

Data sheet acquired from Harris Semiconductor SCHS205I

CD54HC4049, CD74HC4049, CD54HC4050, CD74HC4050

High-Speed CMOS Logic Hex Buffers, Inverting and Non-Inverting

February 1998 - Revised February 2005

Features

- Typical Propagation Delay: 6ns at V_{CC} = 5V, C_L = 15pF, T_A = 25°C
- High-to-Low Voltage Level Converter for up to V_I = 16V
- Fanout (Over Temperature Range)
 - Standard Outputs...... 10 LSTTL Loads
 - Bus Driver Outputs 15 LSTTL Loads
- Wide Operating Temperature Range . . . –55°C to 125°C
- Balanced Propagation Delay and Transition Times
- Significant Power Reduction Compared to LSTTL Logic ICs
- HC Types
 - 2V to 6V Operation
 - High Noise Immunity: N_{IL} = 30%, N_{IH} = 30% of V_{CC} at V_{CC} = 5V

Pinout

CD54HC4049, CD54HC4050 (CERDIP) CD74HC4049, CD74HC4050 (PDIP, SOIC, SOP, TSSOP) TOP VIEW

| <u>4049</u> | <u>4050</u> | <u>4050</u> | <u>4049</u> |
|-----------------|-------------------|-----------------|-------------|
| v_{CC} | V _{CC} 1 | 16 NC | NC |
| <u>1Y</u> | 1Y 2 | 15 6Y | 6Y |
| 1A | 1A 3 | 14 6A | 6A |
| 2 Y | 2Y 4 | 13 NC | NC |
| 2A | 2A 5 | 12 5Y | 5 Y |
| 3Y | 3Y 6 | 11 5A | 5A |
| 3A | 3A 7 | 10 4Y | 4Y |
| GND | GND 8 | 9 4A | 4A |
| | | | |

Description

The 'HC4049 and 'HC4050 are fabricated with high-speed silicon gate technology. They have a modified input protection structure that enables these parts to be usedas logic level translators which convert high-level logic to a low-level logic while operating off the low-level logic supply. For example, 15-V input pulse levels can be down-converted to 0-V to 5-V logic levels. The modified input protection structure protects the input from negative electrostatic discharge. These parts also can be used as simple buffers or inverters without level translation. The 'HC4049 and 'HC4050 are enhanced versions of equivalent CMOS types.

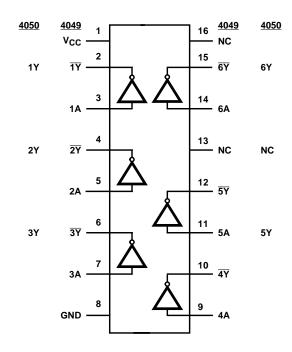
Ordering Information

| PART NUMBER | TEMP. RANGE (°C) | PACKAGE |
|---------------|---------------------|--------------|
| CD54HC4049F3A | -55 to 125 | 16 Ld CERDIP |
| CD54HC4050F3A | -55 to 125 | 16 Ld CERDIP |
| CD74HC4049E | -55 to 125 | 16 Ld PDIP |
| CD74HC4049M | -55 to 125 | 16 Ld SOIC |
| CD74HCT4050MT | -55 to 125 | 16 Ld SOIC |
| CD74HC4049M96 | -55 to 125 | 16 Ld SOIC |
| CD74HC4049NSR | -55 to 125 | 16 Ld SOP |
| CD74HC4049PW | -55 to 125 | 16 Ld TSSOP |
| CD74HC4049PWR | -55 to 125 | 16 Ld TSSOP |
| CD74HC4049PWT | -55 to 125 | 16 Ld TSSOP |
| CD74HC4050E | -55 to 125 | 16 Ld PDIP |
| CD74HC4050M | -55 to 125 | 16 Ld SOIC |
| CD74HC4050MT | -55 to 125 | 16 Ld SOIC |
| CD74HC4050M96 | -55 to 125 | 16 Ld SOIC |
| CD74HC4050NSR | -55 to 125 | 16 Ld SOP |
| CD74HC4050PW | -55 to 125 | 16 Ld TSSOP |
| CD74HC4050PWR | -55 to 125 | 16 Ld TSSOP |
| CD74HC4050PWT | -55 to 125 | 16 Ld TSSOP |

NOTE: When ordering, use the entire part number. The suffixes 96 and R denote tape and reel. The suffix T denotes a small-quantity reel of 250.

