

CD74HCx4067-Q1 Automotive High-Speed CMOS Logic 16-Channel Analog **Mulitplexer and Demultiplexer**

1 Features

- Qualified for automotive applications
- AEC-Q100 test guidance with the following results:
 - Device temperature grade 1: –40°C to 125°C ambient operating temperature range
 - Device HBM ESD Classification Level H1A
 - Device CDM ESD Classification Level C2
- Wide analog input voltage range
- Low ON resistance
 - 70 Ω typical (V_{CC} = 4.5V)
- Fast switching and propagation speeds
- Break-before-make switching
 - 6ns typical ($V_{CC} = 4.5V$)
- Fanout (over temperature range)
 - Standard outputs: 10 LSTTL loads
 - Bus driver outputs: 15 LSTTL loads
- Balanced propagation delay and transition times
- Significant power reduction compared to LSTTL logic ICs
- 4.5V to 5.5V operation
- Direct LSTTL input logic compatibility: V_{IL} = 0.8V maximum, V_{IH} = 2V minimum
- CMOS input compatibility: I₁ ≤ 1µA at V_{OI} , V_{OH}

2 Applications

- **Automotive**
- Analog switch
- Analog multiplexer and demultiplexer

3 Description

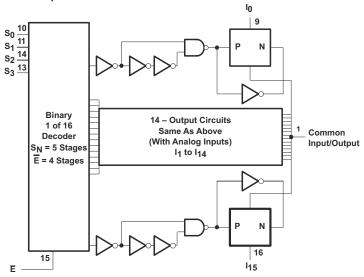
The CD74HCx4067-Q1 device is a digitally controlled analog switch that utilizes silicon-gate CMOS technology to achieve operating speeds similar to LSTTL, with the low power consumption of standard CMOS integrated circuits.

This analog multiplexer and demultiplexer controls analog voltages that may vary across the voltage supply range. It is a bidirectional switch, thus allowing any analog input to be used as an output and viceversa. The switch has low (on) resistance and low (off) leakages. In addition, the device has an enable control that, when high, disables all switches to their off state.

Package Information

PART NUMBER	PACKAGE ⁽¹⁾	PACKAGE SIZE ⁽²⁾
CD74HCx4067QM96Q1	DW (SOIC, 24)	15.5mm × 10.3mm
CD74HCx4067QRGYRQ 1	RGY (QFN, 24)	5.5mm × 3.5mm
CD74HCx4067QDGSRQ 1	DGS (VSSOP, 24)	6.1mm × 3mm
CD74HCx4067QPWRQ1	PW (TSSOP, 24)	4.4mm × 7.8mm

- (1) For more information, see Section 18.
- The package size (length × width) is a nominal value and includes pins, where applicable.



Logic Diagram (Positive Logic)



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4 Pin Configuration and Functions

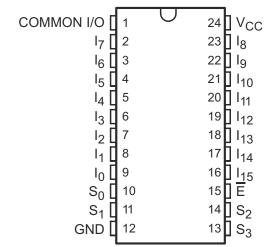


Figure 4-1. DW Package, 24-Pin SOIC (Top View)

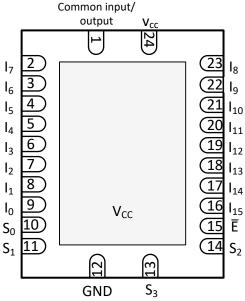


Figure 4-2. RGY Package, 24-Pin QFN (Top View) (Pad on Bottom)

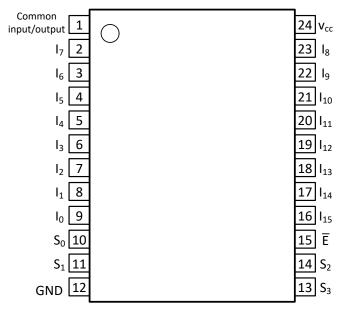


Figure 4-3. PW Package, 24-Pin TSSOP (Top View)

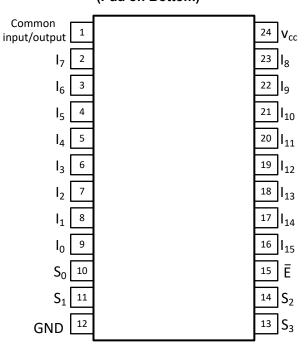


Figure 4-4. DGS Package, 24-Pin VSSOP (Top View)



