

Low Cost Microprocessor Supervisory Circuits

Data Sheet ADM707

FEATURES

Guaranteed RESET valid with V_{cc} = 1 V 190 μA quiescent current Precision supply voltage monitor 4.65 V (ADM705/ADM707) 4.40 V (ADM706/ADM708)

200 ms reset pulse width

Debounced TTL/CMOS manual reset input (MR)
Independent watchdog timer (ADM705/ADM706)

1.60 sec timeout (ADM705/ADM706)

Active high reset output (ADM707/ADM708)

Voltage monitor for power fail or low battery warning Superior upgrade for MAX705 to MAX708

APPLICATIONS

Microprocessor systems
Computers
Controllers
Intelligent instruments
Critical microprocessor supply monitoring

GENERAL DESCRIPTION

The ADM705/ADM706/ADM707/ADM708 microprocessor supervisory circuits are suitable for monitoring 5 V power supplies/batteries and microprocessor activity.

The ADM705/ADM706 provide power-supply monitoring circuitry that generate a reset output during power-up, power-down, and brownout conditions. The reset output remains operational with $V_{\rm CC}$ as low as 1 V. Independent watchdog monitoring circuitry is also provided. This is activated if the watchdog input has not been toggled within 1.60 sec.

In addition, there is a 1.25 V threshold detector to warn of power failures, to detect low battery conditions, or to monitor an additional power supply. An active low, debounced manual reset input (\overline{MR}) is also included.

FUNCTIONAL BLOCK DIAGRAMS

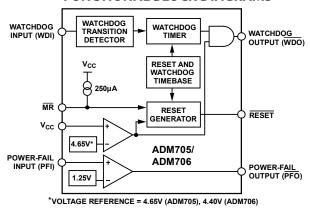


Figure 1. ADM705/ADM706

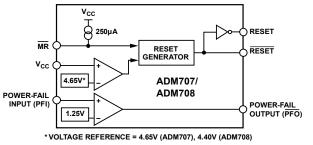


Figure 2. ADM707/ADM708

The ADM705 and ADM706 are identical except for the reset threshold monitor levels, which are 4.65 V and 4.40 V, respectively.

The ADM707 and ADM708 provide a similar functionality to the ADM705 and ADM706 and only differ in that a watchdog timer function is not available. Instead, an active high reset output (RESET) is available as well as the active low reset output (RESET). The ADM707 and ADM708 are identical except for the reset threshold monitor levels, which are 4.65 V and 4.40 V, respectively.

All devices are available in narrow 8-lead PDIP and 8-lead SOIC packages.

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1/10—Rev. 9 to Rev. 11 Changes to Table 3
Changes to Power Fail Comparator Section and Figure 15 8
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Updated Outline Dimensions
Changes to Ordering Guide
3/08—Rev. F to Rev. G
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Added RM-8 (MSOP) Package

SPECIFICATIONS

 V_{CC} = 4.75 V to 5.5 V, T_{A} = T_{MIN} to $T_{\text{MAX}}\text{, unless otherwise noted.}$

Table 1.