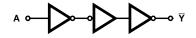
CD54HC4049, CD74HC4049, CD54HC4050, CD74HC4050

Functional Diagram

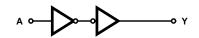


Logic Diagrams

HC4049



HC4050



CD54HC4049, CD74HC4049, CD54HC4050, CD74HC4050

Absolute Maximum Ratings

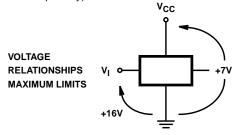
| DC Supply Voltage, V _{CC} 0.5V to 7V |
|---------------------------------------------------------------------------------|
| Input Voltage Range |
| DC Input Diode Current, I _{IK} |
| For V _I < -0.5V20mA |
| DC Output Diode Current, IOK |
| For $V_O < -0.5V$ or $V_O > V_{CC} + 0.5V$ |
| DC Output Source or Sink Current per Output Pin, IO |
| For $V_O > -0.5V$ or $V_O < V_{CC} + 0.5V$ |
| DC V _{CC} or Ground Current, I _{CC or} I _{GND} ±50mA |

Operating Conditions

| Temperature Range (T _A)–55°C to 125°C |
|---------------------------------------------------|
| Supply Voltage Range, V _{CC} |
| HC Types2V to 6V |
| HCT Types |
| DC Input Voltage, V ₁ 0V to 15V |
| DC Output Voltage, VO |
| Input Rise and Fall Time |
| 2V |
| 4.5V 500ns (Max) |
| 6V |

Thermal Information

| Package Thermal Impedance, θ _{JA} (see Note 1): |
|--------------------------------------------------------------|
| E (PDIP) Package |
| M (SOIC) Package73°C/W |
| NS (SOP) Package 64°C/W |
| PW (TSSOP) Package 108 ^o C/W |
| Maximum Junction Temperature (Hermetic Package or Die) 175°C |
| Maximum Junction Temperature (Plastic Package) 150°C |
| Maximum Storage Temperature Range –65°C to 150°C |
| Maximum Lead Temperature (Soldering 10s)300°C |
| (SOIC - Lead Tips Only) |



CAUTION: Stresses above those listed in "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress only rating and operation of the device at these or any other conditions above those indicated in the operational sections of this specification is not implied.

NOTE:

