

Data sheet acquired from Harris Semiconductor SCHS208D

February 1998 - Revised August 2003

Features

٠	Wide Analog-In	put-Voltage Range	0V - 10V
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• Low "ON" Resistance

- V _{CC} = 4.5V	.25 Ω
- V _{CC} = 9V	. 15 Ω

- · Fast Switching and Propagation Delay Times
- Low "OFF" Leakage Current
- Wide Operating Temperature Range . . . -55°C to 125°C
- HC Types
 - 2V to 10V Operation
 - High Noise Immunity: N_{IL} = 30%, N_{IH} = 30% of V_{CC} at V_{CC} = 5V and 10V
- HCT Types
 - Direct LSTTL Input Logic Compatibility, V_{IL}= 0.8V (Max), V_{IH} = 2V (Min)
 - CMOS Input Compatibility, $I_{I} \leq 1 \mu A$ at $V_{OL}, \, V_{OH}$

CD54HC4066, CD74HC4066, CD74HCT4066

High-Speed CMOS Logic Quad Bilateral Switch

Description

The 'HC4066 and CD74HCT4066 contain four independent digitally controlled analog switches that use silicon-gate CMOS technology to achieve operating speeds similar to LSTTL with the low power consumption of standard CMOS integrated circuits.

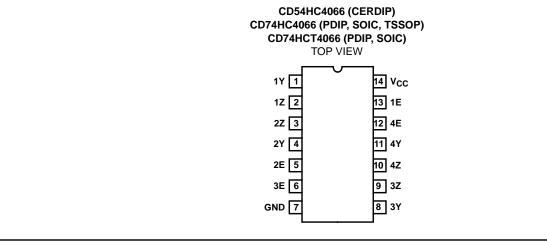
These switches feature the characteristic linear "ON" resistance of the metal-gate CD4066B. Each switch is turned on by a high-level voltage on its control input.

Ordering Information

PART NUMBER	TEMP. RANGE (^o C)	PACKAGE
CD54HC4066F3A	-55 to 125	14 Ld CERDIP
CD74HC4066E	-55 to 125	14 Ld PDIP
CD74HC4066M	-55 to 125	14 Ld SOIC
CD74HC4066MT	-55 to 125	14 Ld SOIC
CD74HC4066M96	-55 to 125	14 Ld SOIC
CD74HC4066PW	-55 to 125	14 Ld TSSOP
CD74HC4066PWR	-55 to 125	14 Ld TSSOP
CD74HC4066PWT	-55 to 125	14 Ld TSSOP
CD74HCT4066E	-55 to 125	14 Ld PDIP
CD74HCT4066M	-55 to 125	14 Ld SOIC
CD74HCT4066MT	-55 to 125	14 Ld SOIC
CD74HCT4066M96	-55 to 125	14 Ld SOIC

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.

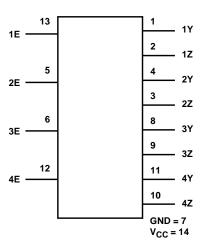
Pinout



CAUTION: These devices are sensitive to electrostatic discharge. Users should follow proper IC Handling Procedures.

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Functional Diagram

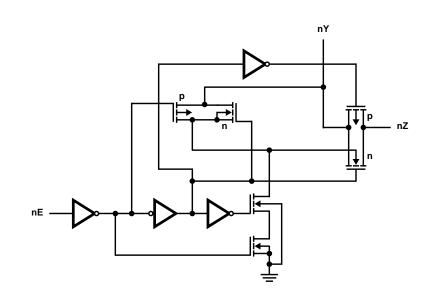


TRUTH TABLE

INPUT nE	SWITCH
L	Off
Н	On
H= High Level	

L= Low Level

Logic Diagram



Absolute Maximum Ratings

DC Supply Voltage, V _{CC}
HCT Types
HC Types0.5V to 10.5V
DC Input Diode Current, IIK
For $V_{I} < -0.5V$ or $V_{I} > V_{CC} + 0.5V$ ±20mA
DC Switch Current, I _O (Note 1)
For -0.5V < V _O < V _{CC} + 0.5V±25mA
DC Output Diode Current, IOK
For $V_O < -0.5V$ or $V_O > V_{CC} + 0.5V$ ±20mA
DC Output Source or Sink Current per Output Pin, IO
For $V_0 > -0.5V$ or $V_0 < V_{CC} + 0.5V$ ±25mA
DC V _{CC} or Ground Current, I _{CC} ±50mA

