ¹ | | | |
|--|------------|-------------------------------|--------------|---|--|
| Parameter | +25°C | -40°C to +85°C | Unit | Test Conditions/Comments | |
| ANALOG SWITCH | | | | | |
| Analog Signal Range | | $0 \text{ to } V_{\text{DD}}$ | V | | |
| On Resistance, R _{ON} | 6.5 | | Ω typ | $V_S = 0 \text{ V to } V_{DD}, I_S = -10 \text{ mA}$ | |
| | | 10 | Ω max | See Figure 12 | |
| On Resistance Match Between Channels, ΔR_{ON} | 0.3 | | Ω typ | $V_S = 0 \text{ V to } V_{DD}, I_S = -10 \text{ mA}$ | |
| | | 1.0 | Ω max | | |
| On Resistance Flatness, R _{FLAT(ON)} | 3.5 | | Ω typ | $V_S = 0 \text{ V to } V_{DD}, I_S = -10 \text{ mA}$ | |
| LEAKAGE CURRENTS – A Grade | | | | $V_{DD} = 3.3 \text{ V}$ | |
| Source off Leakage, I _s (OFF) | ±0.01 | | nA typ | $V_S = 3 \text{ V}/1 \text{ V}, V_D = 1 \text{ V}/3 \text{ V}, \text{ see Figure 13}$ | |
| Drain off Leakage, I _D (OFF) | ±0.01 | | nA typ | $V_S = 3 \text{ V}/1 \text{ V}, V_D = 1 \text{ V}/3 \text{ V}, \text{ see Figure 13}$ | |
| Channel on Leakage, ID, IS (ON) | ±0.01 | | nA typ | $V_S = V_D = 1 \text{ V or } 3 \text{ V, Figure } 14$ | |
| LEAKAGE CURRENTS – B Grade | | | | $V_{DD} = 3.3 \text{ V}$ | |
| Source off Leakage, Is (OFF) | ±0.01 | | nA typ | $V_S = 3 \text{ V}/1 \text{ V}, V_D = 1 \text{ V}/3 \text{ V}$ | |
| - | ±0.25 | ±0.35 | nA max | See Figure 13 | |
| Drain off Leakage, I _D (OFF) | ±0.01 | | nA typ | $V_S = 3 \text{ V}/1 \text{ V}, V_D = 1 \text{ V}/3 \text{ V}$ | |
| | ±0.25 | ±0.35 | nA max | See Figure 13 | |
| Channel on Leakage, ID, IS (ON) | ±0.01 | | nA typ | $V_S = V_D = 1 \text{ V or } 3 \text{ V}$ | |
| - | ±0.25 | ±0.35 | nA max | See Figure 14 | |
| DIGITAL INPUTS | | | | | |
| Input High Voltage, V _{INH} | | 2.0 | V min | | |
| Input Low Voltage, V _{INL} | | 0.4 | V max | | |
| Input Current | | | | | |
| I _{INL} or I _{INH} | 0.005 | | μA typ | $V_{IN} = V_{INL}$ or V_{INH} | |
| | | ±0.1 | μA max | | |
| DYNAMIC CHARACTERISTICS ² | | | · | | |
| ton | 16 | | ns typ | $R_L = 300 \Omega$, $C_L = 35 pF$ | |
| | | 24 | ns max | $V_S = 2 \text{ V}$, see Figure 15 | |
| toff | 7 | | ns typ | $R_L = 300 \Omega, C_L = 35 pF$ | |
| | | 11 | ns max | $V_S = 2 \text{ V}$, see Figure 15 | |
| Break-Before-Make Time Delay, t _D (ADG723 Only) | 7 | | ns typ | $R_L = 300 \Omega, C_L = 35 pF$ | |
| , | | 1 | ns min | $V_{S1} = V_{S2} = 2 \text{ V}$, see Figure 16 | |
| Charge Injection | 2 | | pC typ | $V_S = 1.5 \text{ V}$, $R_S = 0 \Omega$, $C_L = 1 \text{ nF}$, see Figure 17 | |
| Off Isolation | -60 | | dB typ | $R_L = 50 \Omega$, $C_L = 5 pF$, $f = 10 MHz$ | |
| | -80 | | dB typ | $R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$, see Figure 18 | |
| Channel-to-Channel Crosstalk | -77 | | dB typ | $R_L = 50 \Omega$, $C_L = 5 pF$, $f = 10 MHz$ | |
| | -97 | | dB typ | $R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$, see Figure 19 | |
| Bandwidth –3 dB | 200 | | MHz typ | $R_L = 50 \Omega$, $C_L = 5 pF$, see Figure 20 | |
| C _s (OFF) | 7 | | pF typ | , , , , , , , , , , , , , , , , , | |
| C _D (OFF) | 7 | | pF typ | | |
| C _D , C _s (ON) | 18 | | pF typ | | |
| POWER REQUIREMENTS | 1 | | 1-: -714 | $V_{DD} = 3.3 \text{ V}$ | |
| I _{DD} | 0.001 | | μA typ | Digital inputs = 0 V or 3 V | |
| -55 | | 1.0 | μA max | | |
| | | 1.0 | µA max | | |