1. The package thermal impedance is calculated in accordance with JESD 51-7.

DC Electrical Specifications

| | | TES CONDI | | V _{CC} | | 25°C | | -40°C 1 | го 85°С | | C TO 5°C | |
|--------------------------|-----------------|------------------------------------|---------------------|-----------------|------|------|------|---------|---------|--------------------------------------------------|-------------|-------|
| PARAMETER | SYMBOL | V _I (V) | I _O (mA) | (V) | MIN | TYP | MAX | MIN | MAX | MIN | MAX | UNITS |
| HC TYPES | | | | | | | | | | | | |
| High Level Input | V _{IH} | - | - | 2 | 1.5 | - | - | 1.5 | - | 1.5 | - | V |
| Voltage | | | | 4.5 | 3.15 | - | - | 3.15 | - | 3.15 | - | V |
| | | | | 6 | 4.2 | - | - | 4.2 | - | 4.2 | - | V |
| Low Level Input | V _{IL} | - | - | 2 | - | - | 0.5 | - | 0.5 | - | 0.5 | V |
| Voltage | | | | 4.5 | - | - | 1.35 | - | 1.35 | - | 1.35 | V |
| | | | | 6 | - | - | 1.8 | - | 1.8 | - | 1.8 | V |
| High Level Output | V _{OH} | V _{IH} or V _{IL} | -0.02 | 2 | 1.9 | - | - | 1.9 | - | 1.9 | - | V |
| Voltage CMOS Loads | | | -0.02 | 4.5 | 4.4 | - | - | 4.4 | - | 4.4 | - | V |
| OWIGO Educa | | | -0.02 | 6 | 5.9 | - | - | 5.9 | - | | V | |
| High Level Output | | | -4 | 4.5 | 3.98 | - | - | 3.84 | - | 3.7 | - | V |
| Voltage TTL Loads | | | -5.2 | 6 | 5.48 | - | - | 5.34 | - | 5.2 | - | V |
| Low Level Output | V _{OL} | V _{IH} or V _{IL} | 0.02 | 2 | - | - | 0.1 | - | 0.1 | - | 0.1 | V |
| Voltage CMOS Loads | | | 0.02 | 4.5 | - | - | 0.1 | - | 0.1 | - | 0.1 | V |
| OMOO Edddo | | | 0.02 | 6 | - | - | 0.1 | - | 0.1 | - | 0.1 | V |
| Low Level Output | | | 4 | 4.5 | - | - | 0.26 | - | 0.33 | - | 0.4 | V |
| Voltage TTL Loads | | | 5.2 | 6 | - | - | 0.26 | _ | 0.33 | i | 0.4 | V |
| Input Leakage Current | II | V _{CC} or GND | - | 6 | - | - | ±0.1 | - | ±1 | - | ±1 | μА |
| | | 15 | - | 6 | - | - | ±0.5 | - | ±5 | - | ±5 |] |

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DC Electrical Specifications (Continued)

| | | TEST CONDITIONS V _{CC} | | | 25°C | | | –40°C 1 | O 85°C | –55°C TO 125°C | | |
|-----------------------------|--------|------------------------------------|---------------------|-----|------|-----|-----|---------|--------|-------------------|-----|-------|
| PARAMETER | SYMBOL | V _I (V) | I _O (mA) | (V) | MIN | TYP | MAX | MIN | MAX | MIN | MAX | UNITS |
| Quiescent Device Current | Icc | V _{CC} or GND | 0 | 6 | - | - | 2 | - | 20 | - | 40 | μА |

Switching Specifications Input t_r, t_f = 6ns

| | | TEST | | | 25°C | | –40°C TO 85°C | | –55°C TO 125°C | | |
|--------------------------------------------|-------------------------------------|-----------------------|---------------------|-----|------|-----|------------------|-----|-------------------|-----|-------|
| PARAMETER | SYMBOL | CONDITIONS | V _{CC} (V) | MIN | TYP | MAX | MIN | MAX | MIN | MAX | UNITS |
| HC TYPES | | | | | | | | | | | |
| Propagation Delay, | t _{PLH} , t _{PHL} | $C_L = 50pF$ | 2 | - | - | 85 | - | 105 | - | 130 | ns |
| nA to nY HC4049 nA to nY HC4050 | | | 4.5 | - | - | 17 | - | 21 | - | 26 | ns |
| 11/7 (3 111 110 4000 | | | 6 | - | - | 14 | - | 18 | - | 22 | ns |
| | | C _L = 15pF | 5 | - | 6 | - | - | - | - | - | ns |
| Transition Times (Figure 1) | t _{TLH} , t _{THL} | C _L = 50pF | 2 | - | - | 75 | - | 95 | - | 110 | ns |
| | | | 4.5 | - | - | 15 | - | 19 | - | 22 | ns |
| | | | 6 | - | - | 13 | - | 16 | - | 19 | ns |
| Input Capacitance | Cl | - | - | - | - | 10 | - | 10 | - | 10 | pF |
| Power Dissipation Capacitance (Notes 2, 3) | C _{PD} | - | 5 | - | 35 | - | - | - | - | - | pF |

NOTES:

- 2. C_{PD} is used to determine the dynamic power consumption, per gate. 3. $P_D = V_{CC}^2 f_i (C_{PD} + C_L)$ where f_i = Input Frequency, C_L = Output Load Capacitance, V_{CC} = Supply Voltage.