Operating Conditions

Temperature Range, T_A 55°C to 125°C Supply Voltage Range, V_{CC}
HC Types
HCT Types4.5V to 5.5V
DC Input or Output Voltage, V _I , V _O 0V to V _{CC}
Input Rise and Fall Time
2V
4.5V 500ns (Max)
6V

Thermal Information

Thermal Resistance (Typical, Note 2)	θ_{JA}
E (PDIP) Package	80 ⁰ C/W
M (SOIC) Package	86 ⁰ C/W
PW (TSSOP) Package	113 ⁰ C/W
Maximum Junction Temperature (Hermetic Package or Die)	175 ⁰ C
Maximum Junction Temperature (Plastic Package)	150 ⁰ C
Maximum Storage Temperature Range65°C	C to 150 ⁰ C
Maximum Lead Temperature (Soldering 10s)	300 ⁰ C
(SOIC - Lead Tips Only)	
Maximum Junction Temperature (Plastic Package) Maximum Storage Temperature Range65°C Maximum Lead Temperature (Soldering 10s)	150 ⁰ C C to 150 ⁰ C

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.

NOTES:

1. In certain applications, the external load-resistor current may include both V_{CC} and signal-line components. To avoid drawing V_{CC} current when switch current flows into the transmission gate inputs, (terminals 1, 4, 8 and 11) the voltage drop across the bidirectional switch must not exceed 0.6V (calculated from R_{ON} values shown in the DC Electrical Specifications Table). No V_{CC} current will flow through R_L if the switch current flows into terminals 2, 3, 9 and 10.

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

		TEST CONDITIONS			25 ⁰ C			-40 ⁰ C TO 85 ⁰ C		-55°C TO 125°C		
PARAMETER	SYMBOL	V _I (V)	V _{IS} (V)	V _{CC} (V)	MIN	ТҮР	MAX	MIN	MAX	MIN	MAX	UNITS
HC TYPES												
High Level Input	VIH	-	-	2	1.5	-	-	1.5	-	1.5	-	V
Voltage				4.5	3.15	-	-	3.15	-	3.15	-	V
				9	6.3	-	-	6.3	-	6.3	-	V
Low Level Input	V _{IL}	-	-	2	-	-	0.5	-	0.5	-	0.5	V
Voltage				4.5	-	-	1.35	-	1.35	-	1.35	V
				9	-	-	2.7	-	2.7	-	2.7	V
Input Leakage Current (Any Control)	Ι _{ΙL}	V _{CC} or GND	-	10	-	-	±0.1	-	±1	-	±1	μA
Off-Switch Leakage Current	Ι _Ζ	V _{IL}	V _{CC} or GND	10	-	-	±0.1	-	±1	-	±1	μA