 $^{^1}$ Temperature range: A, B Grades, -40°C to $+85^\circ\text{C}$. All specifications apply to both grades unless otherwise stated. 2 Guaranteed by design; not subject to production test.

ABSOLUTE MAXIMUM RATINGS

 $T_A = 25$ °C unless otherwise noted.

Table 3

| Table 3. | |
|--|---|
| Parameter | Rating |
| V _{DD} to GND | −0.3 V to +7 V |
| Analog, Digital Inputs ¹ | -0.3 V to V_{DD} + 0.3 V or 30 mA, whichever occurs first |
| Continuous Current, S or D | 30 mA |
| Operating Temperature Range | |
| Industrial (A, B Grade) | −40°C to +85°C |
| Storage Temperature Range | −65°C to +150°C |
| Junction Temperature | +150°C |
| 8-Lead MSOP | |
| θ_{JA} Thermal Impedance | 206°C/W |
| θ_{JC} Thermal Impedance | 44°C/W |
| 8-Lead LFCSP (4-Layer Board) | |
| θ _{JA} Thermal Impedance ¹ | 50.8°C/W |
| Lead Temperature, Soldering | |
| Vapor Phase (60 sec) | 215°C |
| Infrared (15 sec) | 220°C |
| Lead-Free Temperature, Soldering | |
| IR Reflow, Peak Temperature | 260°C (+0/-5°C) |
| Time at Peak Temperature | 10 sec to 40 sec |
| ESD | 2 kV |

¹Assumes exposed paddle is tied to ground.

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.

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 PIN DESCRIPTIONS

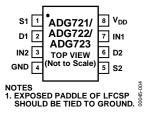


Figure 4. Pin Configuration

Table 4. Pin Function Descriptions

| Two to 11 in 1 uncertain Development | | | | | |
|--------------------------------------|----------|---|--|--|--|
| Pin No. | Mnemonic | Descriptions | | | |
| 1 | S1 | Source Pin 1. May be an input or an output. | | | |
| 2 | D1 | Drain Pin 1. May be an input or an output. | | | |
| 3 | IN2 | Logic Control Input for Switch S2→D2. | | | |
| 4 | GND | Ground (0 V) Reference. | | | |
| 5 | S2 | Source Pin 2. May be an input or an output. | | | |
| 6 | D2 | Drain Pin 2. May be an input or an output. | | | |
| 7 | IN1 | Logic Control Input for Switch S1→D1. | | | |
| 8 | V_{DD} | Positive Power Supply Input. | | | |

Table 5. Truth Table (ADG721/ADG722)

| ADG721 In | ADG722 In | Switch Condition |
|-----------|-----------|------------------|
| 0 | 1 | Off |
| 1 | 0 | On |

Table 6. Truth Table (ADG723)

| Logic | Switch 1 | Switch 2 |
|-------|----------|----------|
| 0 | Off | On |
| 1 | On | Off |

Data Sheet ADG721/ADG722/ADG723

TERMINOLOGY

 \mathbf{V}_{DD}

Most positive power supply potential.

GND

Ground (0 V) reference.

S

Source terminal. May be an input or output.

D

Drain terminal. May be an input or output.

IN

Logic control input.

 \mathbf{R}_{ON}

Ohmic resistance between D and S.

 ΔR_{ON}

On resistance match between any two channels, that is, $R_{\rm ON}$ max – $R_{\rm ON}$ min.

TON III AX TON I

 $R_{\text{FLAT(ON)}}$

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)

Source leakage current with the switch off.