Parameter	Min	Тур	Max	Unit	Test Conditions/Comments
POWER SUPPLY					
Vcc Operating Voltage Range	1.0		5.5	V	
Supply Current		190	250	μΑ	
LOGIC OUTPUT					
Reset Threshold	4.5	4.65	4.75	V	ADM705/ADM707
	4.25	4.40	4.50	V	ADM706/ADM708
Reset Threshold Hysteresis		40		mV	
RESET PULSE WIDTH	160	200	280	ms	
RESET OUTPUT VOLTAGE	V _{CC} – 1.5			V	$I_{SOURCE} = 800 \mu A$
			0.4	V	$I_{SINK} = 3.2 \text{ mA}$
			0.3	V	$V_{CC} = 1 \text{ V, } I_{SINK} = 50 \mu\text{A}$
			0.3	V	$V_{CC} = 1.2 \text{ V, } I_{SINK} = 100 \mu\text{A}$
RESET OUTPUT VOLTAGE	V _{CC} – 1.5			V	ADM707/ADM708, I _{SOURCE} = 800 μA
			0.4	V	ADM707/ADM708, I _{SINK} = 1.2 mA
WATCHDOG TIMEOUT PERIOD (twd)	1.00	1.60	2.25	sec	$V_{IL} = 0.4 \text{ V}, V_{IH} = V_{CC} \times 0.8, \text{WDI} = V_{CC}$
WDI Pulse Width (twp)	50			ns	
WATCHDOG INPUT					
WDI Input Threshold					
Logic Low			0.8	V	
Logic High	3.5			V	
WDI Input Current		50	150	μΑ	WDI = 0 V
	-150	-50		μΑ	WDI = 0 V
WDO OUTPUT VOLTAGE	V _{CC} – 1.5			V	$I_{SOURCE} = 800 \mu A$
			0.4	٧	$I_{SINK} = 1.2 \text{ mA}$
MANUAL RESET INPUT					
MR Pull-Up Current	100	250	600	μΑ	$\overline{MR} = 0 \text{ V}$
MR Pulse Width	150			ns	
MR INPUT THRESHOLD					
Logic Low			0.8	V	
Logic High	2.0			V	
MR TO RESET OUTPUT DELAY			250	ns	
POWER FAIL INPUT					
PFI Input Threshold	1.2	1.25	1.3	V	
PFI Input Current	-25	+0.01	+25	nA	
PFO OUTPUT VOLTAGE	V _{CC} – 1.5			V	$I_{SOURCE} = 800 \mu A$
			0.4	V	I _{SINK} = 3.2 mA

ABSOLUTE MAXIMUM RATINGS

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

Table 2.

Parameter	Rating
V _{CC}	−0.3 V to +6 V
All Other Inputs	$-0.3 \text{ V to V}_{CC} + 0.3 \text{ V}$
Input Current	
Vcc	20 mA
GND	20 mA
Digital Output Current	20 mA
Power Dissipation, N-8 PDIP	727 mW
θ_{JA} Thermal Impedance	135°C/W
Power Dissipation, R-8 SOIC	470 mW
θ_{JA} Thermal Impedance	110°C/W
Power Dissipation, RM-8 MSOP	900 mW
θ_{JA} Thermal Impedance	206°C/W
Operating Temperature Range	
Industrial (Version A)	−40°C to +85°C
Lead Temperature (Soldering, 10 sec)	300°C
Vapor Phase (60 sec)	215°C
Infrared (15 sec)	220°C
Storage Temperature Range	−65°C to +150°C
ESD Rating	>4.5 kV

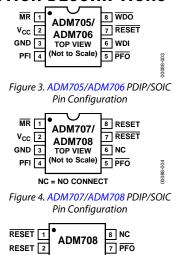
Stresses at or above those listed under Absolute Maximum Ratings may cause permanent damage to the product. This is a stress rating only; functional operation of the product at these or any other conditions above those indicated in the operational section of this specification is not implied. Operation beyond the maximum operating conditions for extended periods may affect product 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 CONFIGURATIONS AND FUNCTION DESCRIPTIONS



NC = NO CONNECT
Figure 5. ADM708 MSOP
Pin Configuration

TOP VIEW

(Not to Scale)