PI	N	TYPE ⁽¹⁾	DECORPORTION
NAME	NO.	ITPE	DESCRIPTION
COMMON INPUT/ OUTPUT	1	Ю	Common input or output.
I ₇	2	10	Switch input/output
I ₆	3	IO	Switch input/output
I ₅	4	Ю	Switch input/output
I ₄	5	Ю	Switch input/output
I ₃	6	10	Switch input/output
I ₂	7	10	Switch input/output
I ₁	8	10	Switch input/output
I ₀	9	10	Switch input/output
S ₀	10	I	Select/Address pin
S ₁	11	I	Select/Address pin
GND	12	Р	Ground pin
S ₃	13	I	Select/Address pin
S ₂	14	ı	Select/Address pin
Ē	15	I	Enable for all switches ON/OFF
I ₁₅	16	10	Switch input/output
I ₁₄	17	10	Switch input/output
I ₁₃	18	10	Switch input/output
I ₁₂	19	10	Switch input/output
I ₁₁	20	10	Switch input/output
I ₁₀	21	10	Switch input/output
l ₉	22	Ю	Switch input/output
I ₈	23	10	Switch input/output
V _{CC}	24	Р	Power pin
Thermal Pad -		-	The thermal pad is not electrically connected and can be floated, grounded or tied to V _{CC}

(1) I = input, O = output. P = power

5 Absolute Maximum Ratings

over operating free-air temperature range (unless otherwise noted)(1) (2)

			MIN	MAX	UNIT
V _{CC} HC	DC Supply voltage	20.0		7	V
V _{CC} HCT	DC Supply voltage		-0.5	7	V
I _{IK}	DC input diode current	For $V_1 < -0.5V$ or $V_1 > V_{CC} + 0.5V$	-20	20	mA
I _{OK}	DC output diode current	For $V_O < -0.5V$ or $V_O > V_{CC} + -0.5V$	-20	20	mA
I _{CC}	DC V _{CC} or ground current		-50	50	mA
DC Output Source or Sink Current per Output Pin, I _O	For $V_O > -0.5V$ or $V_O < V_{CC} + -0.5V$		-25	25	mA
T _{JMAX}	Maximum junction temperature (Plastic Package)			150	°C
T _{stg}	Storage temperature		-65	150	°C

⁽¹⁾ Stresses beyond those listed under *Absolute Maximum Rating* may cause permanent damage to the device. These are stress ratings only, which do not imply functional operation of the device at these or any other conditions beyond those indicated under *Recommended Operating Condition*. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

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(2) All voltages are with respect to ground, unless otherwise specified.

6 ESD Ratings

			VALUE	UNIT
 ,	Electrostatic discharge	Human body model (HBM), per AEC Q100-002, all pins ⁽¹⁾	400	V
V _(ESD) Electrostatic discharge	Charged device model (CDM), per AEC Q100-011, all pins	250	V	

(1) AEC Q100-002 indicates that HBM stressing must be in accordance with the ANSI/ESDA/JEDEC JS-001 specification.



7 Thermal Information

			CD74H	ICx4067		
	THERMAL METRIC (1)	DW (SOIC)	RGY (QFN)	DGS (VSSOP)	PW (TSSOP)	UNIT
		24 PINS	24 PINS	24 PINS	24 PINS	
$R_{\theta JA}$	Junction-to-ambient thermal resistance	84.8	67.1	96.8	97.4	°C/W
R _{θJC(top)}	Junction-to-case (top) thermal resistance	57.0	59.2	43.4	45.0	°C/W
R _{θJB}	Junction-to-board thermal resistance	59.5	45.4	58.7	62.7	°C/W
Ψ_{JT}	Junction-to-top characterization parameter	29.0	9.3	3.9	5.20	°C/W
Ψ_{JB}	Junction-to-board characterization parameter	59.0	45.1	58.2	62.1	°C/W
R _{θJC(bot)}	Junction-to-case (bottom) thermal resistance	N/A	34.7	N/A	N/A	°C/W

⁽¹⁾ For more information about traditional and new thermal metrics, see the Semiconductor and IC Package Thermal Metrics application report.