DC Electrical Specifications

		TEST CONDITIONS			25 ⁰ C			-40 ⁰ C TO 85 ⁰ C		-55°C TO 125°C		
PARAMETER	SYMBOL	V _I (V)	V _{IS} (V)	V _{CC} (V)	MIN	ТҮР	MAX	MIN	MAX	MIN	MAX	UNITS
"ON" Resistance	R _{ON}	V _{CC}	V _{CC} or	4.5	-	25	80	-	106	-	128	Ω
I _O = 1mA (Figure 1)			GND	6	-	20	75	-	94	-	113	Ω
				9	-	15	60	-	78	-	95	Ω
			V _{CC} to	4.5	-	35	95	-	118	-	142	Ω
			GND	6	-	24	84	-	105	-	126	Ω
				9	-	16	70	-	88	-	105	Ω
"ON" Resistance	∆R _{ON}	V _{CC}	-	4.5	-	1	-	-	-	-	-	Ω
Between Any Two Switches				6	-	0.75	-	-	-	-	-	Ω
				9	-	0.5	-	-	-	-	-	Ω
Quiescent Device	Icc	V _{CC} or GND	-	6	-	-	2	-	20	-	40	μA
Current				10	-	-	16	-	160	-	320	μA
HCT TYPES												-
High Level Input Voltage	V _{IH}	-	-	4.5 to 5.5	2	-	-	2	-	2	-	V
Low Level Input Voltage	V _{IL}	-	-	4.5 to 5.5	-	-	0.8	-	0.8	-	0.8	V
Input Leakage Current (Any Control)	Ι _{ΙL}	V _{CC} or GND	-	5.5	-	-	±0.1	-	±1	-	±1	μA
Off-Switch Leakage Current	Ι _Ζ	VIL	V _{CC} or GND	5.5	-	-	±0.1	-	±1	-	±1	μΑ
"ON" Resistance I _O = 1mA	R _{ON}	V _{CC}	V _{CC} or GND	4.5	-	25	80	-	106	-	128	Ω
(Figure 1)			V _{CC} to GND	4.5	-	35	95	-	118	-	142	Ω
"ON" Resistance Between Any Two Switches	ΔR _{ON}	V _{CC}	-	4.5	-	1	-	-	-	-	-	Ω
Quiescent Device Current	Icc	V _{CC} or GND	-	5.5	-	-	2	-	20	-	40	μA
Additional Quiescent Device Current Per Input Pin: 1 Unit Load	ΔI_{CC} (Note 3)	V _{CC} - 2.1	-	4.5 to 5.5	-	100	360	-	450	-	490	μA

NOTE:

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

HCT Input Loading Table

INPUT	UNIT LOADS
All	1

NOTE: Unit Load is ΔI_{CC} limit specified in DC Electrical Specifications table, e.g., $360\mu A$ max at $25^{\circ}C$.

		TEST CONDITIONS	v _{cc}		25 ⁰ C		-40°C TO 85°C		-55°C TO 125°C		
PARAMETER	SYMBOL		(V)	MIN	ТҮР	MAX	MIN	MAX	MIN	MAX	UNITS
HC TYPES											
Propagation Delay Time	t _{PLH} , t _{PHL}	$C_L = 50 pF$	2	-	-	60	-	75	-	90	ns
Switch In to Out			4.5	-	-	12	-	15	-	18	ns
			9	-	-	8	-	11	-	13	ns
		C _L = 15pF	5	-	4	-	-	-	-	-	ns
Propagation Delay Time	t _{PZH} , t _{PZL}	C _L = 50pF	2	-	-	100	-	125	-	150	ns
Switch Turn On Delay			4.5	-	-	20	-	25	-	30	ns
			9	-	-	12	-	15	-	18	ns
		C _L = 15pF	5	-	8	-	-	-	-	-	ns
Propagation Delay Time Switch Turn Off Delay	^t PHZ ^{, t} PLZ	C _L = 50pF	2	-	-	150	-	190	-	225	ns
			4.5	-	-	30	-	38	-	45	ns
			9	-	-	24	-	30	-	36	ns
		C _L = 15pF	5	-	12	-	-	-	-	-	ns
Input (Control) Capacitance	Cl	-	-	-	-	10	-	10	-	10	pF
Power Dissipation Capacitance (Notes 4, 5)	C _{PD}	-	5	-	25	-	-	-	-	-	pF
HCT TYPES											
Propagation Delay Time	t _{PLH} , t _{PHL}	C _L = 50pF	4.5	-	-	12	-	15	-	18	ns
Switch In to Out		C _L = 15pF	5	-	4	-	-	-	-	-	ns
Propagation Delay Time	t _{PZH} , t _{PZL}	C _L = 50pF	4.5	-	-	24	-	30	-	36	ns
Switch Turn On Delay		C _L = 15pF	5	-	9	-	-	-	-	-	ns
Propagation Delay Time	t _{PHZ} , t _{PLZ}	$C_L = 50 pF$	4.5	-	-	35	-	44	-	53	ns
Switch Turn Off Delay		C _L = 15pF	5	-	14	-	-	-	-	-	ns
Input (Control) Capacitance	Cl	-	-	-	-	10	-	10	-	10	pF
Power Dissipation Capacitance (Notes 4, 5)	C _{PD}	-	5	-	38	-	-	-	-	-	pF