6 PFI

5 GND

MR 3

Table 3. Pin Function Descriptions

Pin Number				
Mnemonic	ADM705/ ADM706 (PDIP, SOIC)	ADM707/ ADM708 (PDIP, SOIC)	ADM708 (MSOP)	Description
MR	1	1	3	Manual Reset Input. When this pin is taken below 0.8 V, a reset is generated. MR can be driven from TTL, CMOS logic, or from a manual reset switch as it is internally debounced. An internal 250 μA pull-up current holds the input high when floating.
V_{CC}	2	2	4	$5V$ Power Supply Input. Place a 0.1 μF decoupling capacitor between the V_{CC} and GND pins.
GND	3	3	5	0 V Ground Reference for All Signals.
PFI	4	4	6	Power Fail Input. <u>PFI</u> is the noninverting input to the power fail comparator. When PFI is less than 1.25 V, PFO goes low. If unused, PFI must be connected to GND.
PFO	5	5	7	Power Fail Output. PFO is the output from the power fail comparator. It goes low when PFI is less than 1.25 V.
WDI	6	Not applicable	Not applicable	Watchdog Input. WDI is a three-level input. If WDI remains either high or low for longer than the watchdog timeout period, the watchdog output (WDO) goes low. The timer resets with each transition at the WDI input. Either a high to low or a low to high transition clears the counter. The internal timer is also cleared whenever reset is asserted. The watchdog timer is disabled when WDI is left floating or connected to a three-state buffer.
NC	Not applicable	6	8	No Connect.
RESET	7	7	1	Logic Output. $\overline{\text{RESET}}$ goes low for 200 ms when triggered. It can be triggered either by V_{CC} being below the reset threshold or by a low signal on the manual reset input ($\overline{\text{MR}}$). $\overline{\text{RESET}}$ remains low whenever V_{CC} is below the reset threshold (4.65 V in ADM705/ADM707, 4.40 V in ADM706/ADM708). It remains low for 200 ms after V_{CC} goes above the reset threshold or $\overline{\text{MR}}$ goes from low to high. A watchdog timeout does not trigger $\overline{\text{RESET}}$ unless $\overline{\text{WDO}}$ is connected to $\overline{\text{MR}}$.
WDO	8	Not applicable	Not applicable	Watchdog Output. WDO remains low until the watchdog timer is cleared. WDO also goes low during low line conditions. Whenever V _{CC} is below the reset threshold, WDO goes low if the internal WDO remains low. As soon as V _{CC} goes above the reset threshold, WDO goes high.
RESET	Not applicable	8	2	Logic Output. RESET is an active high output suitable for systems that use active high reset logic. It is the inverse of RESET.

TYPICAL PERFORMANCE CHARACTERISTICS

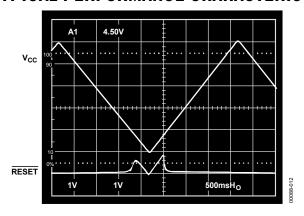


Figure 6. RESET Output Voltage vs. Supply Voltage

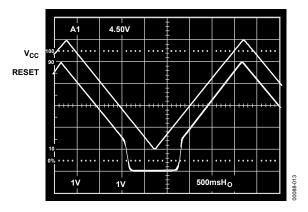


Figure 7. ADM707/ADM708 RESET Output Voltage vs. Supply Voltage

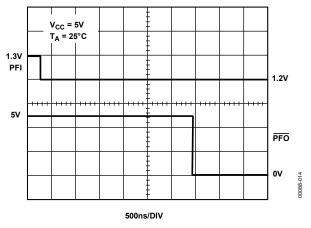


Figure 8. PFI Comparator Assertion Response Time

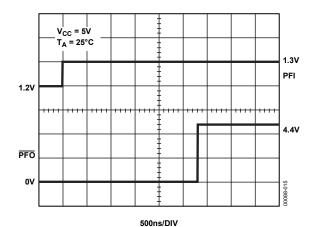


Figure 9. PFI Comparator Deassertion Response Time

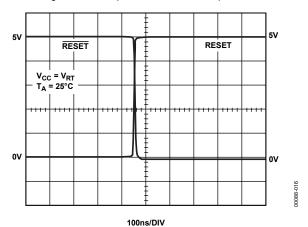


Figure 10. RESET, RESET Assertion

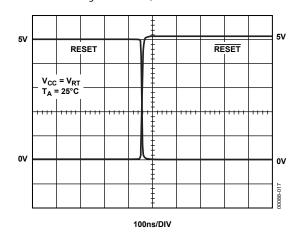


Figure 11. RESET, RESET Deassertion

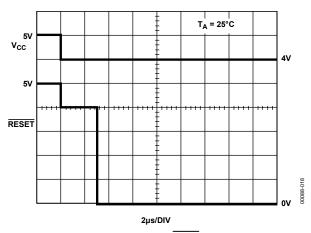


Figure 12. ADM705/ADM707 RESET Response Time

CIRCUIT INFORMATION POWER FAIL RESET OUTPUT

RESET is an active low output that provides a reset signal to the microprocessor whenever the V_{CC} input is below the reset threshold. An internal timer holds RESET low for 200 ms after the voltage on V_{CC} rises above the threshold. This functions as a power-on reset signal for the microprocessor. It allows time for both the power supply and the microprocessor to stabilize after power-up. The RESET output is guaranteed to remain valid (low) with V_{CC} as low as 1 V. This ensures that the microprocessor is held in a stable shutdown condition as the power supply voltage ramps up.