8 Recommended Operating Conditions

			MIN	NOM MAX	UNIT
V _{CC}	Supply voltage range (T _A = full package temperature range)	74HC types	2	6	V
V _{CC}	Supply voltage range (T _A = full package temperature range)	74HCT types	4.5	5.5	V
V _{IS}	Analog switch I/O voltage		0	V _{CC}	V
T _A	Ambient temperature	Ambient temperature	-40	125	°C
		2V	0	1000	
t _r , t _f	Input rise and fall times	4.5V	0	500	ns
		6V	0	400	

Product Folder Links: CD74HCT4067-Q1



9 Electrical Characteristics: HC Devices

Over operating free-air temperature range (unless otherwise noted)

PARAMETER			TEST C	ONDITIONS		MIN	TYP	MAX	UNIT
Analog Switch		1							
		V _{IS} (V)	V _I (V)	V _{CC} (V)	T _A				
				2		1.5			
High Level Input Voltage	V_{IH}			4.5		3.15			V
				6	-40°C to 125°C	4.2			
				2	-40 C to 125 C			0.5	
Low Level Input Voltage	VIL			4.5				1.35	V
				6				1.8	
				4.5 25°C		70	160		
		V _{CC} or GND	V _{CC} or GND	4.5	–40°C to 125°C			200	Ω
ON" Resistance IO = 1mA			ACC OL CLAD	6	25°C		60	140	
	В				–40°C to 125°C			175	
	R _{ON}	V _{CC} to GND	V _{CC} to GND	4.5 6	25°C		90	180	
					-40°C to 125°C			225	
					25°C		80	160	
					–40°C to 125°C			200	
"ON" Resistance Between Any Two	ΔR _{ON}			4.5	25°C		10		Ω
Switches	ΔΚΟΝ			6	25°C		8.5		12
Off-Switch Leakage Current		E = V _{CC}	V _{CC} or GND	6	25°C			±0.8	μA
On-Switch Leakage Current	IZ	E - VCC	ACC OL GIAD	0	–40°C to 125°C			±8	μΑ
Input Lookago Current (Any Control)			V _{CC} or	6	25°C			±0.1	
nput Leakage Current (Any Control)	I _{IL}		GND ⁽¹⁾	6	-40°C to 125°C			±1	μA
Quiescent Device Current	Device Current	V _{CC} or GND	GND 6			8	μA		
	I _{CC}		ACC OL GIAD	O	-40°C to 125°C			160	μΛ

⁽¹⁾ Any voltage between V_{CC} and GND.



10 Electrical Characteristics: HCT Devices

Over operating free-air temperature range (unless otherwise noted)

	PARAMETER		TEST CONDITIONS					TYP	MAX	UNIT	
Analo	g Switch										
			V _{IS} (V)	V _I (V)	V _{CC} (V)	T _A					
High L	evel Input Voltage	V_{IH}			4.5	25°C	2			٧	
Low L	evel Input Voltage	V_{IL}			4.5	–40°C to 125°C			0.8	V	
			V _{CC} or GND	V _{CC} or GND		25°C		70	160		
"ON" I	Resistance IO = 1mA	D	ACC OL GIAD	ACC OL GIAD	4.5	–40°C to 125°C			200	Ω	
ON	Resistance IO – IIIIA	R _{ON}	VCC to GND VCC to GND	VCC to GND	4.5	25°C		90	180	12	
					–40°C to 125°C			225			
"ON" I Switch	Resistance Between Any Two nes	ΔR _{ON}			4.5	25°C		10		Ω	
O# 0	witch I and an Oromant		= - \ <i>'</i>	V _{CC} V _{CC} or GND	5.5	25°C			±0.8	μA	
OII-SV	vitch Leakage Current	IZ	$\overline{E} = V_{CC}$		3.3	–40°C to 125°C			±8		
المصيا	ackage Current (Any Central)			V/ CALID	V or CND	E E	25°C			±0.1	
input i	Leakage Current (Any Control)	'IL		V _{CC} or GND	5.5	–40°C to 125°C			±1	μA	
Quies	cent Device Current			V _{CC} or GND	5.5	25°C			8		
		I _{CC}		ACC OL GIAD	3.3	–40°C to 125°C			80	μA	
	onal Quiescent Device Current	ΔI _{CC}				25°C		100	360		
Per In	Per Input Pin: 1 Unit Load			V _{CC} - 2.1	4.5 to 5.5	–40°C to 125°C			450	μA	
						25°C		,	10		
CI	Control inputs					–55°C to 85°C			10	pF	
						–55°C to 125°C			10		