I_D (OFF)

Drain leakage current with the switch off.

 I_D , I_S (ON)

Channel leakage current with the switch on.

 $V_D(V_s)$

Analog voltage on the D and S terminals.

Cs (OFF)

Off switch source capacitance.

C_D (OFF)

Off switch drain capacitance.

 C_D , C_S (ON)

On switch capacitance.

ton

Delay between applying the digital control input and the output switching on.

 t_{OFF}

Delay between applying the digital control input and the output switching off.

t_D

Off time or on time measured between the 90% points of both switches, when switching from one address state to another (ADG723 only).

Crosstalk

A measure of unwanted signal that is the result of parasitic capacitance.

Off Isolation

A measure of unwanted signal coupling through an off switch.

Charge Injection

A measure of the glitch impulse transferred during switching.

TYPICAL PERFORMANCE CHARACTERISTICS

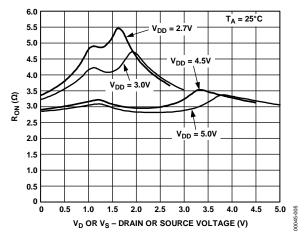


Figure 5. On Resistance as a Function of V_D (V_S), Single Supplies

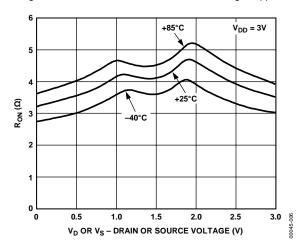


Figure 6. On Resistance as a Function of a V_D (V_S) for Different Temperatures, $V_{DD} = 3 \ V$

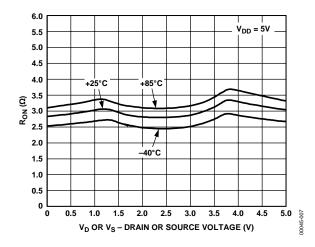


Figure 7. On Resistance as a Function of V_D (V_S) for Different Temperatures, $V_{DD} = 5~V$

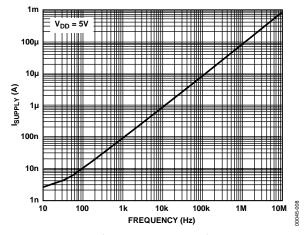


Figure 8. Supply Current vs. Input Switching Frequency

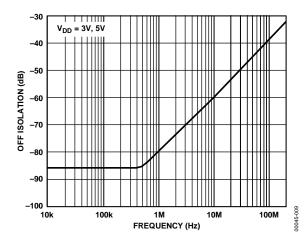


Figure 9. Off Isolation vs. Frequency

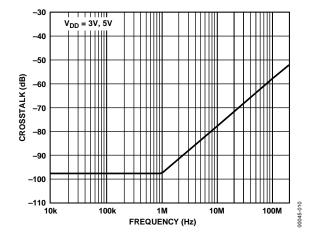


Figure 10. Crosstalk vs. Frequency

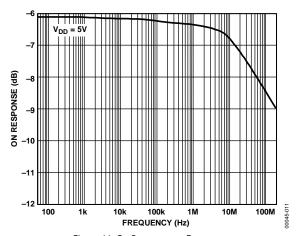
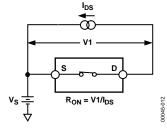
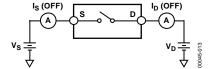


Figure 11. On Response vs. Frequency

TEST CIRCUITS





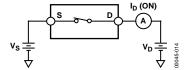


Figure 12. On Resistance

Figure 13. Off Leakage

Figure 14. On Leakage

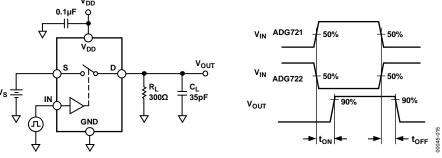


Figure 15. Switching Times

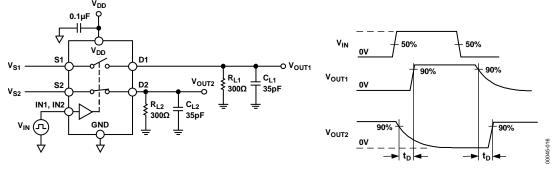


Figure 16. Break-Before-Make Time Delay, t_D (ADG723 Only)