In addition to RESET, an active high RESET output is also available on the ADM707/ADM708. This is the complement of RESET and is useful for processors requiring an active high reset signal.

MANUAL RESET

The manual reset input (\overline{MR}) allows other reset sources, such as a manual reset switch, to generate a processor reset. The input is effectively debounced by the timeout period (200 ms typically). The \overline{MR} input is TTL-/CMOS-compatible, so it can also be driven by any logic reset output.

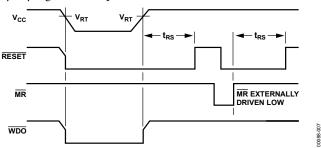


Figure 13. \overline{RESET} , \overline{MR} , and \overline{WDO} Timing

WATCHDOG TIMER (ADM705/ADM706)

The watchdog timer circuit can monitor the activity of the microprocessor to check that it is not stalled in an indefinite loop. An output line on the processor toggles the watchdog input (WDI) line. If this line is not toggled within the timeout period (1.60 sec), then the watchdog output (WDO) goes low. The WDO can be connected to a nonmaskable interrupt (NMI) on the processor; therefore, if the watchdog timer times out, an interrupt is generated. The interrupt service routine then rectifies the problem.

If a \overline{RESET} signal is required when a timeout occurs, the \overline{WDO} must connect to the manual reset input (\overline{MR}).

The watchdog timer is cleared by either a high to low or a low to high transition on WDI. It is also cleared by RESET going low; therefore, the watchdog timeout period begins after RESET goes high.

When V_{CC} falls below the reset threshold, \overline{WDO} is forced low, whether or not the watchdog timer has timed out. Normally, this generates an interrupt, but it is overridden by \overline{RESET} going low.

The watchdog monitor can be deactivated by floating the WDI. The \overline{WDO} can then be used as a low line output because it goes low only when V_{CC} falls below the reset threshold.

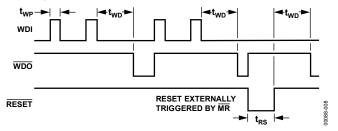
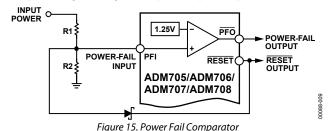


Figure 14. Watchdog Timing

POWER FAIL COMPARATOR

The power fail comparator is an independent comparator that can monitor the input power supply. The comparator inverting input is internally connected to a 1.25 V reference voltage. The noninverting input is available at the PFI input. This input can monitor the input power supply via a resistive divider network. When the voltage on the PFI input drops below 1.25 V, the comparator output ($\overline{\text{PFO}}$) goes low, indicating a power failure. For early warning of power failure, the comparator monitors the preregulator input by choosing an appropriate resistive divider network. The $\overline{\text{PFO}}$ output can interrupt the processor so a shutdown procedure is implemented before power is lost.

As the voltage on the PFI pin is limited to $V_{\rm CC}+0.3$ V, it is recommended to connect the PFI pin with a Schottky diode to the $\overline{\rm RESET}$ pin as shown in Figure 15. This helps clamping the PFI pin voltage during device power up and operation.



Adding Hysteresis to the Power Fail Comparator

For increased noise immunity, hysteresis can be added to the power fail comparator. Because the comparator circuit is noninverting, hysteresis can be added by connecting a resistor between the PFO output and the PFI input as shown in Figure 16.

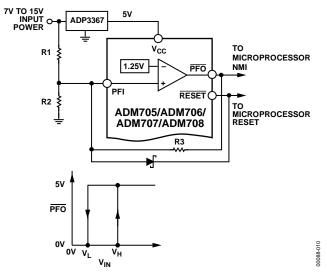


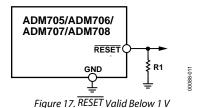
Figure 16. Adding Hysteresis to the Power Fail Comparator

When PFO is low, Resistor R3 sinks current from the summing junction at the PFI pin. When PFO is high, Resistor R3 sources current into the PFI summing junction. This results in differing trip levels for the comparator. Further noise immunity can be achieved by connecting a capacitor between PFI and GND. The equations calculate the hysteresis are as follows:

$$\begin{split} V_{H} &= 1.25 \Bigg[1 + \bigg(\frac{R2 + R3}{R2 \times R3} \bigg) R1 \bigg] \\ V_{L} &= 1.25 + RI \bigg(\frac{1.25}{R2} - \frac{V_{CC} - 1.25}{R3} \bigg) \\ V_{MID} &= 1.25 \bigg(\frac{R1 + R2}{R2} \bigg) \end{split}$$