⁽¹⁾ For dual-supply systems theoretical worst case (V_1 = 2.4V, V_{CC} = 5.5V) specification is 1.8mA

11 Switching Characteristics HC

over operating free-air temperature range (unless otherwise noted)

	Parameter	Test Co	nditions	C _L (pF)	MIN NOM	MAX	UNIT	
	FROM (INPUT) TO (OUTPUT)	V _{CC} (V)	T _A					
	I _n TO Common I/O	2	25°C			75	20	
			-40°C to 125°C			110	ns	
		4.5	25°C	50		15	20	
t _{pd}			-40°C to 125°C	50		22	ns	
-pa		6	25°C			13		
			-40°C to 125°C	:		19	ns	
		5	25°C	15	6		ns	
		2	25°C			275		
			-40°C to 125°C			415	ns	
		4.5	25°C	50		55		
t _{en}	E TO Common I/O		-40°C to 125°C	50		83	ns	
en	L 10 common // c	6	25°C			47		
			-40°C to 125°C			71	ns	
		5	25°C	15	23		ns	

Product Folder Links: CD74HCT4067-Q1



over operating free-air temperature range (unless otherwise noted)

	Parameter	Test	Conditions	C _L (pF)	MIN N	ом м	IAX	UNIT
		2	25°C				300	
			-40°C to 125°C			4	450	ns
		4.5	25°C	50			60	no
t _{en}	S _n TO Common I/O		-40°C to 125°C	30			90	ns
eli		6	25°C				51	no
			-40°C to 125°C				76	ns
		5	25°C	15		25		ns
		2	25°C				275	
t _{dis}	Ē TO Common I/O		-40°C to 125°C	С		4	415	ns
		4.5	25°C	50			55	ne
			-40°C to 125°C	- 50			83	ns
		6	25°C				47	ne
			-40°C to 125°C				71	ns
		5	25°C	15		23		ns
		2	25°C			2	290	ne
			-40°C to 125°C				435	ns
		4.5	25°C	50			58	ne
t _{dis}	S _n TO Common I/O		-40°C to 125°C	30			87	ns
-uis		6	25°C				49	ns
			-40°C to 125°C				74	113
		5	25°C	15		21		ns
C _{PD} Power dissipatio n capacitan ce(1)	C _{PD}	5	25°C			93		pF

12 Switching Characteristics HCT

over operating free-air temperature range (unless otherwise noted)

	Parameter	Test Co	nditions	C _L (pF)	MIN	NOM	MAX	UNIT
	FROM (INPUT) TO (OUTPUT)	V _{CC} (V)	T _A					
t _{pd}		5	25°C	15		6		
	I _n TO Common I/O	4.5	25°C	50			15	ns
			-40°C to 125°C	50			19	
	Ē TO Common I/O	5	25°C	15		25		
t _{en}		4.5	25°C	50			60	ns
			-40°C to 125°C	50			75	
	S _n TO Common I/O	5	25°C	15		25		
t _{en}		4.5	25°C	50			60	ns
			-40°C to 125°C	50			75	

over operating free-air temperature range (unless otherwise noted)

	Parameter	Test Co	nditions	C _L (pF)	MIN	NOM	MAX	UNIT
		5	25°C	15		23		
t _{dis}	E TO Common I/O	4.5	25°C	- 50			55	ns
			-40°C to 125°C	50			69	
	S _n TO Common I/O	5	25°C	15		21		
t _{dis}		4.5	25°C	- 50			58	ns
			-40°C to 125°C	50			73	
C _{PD} Power dissipatio n capacitan ce(1)	C _{PD}	5	25°C			96		pF

13 Analog Channel Specifications

over operating free-air temperature range (unless otherwise noted)

Parameter	Test Co	Test Conditions		HC	нст	UNIT
Switch Frequency Response Bandwidth at -3dB			4.5	89	89	MHz
Total Harmonic Distortion	1kHz, V _{IS} = 4V _{PP}		4.5	0.051	0.051	%
Switch "OFF" signal feedthrough			4.5	-75	-75	dB
C _S Switch input capacitance				5	5	pF
C _{COM} Common Capacitance				50	50	pF