NOTES:

C_{PD} is used to determine the dynamic power consumption, per package.
 P_D = C_{PD} V_{CC}² f_i + Σ (C_L + C_S) V_{CC}² f_o where f_i = input frequency, f_o = output frequency, C_L = output load capacitance, C_S = switch capacitance, V_{CC} = supply voltage.

Analog Channel Specifications $T_A = 25^{\circ}C$

PARAMETER	TEST CONDITIONS	V _{CC} (V)	HC4066	CD74HCT4066	UNITS
Switch Frequency Response Bandwidth at -3dB Figure 2	Figure 5, Notes 6, 7	4.5	200	200	MHz
Cross Talk Between Any Two Switches Figure 3	Figure 4, Notes 7, 8	4.5	-72	-72	dB
Total Harmonic Distortion	Figure 6, 1kHz, V _{IS} = 4V _{P-P}	4.5	0.022	0.023	%
	Figure 6, 1kHz, V _{IS} = 8V _{P-P}	9	0.008	N/A	%

PARAMETER	TEST CONDITIONS	V _{CC} (V)	HC4066	CD74HCT4066	UNITS			
Control to Switch Feedthrough Noise	Figure 7	4.5	200	130	mV			
		9	550	N/A	mV			
Switch "OFF" Signal Feedthrough Figure 3	Figure 8, Notes 7, 8	4.5	-72	-72	dB			
Switch Input Capacitance, CS		-	5	5	pF			

Analog Channel Specifications $T_A = 25^{\circ}C$ (Continued)

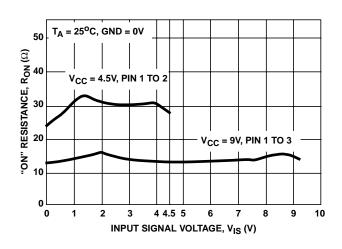
NOTES:

6. Adjust input level for 0dBm at output, f = 1MHz.

7. V_{IS} is centered at $V_{CC}/2$.

8. Adjust input for 0dBm at V_{IS} .

Typical Performance Curves



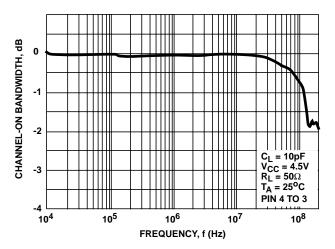


FIGURE 1. TYPICAL "ON" RESISTANCE vs INPUT SIGNAL VOLTAGE

FIGURE 2. SWITCH FREQUENCY RESPONSE, V_{CC} = 4.5V

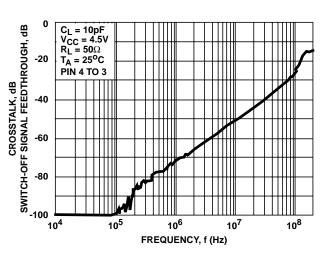
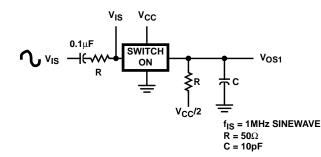
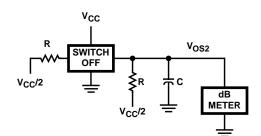