VALID RESET BELOW 1 V Vcc

The ADM705/ADM706/ADM707/ADM708 are guaranteed to provide a valid reset level with $V_{\rm CC}$ as low as 1 V (see the Typical Performance Characteristics section). As $V_{\rm CC}$ drops below 1 V, the internal transistor does not have sufficient drive to hold the voltage $\overline{\rm RESET}$ at 0 V. A pull-down resistor can connect externally, as shown in Figure 17, to hold the line low if required.



APPLICATIONS INFORMATION

A typical application circuit is shown in Figure 18. The unregulated dc input supply is monitored using PFI via the resistive divider network. Resistor R1 and Resistor R2 must be selected so when the supply voltage drops below the desired level (such as 8 V), the voltage on PFI drops below the 1.25 V threshold, thereby generating an interrupt to the microprocessor. Monitoring the preregulator input provides additional time to execute an orderly shutdown procedure before power is lost.

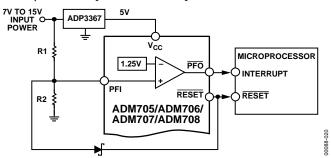


Figure 18. Typical Application Circuit

Microprocessor activity is monitored using WDI. This is driven using an output line from the processor. The software routines toggle this line at least once every 1.60 seconds. If a problem occurs and this line is not toggled, $\overline{\text{WDO}}$ goes low and a nonmaskable interrupt is generated. This interrupt routine can clear the problem.

If, in the event of inactivity on the WDI line, a system reset is required, \overline{WDO} must connect to \overline{MR} as shown in Figure 19.

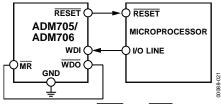


Figure 19. RESET From WDO

MONITORING ADDITIONAL SUPPLY LEVELS

It is possible to use the power fail comparator to monitor a second supply as shown in Figure 20. The two sensing resistors, R1 and R2, are selected so the voltage on PFI drops below 1.25 V at the minimum acceptable input supply. \overline{PFO} can connect to \overline{MR} so a reset is generated when the supply drops out of tolerance. In this case, if either supply drops out of tolerance, a reset is generated.

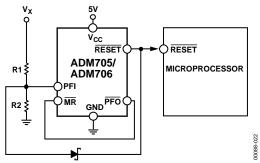


Figure 20. Monitoring 5 V and an Additional Supply, V_X

MICROPROCESSOR WITH BIDIRECTIONAL RESET

To prevent contention for microprocessors with a bidirectional reset line, a current limiting resistor must be inserted between the ADM705/ADM706/ADM707/ADM708 \overline{RESET} output pin and the microprocessor \overline{RESET} pin. This limits the current to a safe level if there are conflicting output reset levels. A suitable resistor value is 4.7 k Ω . If the reset output is required for other uses, it must be buffered, as shown in Figure 21.

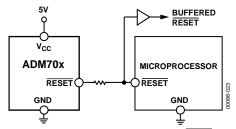
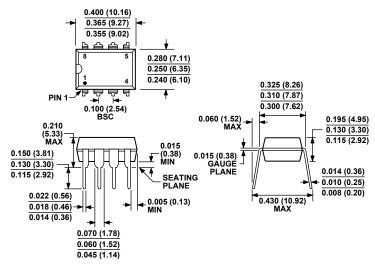


Figure 21. Bidirectional Input/Output RESET

OUTLINE DIMENSIONS

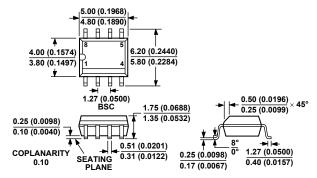


COMPLIANT TO JEDEC STANDARDS MS-001-BA

CONTROLLING DIMENSIONS ARE IN INCHES; MILLIMETER DIMENSIONS (IN PARENTHESES) ARE ROUNDED-OFF INCH EQUIVALENTS FOR REFERENCE ONLY AND ARE NOT APPROPRIATE FOR USE IN DESIGN. CORNER LEADS MAY BE CONFIGURED AS WHOLE OR HALF LEADS.