Test Circuit and Waveform

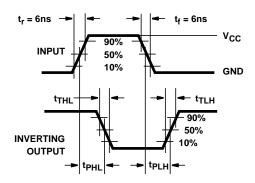


FIGURE 1. HC AND HCU TRANSITION TIMES AND PROPAGATION DELAY TIMES, COMBINATION LOGIC





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PACKAGING INFORMATION

| Orderable Device | Status | Package Type | Package | Pins | Package | Eco Plan | Lead/Ball Finish | MSL Peak Temp | Op Temp (°C) | Device Marking | Samples |
|------------------|--------|--------------|---------|------|---------|----------------------------|------------------|--------------------|--------------|---------------------------------|---------|
| | (1) | | Drawing | | Qty | (2) | (6) | (3) | | (4/5) | |
| 5962-8681901EA | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | -55 to 125 | 5962-8681901EA CD54HC4049F3A | Samples |
| 5962-8682001EA | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | -55 to 125 | 5962-8682001EA CD54HC4050F3A | Samples |
| CD54HC4049F3A | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | -55 to 125 | 5962-8681901EA CD54HC4049F3A | Samples |
| CD54HC4050F3A | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | -55 to 125 | 5962-8682001EA CD54HC4050F3A | Samples |
| CD74HC4049E | ACTIVE | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type | -55 to 125 | CD74HC4049E | Samples |
| CD74HC4049EE4 | ACTIVE | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type | -55 to 125 | CD74HC4049E | Samples |
| CD74HC4049M | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HC4049M | Samples |
| CD74HC4049M96 | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HC4049M | Samples |
| CD74HC4049M96E4 | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HC4049M | Samples |
| CD74HC4049M96G4 | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HC4049M | Samples |
| CD74HC4049MT | ACTIVE | SOIC | D | 16 | 250 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HC4049M | Samples |
| CD74HC4049NSR | ACTIVE | so | NS | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HC4049M | Samples |
| CD74HC4049NSRE4 | ACTIVE | SO | NS | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HC4049M | Samples |
| CD74HC4049NSRG4 | ACTIVE | SO | NS | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HC4049M | Samples |
| CD74HC4049PW | ACTIVE | TSSOP | PW | 16 | 90 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HJ4049 | Samples |
| CD74HC4049PWR | ACTIVE | TSSOP | PW | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HJ4049 | Samples |
| CD74HC4049PWRE4 | ACTIVE | TSSOP | PW | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HJ4049 | Samples |





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| Orderable Device | Status | Package Type | Package Drawing | Pins | Package Qty | Eco Plan | Lead/Ball Finish (6) | MSL Peak Temp | Op Temp (°C) | Device Marking (4/5) | Samples |
|------------------|--------|--------------|--------------------|------|----------------|----------------------------|----------------------|--------------------|--------------|-------------------------|---------|
| CD74HC4049PWRG4 | ACTIVE | TSSOP | PW | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HJ4049 | Samples |
| CD74HC4050E | ACTIVE | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type | -55 to 125 | CD74HC4050E | Samples |
| CD74HC4050EE4 | ACTIVE | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type | -55 to 125 | CD74HC4050E | Samples |
| CD74HC4050M | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HC4050M | Samples |
| CD74HC4050M96 | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HC4050M | Samples |
| CD74HC4050M96G4 | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HC4050M | Samples |
| CD74HC4050ME4 | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HC4050M | Samples |
| CD74HC4050MG4 | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HC4050M | Samples |
| CD74HC4050MT | ACTIVE | SOIC | D | 16 | 250 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HC4050M | Samples |
| CD74HC4050NSR | ACTIVE | so | NS | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HC4050M | Samples |
| CD74HC4050NSRG4 | ACTIVE | so | NS | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HC4050M | Samples |
| CD74HC4050PW | ACTIVE | TSSOP | PW | 16 | 90 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HJ4050 | Samples |
| CD74HC4050PWR | ACTIVE | TSSOP | PW | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HJ4050 | Samples |
| CD74HC4050PWRG4 | ACTIVE | TSSOP | PW | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HJ4050 | Samples |
| CD74HC4050PWT | ACTIVE | TSSOP | PW | 16 | 250 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -55 to 125 | HJ4050 | Samples |

⁽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.