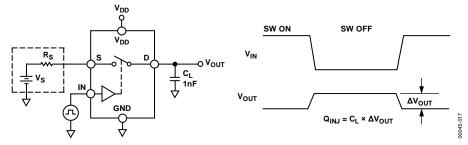


Figure 17. Charge Injection

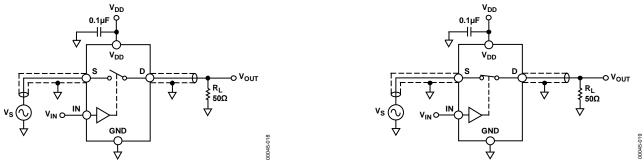
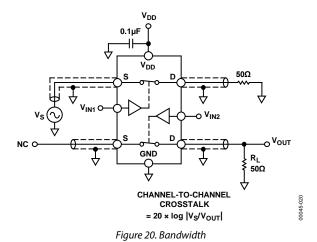


Figure 18. Off Isolation

Figure 19. Channel-to-Channel Crosstalk



APPLICATIONS

The ADG721/ADG722/ADG723 belong to a new family of Analog Devices CMOS switches. This series of general-purpose switches has improved switching times, lower on resistance, higher bandwidths, low power consumption, and low leakage currents.

ADG721/ADG722/ADG723 SUPPLY VOLTAGES

Functionality of the ADG721/ADG722/ADG723 extends from a 1.8 V to a 5.5 V single supply, which makes it ideal for battery-powered instruments, where important design parameters are power efficiency and performance.

It is important to note that the supply voltage affects the input signal range, the on resistance, and the switching times of the part. The typical performance characteristics and the specifications clearly show the effects of the power supplies.

For V_{DD} = 1.8 V, on resistance is typically 40 Ω over the temperature range.

ON RESPONSE VS. FREQUENCY

Figure 21 illustrates the parasitic components that affect the ac performance of CMOS switches (the switch is shown surrounded by a box). Additional external capacitances further degrade some aspects of performance. These capacitances affect feedthrough, crosstalk, and system bandwidth.

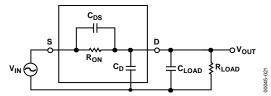


Figure 21. Switch Represented by Equivalent Parasitic Components

The transfer function that describes the equivalent diagram of the switch (Figure 21) is of the form (A)s, as shown in the following equation:

$$A(s) = R_{T} \left[\frac{s(R_{ON} C_{DS}) + 1}{s(R_{ON} C_{T} R_{T}) + 1} \right]$$

where:

$$C_T = C_{LOAD} + C_D + C_{DS}$$

$$R_T = R_{LOAD}/(R_{LOAD} + R_{ON})$$

The signal transfer characteristic is dependent on the switch channel capacitance, C_{DS} . This capacitance creates a frequency zero in the numerator of the transfer function A(s). Because the switch on resistance is small, this zero usually occurs at high frequencies. The bandwidth is a function of the switch output capacitance combined with C_{DS} and the load capacitance. The frequency pole corresponding to these capacitances appears in the denominator of A(s).

The dominant effect of the output capacitance, C_D , causes the pole breakpoint frequency to occur first. Therefore, in order to maximize bandwidth, a switch must have a low input and output capacitance and low on resistance (see Figure 11).

OFF ISOLATION

Off isolation is a measure of the input signal coupled through an off switch to the switch output. The capacitance, C_{DS}, couples the input signal to the output load, when the switch is off, as shown in Figure 22.

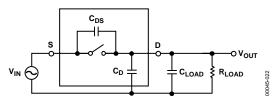


Figure 22. Off Isolation Is Affected by External Load Resistance and Capacitance

The larger the value of C_{DS} , the larger the value of feedthrough produced. Figure 9 illustrates the drop in off isolation as a function of frequency. From dc to roughly 1 MHz, the switch shows better than -80 dB isolation. Up to frequencies of 10 MHz, the off isolation remains better than -60 dB. As the frequency increases, more and more of the input signal is coupled through to the output. Off isolation can be maximized by choosing a switch with the smallest C_{DS} possible. The values of load resistance and capacitance also affect off isolation because they contribute to the coefficients of the poles and zeros in the transfer function of the switch when open.

$$A(s) = \left[\frac{s(R_{LOAD} C_{DS})}{s(R_{LOAD})(C_{LOAD} + C_D + C_{DS}) + 1}\right]$$