Figure 22. 8-Lead Plastic Dual-in-Line Package [PDIP] Narrow Body (N-8)

Dimensions shown in inches and (millimeters)



COMPLIANT TO JEDEC STANDARDS MS-012-AA

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 23. 8-Lead Standard Small Outline Package [SOIC_N] (R-8)

Dimensions shown in millimeters and (inches)

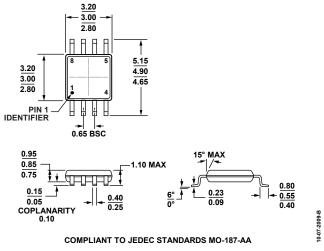


Figure 24. 8-Lead Mini Small Outline Package [MSOP] (RM-8) Dimensions shown in millimeters

ORDERING GUIDE

ADM705AN −40°C to +85°C 8-Lead Plastic Dual-in-Line Package [PDIP] N-8 ADM705ANZ −40°C to +85°C 8-Lead Plastic Dual-in-Line Package [PDIP] N-8 ADM705AR −40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM705AR-REEL −40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM705ARZ-REEL7 −40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM705ARZ-REEL1 −40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM705ARZ-REEL1 −40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM705ARZ-REEL7 −40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706ANZ −40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706AR −40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706AR, Letter −40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706ARZ-REEL −40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706ARZ-REEL −40°C	Model ¹	Temperature Range	Package Option	Branding	
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ADM705AR-REEL7 -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM705ARZ -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM705ARZ-REEL -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM705ARZ-REEL7 -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706ARZ -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706AR -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706AR-REEL -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706AR-REEL7 -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706ARZ-REEL7 -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706ARZ-REEL -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM707ARZ-REEL7 -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM707AR -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM707ARZ-REEL	ADM705AR	-40°C to +85°C	8-Lead Standard Small Outline Package [SOIC_N]	R-8	
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ADM705ARZ-REEL -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM705ARZ-REEL7 -40°C to +85°C 8-Lead Standard Small Outline Package [FDIP] N-8 ADM706ANZ -40°C to +85°C 8-Lead Plastic Dual-in-Line Package [FDIP] N-8 ADM706AR -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706AR-REEL -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706AR-REEL7 -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706ARZ -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706ARZ-REEL7 -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706ARZ-REEL7 -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM707ANZ -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM707AR - 40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM707ARZ-REEL -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708AR -40°C to +85°C	ADM705AR-REEL7	-40°C to +85°C	8-Lead Standard Small Outline Package [SOIC_N]	R-8	
ADM705ARZ-REEL7 —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706ANZ —40°C to +85°C 8-Lead Plastic Dual-in-Line Package [PDIP] N-8 ADM706AR —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706AR-REEL —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706AR-REEL7 —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706ARZ —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706ARZ-REEL —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706ARZ-REEL7 —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM707ANZ —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM707AR —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM707ARZ —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM707ARZ —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM707ARZ —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM707ARZ-REEL —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ANZ —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708AR —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ —40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ —40°C to +	ADM705ARZ	-40°C to +85°C	8-Lead Standard Small Outline Package [SOIC_N]	R-8	