Product Folder Links: CD74HCT4067-Q1



14 Parameter Measurement Information

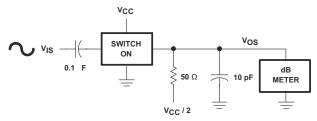


Figure 14-1. Frequency-Response Test Circuit

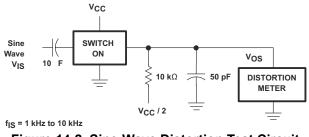


Figure 14-2. Sine-Wave Distortion Test Circuit

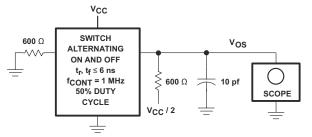


Figure 14-3. Control-to-Switch Feedthrough Noise Test Circuit

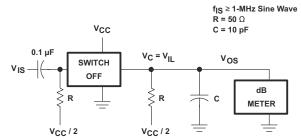
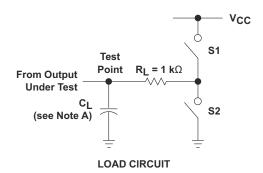
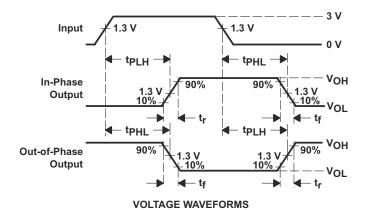


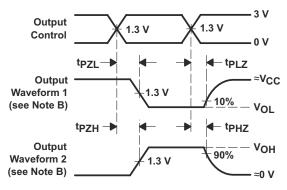
Figure 14-4. Switch OFF Signal Feedthrough Test Circuit





PARAI	METER	S1	S2
t _{en}	tPZH	Open	Closed
	tPZL	Closed	Open
t _{dis}	tPHZ	Open	Closed
	tPLZ	Closed	Open
t _{pd}		Open	Open





VOLTAGE WAVEFORMS
OUTPUT ENABLE AND DISABLE TIMES

PROPAGATION DELAY AND OUTPUT TRANSITION TIMES NOTES: A. C_L includes probe and test-fixture capacitance.

- B. Waveform 1 is for an output with internal conditions such that the output is low, except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high, except when disabled by the output control.
- C. Phase relationships between waveforms were chosen arbitrarily. All input pulses are supplied by generators having the following characteristics: PRR ≤ 1 MHz, Z_O = 50 Ω, t_f = 6 ns, t_f = 6 ns.
- D. For clock inputs, f_{max} is measured with the input duty cycle at 50%.
- E. The outputs are measured one at a time, with one input transition per measurement.
- F. t_{PLZ} and t_{PHZ} are the same as t_{dis}.
- G. t_{PZL} and t_{PZH} are the same as t_{en}.
- H. tpLH and tpHL are the same as tpd.

Figure 14-5. Load Circuit and Voltage Waveforms

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15 Detailed Description

15.1 Functional Block Diagram

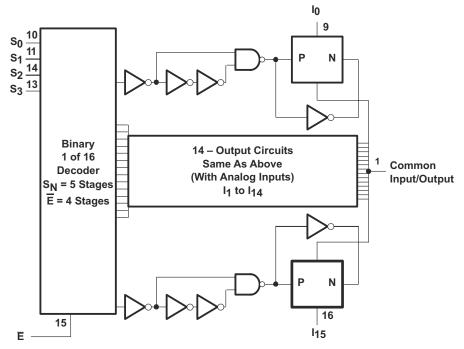


Figure 15-1. Logic Diagram (Positive Logic)

15.2 Device Functional Modes

Table 15-1. Function Table (1)

14110 10 111 41101011 141010												
S0	S1	S2	S 3	Ē	SELECTED CHANNEL							
Х	X	Х	X	Н	None							
L	L	L	L	L	0							
Н	L	L	L	L	1							
L	Н	L	L	L	2							
Н	Н	L	L	L	3							
L	L	Н	L	L	4							
Н	L	Н	L	L	5							
L	Н	Н	L	L	6							
Н	Н	Н	L	L	7							
L	L	L	Н	L	8							
Н	L	L	Н	L	9							
L	Н	L	Н	L	10							
Н	Н	L	Н	L	11							
L	L	Н	Н	L	12							
Н	L	Н	Н	L	13							
L	Н	Н	Н	L	14							
Н	Н	Н	Н	L	15							

⁽¹⁾ H = High level

L = Low level

X = Don't Care

16 Device and Documentation Support

TI offers an extensive line of development tools. Tools and software to evaluate the performance of the device, generate code, and develop solutions are listed below.