FIGURE 3. SWITCH-OFF SIGNAL FEEDTHROUGH AND CROSSTALK vs FREQUENCY, V_{CC} = 4.5V

Analog Test Circuits







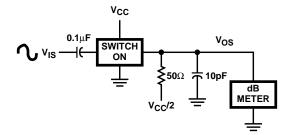


FIGURE 5. FREQUENCY RESPONSE TEST CIRCUIT

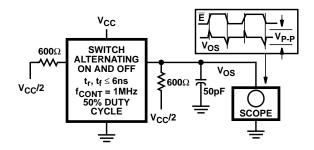
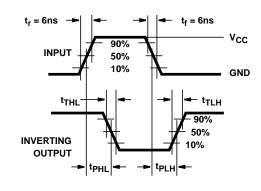
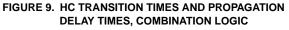


FIGURE 7. CONTROL-TO-SWITCH FEEDTHROUGH NOISE TEST CIRCUIT







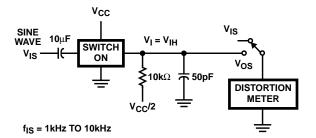
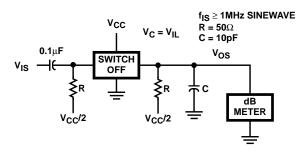


FIGURE 6. TOTAL HARMONIC DISTORTION TEST CIRCUIT





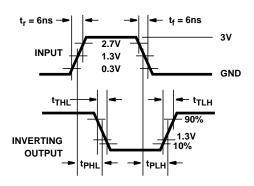


FIGURE 10. HCT TRANSITION TIMES AND PROPAGATION DELAY TIMES, COMBINATION LOGIC



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PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/ Ball Finish	MSL Peak Temp ⁽³⁾	Samples (Requires Login)
5962-8950701CA	ACTIVE	CDIP	J	14	1	TBD	Call TI	Call TI	
CD54HC4066F3A	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	
CD74HC4066E	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
CD74HC4066EE4	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
CD74HC4066M	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC4066M96	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC4066M96E4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC4066M96G4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC4066ME4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC4066MG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC4066MT	ACTIVE	SOIC	D	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC4066MTE4	ACTIVE	SOIC	D	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC4066MTG4	ACTIVE	SOIC	D	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC4066PW	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC4066PWE4	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC4066PWG4	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC4066PWR	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC4066PWRE4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	



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Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/ Ball Finish	MSL Peak Temp ⁽³⁾	Samples (Requires Login)
CD74HC4066PWRG4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC4066PWT	ACTIVE	TSSOP	PW	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC4066PWTE4	ACTIVE	TSSOP	PW	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC4066PWTG4	ACTIVE	TSSOP	PW	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HCT4066E	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
CD74HCT4066EE4	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
CD74HCT4066M	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HCT4066M96	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HCT4066M96E4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HCT4066M96G4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HCT4066ME4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HCT4066MG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HCT4066MT	ACTIVE	SOIC	D	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HCT4066MTE4	ACTIVE	SOIC	D	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HCT4066MTG4	ACTIVE	SOIC	D	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	

⁽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.

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OTHER QUALIFIED VERSIONS OF CD54HC4066, CD74HC4066, CD74HCT4066 :

• Catalog: CD74HC4066

• Automotive: CD74HCT4066-Q1

Military: CD54HC4066

NOTE: Qualified Version Definitions:

- Catalog TI's standard catalog product
- Automotive Q100 devices qualified for high-reliability automotive applications targeting zero defects
- Military QML certified for Military and Defense Applications

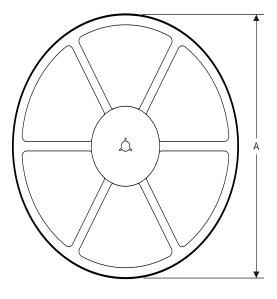
PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION

REEL DIMENSIONS

Texas Instruments

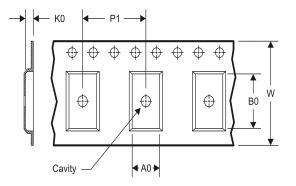




TAPE AND REEL INFORMATION

*All dimensions are nominal

TAPE DIMENSIONS



A0	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

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
CD74HC4066M96	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
CD74HC4066MT	SOIC	D	14	250	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
CD74HC4066PWR	TSSOP	PW	14	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1
CD74HC4066PWT	TSSOP	PW	14	250	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1
CD74HCT4066M96	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
CD74HCT4066MT	SOIC	D	14	250	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1

TEXAS INSTRUMENTS

www.ti.com

PACKAGE MATERIALS INFORMATION

14-Jul-2012



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
CD74HC4066M96	SOIC	D	14	2500	367.0	367.0	38.0
CD74HC4066MT	SOIC	D	14	250	367.0	367.0	38.0
CD74HC4066PWR	TSSOP	PW	14	2000	367.0	367.0	35.0
CD74HC4066PWT	TSSOP	PW	14	250	367.0	367.0	35.0
CD74HCT4066M96	SOIC	D	14	2500	367.0	367.0	38.0
CD74HCT4066MT	SOIC	D	14	250	367.0	367.0	38.0

J (R-GDIP-T**) 14 LEADS SHOWN

CERAMIC DUAL IN-LINE PACKAGE



NOTES: A. All linear dimensions are in inches (millimeters).

- B. This drawing is subject to change without notice.
- C. This package is hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only on press ceramic glass frit seal only.
- E. Falls within MIL STD 1835 GDIP1-T14, GDIP1-T16, GDIP1-T18 and GDIP1-T20.

N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



NOTES:

- A. All linear dimensions are in inches (millimeters).B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- \triangle The 20 pin end lead shoulder width is a vendor option, either half or full width.



D (R-PDSO-G14)

PLASTIC SMALL OUTLINE



NOTES: A. All linear dimensions are in inches (millimeters).

- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.006 (0,15) each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0.017 (0,43) each side.
- E. Reference JEDEC MS-012 variation AB.





NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 is recommended for alternate designs.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
 E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



PW (R-PDSO-G14)

PLASTIC SMALL OUTLINE



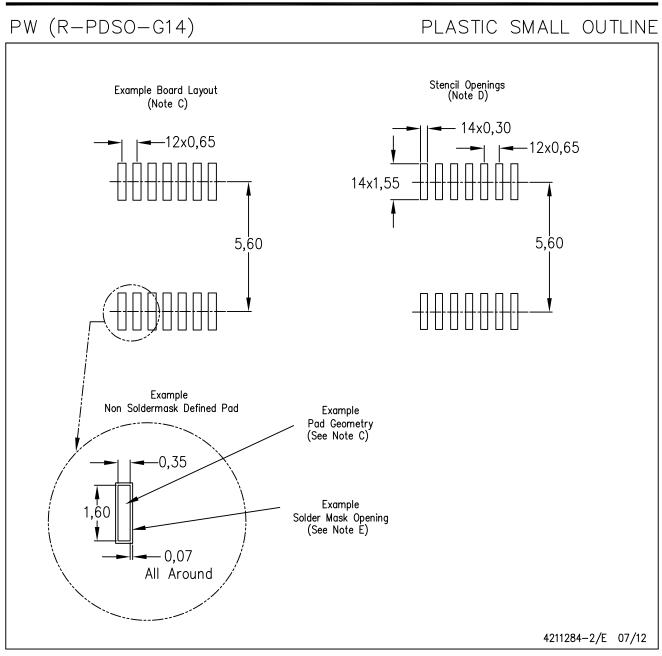
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Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0,15 each side.

Body width does not include interlead flash. Interlead flash shall not exceed 0,25 each side.

E. Falls within JEDEC MO-153





NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 is recommended for alternate designs.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



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