ADM706ANZ -40°C to +85°C 8-Lead Plastic Dual-in-Line Package [PDIP] N-8 ADM706AR -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706AR-REEL -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706AR-REEL7 -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706ARZ -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706ARZ-REEL -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM706ARZ-REEL7 -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM707ANZ -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] N-8 ADM707AR - 40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM707ARZ - 40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM707ARZ-REEL -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ANZ -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708AR -40°C to +85°C 8-Lead Standard Small	ADM705ARZ-REEL	-40°C to +85°C	8-Lead Standard Small Outline Package [SOIC_N]	R-8	
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ADM706AR-REEL7	ADM706AR	-40°C to +85°C	8-Lead Standard Small Outline Package [SOIC_N]	R-8	
ADM706ARZ	ADM706AR-REEL	-40°C to +85°C	8-Lead Standard Small Outline Package [SOIC_N]	R-8	
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ADM707AR —40°C to +85°C —8-Lead Standard Small Outline Package [SOIC_N] —R-8 ADM707AR-REEL —40°C to +85°C —8-Lead Standard Small Outline Package [SOIC_N] —R-8 ADM707ARZ —40°C to +85°C —8-Lead Standard Small Outline Package [SOIC_N] —R-8 ADM707ARZ-REEL —40°C to +85°C —8-Lead Standard Small Outline Package [SOIC_N] —R-8 ADM708ANZ —40°C to +85°C —8-Lead Plastic Dual-in-Line Package [PDIP] —N-8 ADM708AR —40°C to +85°C —8-Lead Standard Small Outline Package [SOIC_N] —R-8 ADM708AR-REEL —40°C to +85°C —8-Lead Standard Small Outline Package [SOIC_N] —R-8 ADM708ARZ —40°C to +85°C —8-Lead Standard Small Outline Package [SOIC_N] —R-8 ADM708ARZ —40°C to +85°C —8-Lead Standard Small Outline Package [SOIC_N] —R-8 ADM708ARZ-REEL —40°C to +85°C —8-Lead Standard Small Outline Package [SOIC_N] —R-8 ADM708ARX —40°C to +85°C —8-Lead Standard Small Outline Package [MSOP] —R-8 ADM708ARMZ —40°C to +85°C —8-Lead Mini Small Outline Package [MSOP] —R-8	ADM706ARZ-REEL7	-40°C to +85°C	8-Lead Standard Small Outline Package [SOIC_N]	R-8	
ADM707AR-REEL -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM707ARZ -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM707ARZ-REEL -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ANZ -40°C to +85°C 8-Lead Plastic Dual-in-Line Package [PDIP] N-8 ADM708AR -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708AR-REEL -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARX -40°C to +85°C 8-Lead Standard Small Outline Package [MSOP] RM-8 M8F	ADM707ANZ	−40°C to +85°C	8-Lead Plastic Dual-in-Line Package [PDIP]	N-8	
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ADM708ANZ -40°C to +85°C 8-Lead Plastic Dual-in-Line Package [PDIP] N-8 ADM708AR -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708AR-REEL -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ-REEL -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARMZ -40°C to +85°C 8-Lead Mini Small Outline Package [MSOP] RM-8 M8F	ADM707ARZ	-40°C to +85°C	8-Lead Standard Small Outline Package [SOIC_N]	R-8	
ADM708AR -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708AR-REEL -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ-REEL -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARMZ -40°C to +85°C 8-Lead Mini Small Outline Package [MSOP] RM-8 M8F	ADM707ARZ-REEL	-40°C to +85°C	8-Lead Standard Small Outline Package [SOIC_N]	R-8	
ADM708AR-REEL -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ-REEL -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARMZ -40°C to +85°C 8-Lead Mini Small Outline Package [MSOP] RM-8 M8F	ADM708ANZ	−40°C to +85°C	8-Lead Plastic Dual-in-Line Package [PDIP]	N-8	
ADM708ARZ -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARZ-REEL -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARMZ -40°C to +85°C 8-Lead Mini Small Outline Package [MSOP] RM-8 M8F	ADM708AR	-40°C to +85°C	8-Lead Standard Small Outline Package [SOIC_N]	R-8	
ADM708ARZ-REEL -40°C to +85°C 8-Lead Standard Small Outline Package [SOIC_N] R-8 ADM708ARMZ -40°C to +85°C 8-Lead Mini Small Outline Package [MSOP] RM-8 M8F	ADM708AR-REEL	-40°C to +85°C	8-Lead Standard Small Outline Package [SOIC_N]	R-8	
ADM708ARMZ -40°C to +85°C 8-Lead Mini Small Outline Package [MSOP] RM-8 M8F	ADM708ARZ	-40°C to +85°C	8-Lead Standard Small Outline Package [SOIC_N]	R-8	
	ADM708ARZ-REEL	-40°C to +85°C	8-Lead Standard Small Outline Package [SOIC_N]	R-8	
ADM708ARMZ-REEL -40°C to +85°C 8-Lead Mini Small Outline Package [MSOP] RM-8 M8F	ADM708ARMZ	-40°C to +85°C	8-Lead Mini Small Outline Package [MSOP]	RM-8	M8F
	ADM708ARMZ-REEL	-40°C to +85°C	8-Lead Mini Small Outline Package [MSOP]	RM-8	M8F

 $^{^{1}}$ Z = RoHS Compliant Part.