PACKAGE OPTION ADDENDUM



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(2) Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.

TBD: The Pb-Free/Green conversion plan has not been defined.

Pb-Free (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.

Pb-Free (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

- (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/Ball Finish Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead/Ball Finish values may wrap to two lines if the finish value exceeds the maximum column width.

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OTHER QUALIFIED VERSIONS OF CD54HC4049, CD54HC4050, CD74HC4049, CD74HC4050:

• Catalog: CD74HC4049, CD74HC4050

Military: CD54HC4049, CD54HC4050

NOTE: Qualified Version Definitions:

Catalog - TI's standard catalog product





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• Military - QML certified for Military and Defense Applications

PACKAGE MATERIALS INFORMATION

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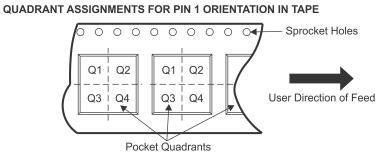
TAPE AND REEL INFORMATION





| | Dimension designed to accommodate the component width |
|----|-----------------------------------------------------------|
| B0 | 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 |

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*All dimensions are nominal

| Device | Package Type | Package Drawing | | SPQ | Reel Diameter (mm) | Reel Width W1 (mm) | A0 (mm) | B0 (mm) | K0 (mm) | P1 (mm) | W (mm) | Pin1 Quadrant |
|---------------|-----------------|--------------------|----|------|--------------------------|--------------------------|------------|------------|------------|------------|-----------|------------------|
| CD74HC4049M96 | SOIC | D | 16 | 2500 | 330.0 | 16.4 | 6.5 | 10.3 | 2.1 | 8.0 | 16.0 | Q1 |
| CD74HC4049NSR | SO | NS | 16 | 2000 | 330.0 | 16.4 | 8.2 | 10.5 | 2.5 | 12.0 | 16.0 | Q1 |
| CD74HC4049PWR | TSSOP | PW | 16 | 2000 | 330.0 | 12.4 | 6.9 | 5.6 | 1.6 | 8.0 | 12.0 | Q1 |
| CD74HC4050M96 | SOIC | D | 16 | 2500 | 330.0 | 16.4 | 6.5 | 10.3 | 2.1 | 8.0 | 16.0 | Q1 |
| CD74HC4050NSR | SO | NS | 16 | 2000 | 330.0 | 16.4 | 8.2 | 10.5 | 2.5 | 12.0 | 16.0 | Q1 |
| CD74HC4050PWR | TSSOP | PW | 16 | 2000 | 330.0 | 12.4 | 6.9 | 5.6 | 1.6 | 8.0 | 12.0 | Q1 |
| CD74HC4050PWT | TSSOP | PW | 16 | 250 | 330.0 | 12.4 | 6.9 | 5.6 | 1.6 | 8.0 | 12.0 | Q1 |

PACKAGE MATERIALS INFORMATION

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*All dimensions are nominal

| Device | Package Type | Package Drawing | Pins | SPQ | Length (mm) | Width (mm) | Height (mm) |
|---------------|--------------|-----------------|------|------|-------------|------------|-------------|
| CD74HC4049M96 | SOIC | D | 16 | 2500 | 333.2 | 345.9 | 28.6 |
| CD74HC4049NSR | SO | NS | 16 | 2000 | 367.0 | 367.0 | 38.0 |
| CD74HC4049PWR | TSSOP | PW | 16 | 2000 | 367.0 | 367.0 | 35.0 |
| CD74HC4050M96 | SOIC | D | 16 | 2500 | 333.2 | 345.9 | 28.6 |
| CD74HC4050NSR | SO | NS | 16 | 2000 | 367.0 | 367.0 | 38.0 |
| CD74HC4050PWR | TSSOP | PW | 16 | 2000 | 367.0 | 367.0 | 35.0 |
| CD74HC4050PWT | TSSOP | PW | 16 | 250 | 367.0 | 367.0 | 35.0 |

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