OUTLINE DIMENSIONS

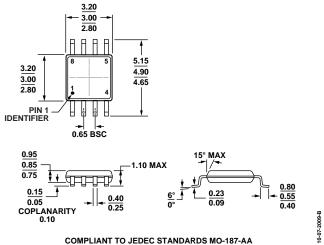


Figure 23. 8-Lead Mini Small Outline Package [MSOP] (RM-8)

Dimensions shown in millimeters

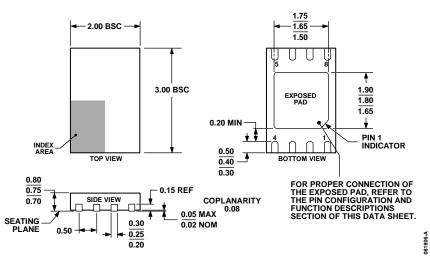


Figure 24. 8-Lead Lead Frame Chip Scale Package [LFCSP_WD] 3 mm × 2 mm Body, Very Very Thin, Dual Lead (CP-8-4) Dimensions shown in millimeters

ORDERING GUIDE

| Model ¹ | Temperature Range | Package Description | Package Option | Branding ² |
|--------------------|-------------------|---------------------|----------------|-----------------------|
| ADG721BRM | −40°C to +85°C | 8-Lead MSOP | RM-8 | S6B |
| ADG721BRM-REEL | -40°C to +85°C | 8-Lead MSOP | RM-8 | S6B |
| ADG721BRM-REEL7 | −40°C to +85°C | 8-Lead MSOP | RM-8 | S6B |
| ADG721BRMZ | -40°C to +85°C | 8-Lead MSOP | RM-8 | #S6B |
| ADG721BRMZ-REEL | −40°C to +85°C | 8-Lead MSOP | RM-8 | #S6B |
| ADG721BRMZ-REEL7 | -40°C to +85°C | 8-Lead MSOP | RM-8 | #S6B |
| ADG721ACPZ-REEL | −40°C to +85°C | 8-Lead LFCSP_WD | CP-8-4 | 17 |
| ADG721ACPZ-REEL7 | −40°C to +85°C | 8-Lead LFCSP_WD | CP-8-4 | 17 |
| ADG722BRM | −40°C to +85°C | 8-Lead MSOP | RM-8 | S7B |
| ADG722BRM-REEL7 | -40°C to +85°C | 8-Lead MSOP | RM-8 | S7B |
| ADG722BRMZ | -40°C to +85°C | 8-Lead MSOP | RM-8 | #S7B |
| ADG722BRMZ-REEL | -40°C to +85°C | 8-Lead MSOP | RM-8 | #S7B |
| ADG722BRMZ-REEL7 | −40°C to +85°C | 8-Lead MSOP | RM-8 | #S7B |
| ADG722ACPZ-REEL | −40°C to +85°C | 8-Lead LFCSP_WD | CP-8-4 | 0U |
| ADG722ACPZ-REEL7 | -40°C to +85°C | 8-Lead LFCSP_WD | CP-8-4 | 0U |
| ADG723BRM | −40°C to +85°C | 8-Lead MSOP | RM-8 | S8B |
| ADG723BRM-REEL | -40°C to +85°C | 8-Lead MSOP | RM-8 | S8B |
| ADG723BRM-REEL7 | -40°C to +85°C | 8-Lead MSOP | RM-8 | S8B |
| ADG723BRMZ | -40°C to +85°C | 8-Lead MSOP | RM-8 | #S8B |
| ADG723BRMZ-REEL | -40°C to +85°C | 8-Lead MSOP | RM-8 | #S8B |
| ADG723BRMZ-REEL7 | -40°C to +85°C | 8-Lead MSOP | RM-8 | #S8B |
| ADG723ACPZ-REEL | -40°C to +85°C | 8-Lead LFCSP_WD | CP-8-4 | S2N |
| ADG723ACPZ-REEL7 | −40°C to +85°C | 8-Lead LFCSP_WD | CP-8-4 | S2N |

 $^{^1}$ Z = RoHS Compliant Part; # denotes lead-free product may be top or bottom marked. 2 Branding = due to package size limitations, these three characters represent the part number.

Data Sheet

ADG721/ADG722/ADG723

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