16.1 Receiving Notification of Documentation Updates

To receive notification of documentation updates, navigate to the device product folder on ti.com. Click on *Notifications* to register and receive a weekly digest of any product information that has changed. For change details, review the revision history included in any revised document.

16.2 Support Resources

TI E2E[™] support forums are an engineer's go-to source for fast, verified answers and design help — straight from the experts. Search existing answers or ask your own question to get the quick design help you need.

Linked content is provided "AS IS" by the respective contributors. They do not constitute TI specifications and do not necessarily reflect TI's views; see TI's Terms of Use.

16.3 Trademarks

TI E2E[™] is a trademark of Texas Instruments.

All trademarks are the property of their respective owners.

16.4 Electrostatic Discharge Caution



This integrated circuit can be damaged by ESD. Texas Instruments recommends that all integrated circuits be handled with appropriate precautions. Failure to observe proper handling and installation procedures can cause damage.

ESD damage can range from subtle performance degradation to complete device failure. Precision integrated circuits may be more susceptible to damage because very small parametric changes could cause the device not to meet its published specifications.

16.5 Glossary

TI Glossary

This glossary lists and explains terms, acronyms, and definitions.

17 Revision History

NOTE: Page numbers for previous revisions may differ from page numbers in the current version.

С	hanges from Revision B (April 2008) to Revision C (February 2025)	Page
•	Updated the numbering format for tables, figures, and cross-references throughout the document	1
•	Updated Thermal parameters for DW package	<mark>6</mark>
	Added RGY, DGS, and PW packages	
	Added HC Electrical characteristics	
•	Added HC Switching characteristics	<mark>8</mark>

CI	hanges from Revision A (April 2008) to Revision B (August 2012)	Page
•	Changed H2 to H1A and C3B to C2 throughout document	1
•	Added AEC-Q100 info to Features	1
•	Removed from Features: Wide Operating Temperature Range: -40°C to 85°C	1
•	Added applications	1
•	Replaced SOIC-M package info in ordering info table with new row for DW-SOIC-M package	1
	· · · · · · · · · · · · · · · · · · ·	

Product Folder Links: CD74HCT4067-Q1



18 Mechanical, Packaging, and Orderable Information

The following pages include mechanical, packaging, and orderable information. This information is the most current data available for the designated devices. This data is subject to change without notice and revision of this document. For browser-based versions of this data sheet, refer to the left-hand navigation.

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PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead finish/ Ball material	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
CD74HCT4067QM96Q1	ACTIVE	SOIC	DW	24	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	HCT4067I	Samples
D24067IM96G4Q1	OBSOLETE	SOIC	DW	24		TBD	Call TI	Call TI	-40 to 85	HCT4067I	

(1) The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

(2) RoHS: TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

RoHS Exempt: TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

Green: TI defines "Green" to mean the content of Chlorine (CI) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must also meet the <=1000ppm threshold requirement.

- (3) MSL, Peak Temp. The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.
- (4) There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.
- (5) Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.
- (6) Lead finish/Ball material Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

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PACKAGE OPTION ADDENDUM

www.ti.com 23-Jan-2025

OTHER QUALIFIED VERSIONS OF CD74HCT4067-Q1:

● Catalog : CD74HCT4067

NOTE: Qualified Version Definitions:

• Catalog - TI's standard catalog product

PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





A0	Dimension designed to accommodate the component width
В0	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

Device		Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
CD74HCT4067QM96Q1	SOIC	DW	24	2000	330.0	24.4	10.75	15.7	2.7	12.0	24.0	Q1

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*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
CD74HCT4067QM96Q1	SOIC	DW	24	2000	350.0	350.0	43.0

DW (R-PDSO-G24)

PLASTIC SMALL OUTLINE



NOTES: A. All linear dimensions are in inches (millimeters). Dimensioning and tolerancing per ASME Y14.5M-1994.

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion not to exceed 0.006 (0,15).
- D. Falls within JEDEC MS-013 variation AD.



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