

Features

- Wide Analog-Input-Voltage Range 0V - 10V
- Low "ON" Resistance
 - $V_{CC} = 4.5V$ 25Ω
 - $V_{CC} = 9V$ 15Ω
- 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}

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

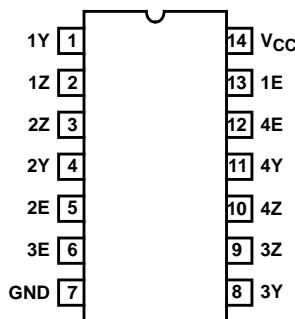
PART NUMBER	TEMP. RANGE (°C)	PACKAGE
CD54HC4066F3A	-55 to 125	14 Ld CERDIP
CD74HC4066E	-55 to 125	14 Ld PDIP
CD74HC4066M	-55 to 125	14 Ld SOIC
CD74HC4066MT	-55 to 125	14 Ld SOIC
CD74HC4066M96	-55 to 125	14 Ld SOIC
CD74HC4066PW	-55 to 125	14 Ld TSSOP
CD74HC4066PWR	-55 to 125	14 Ld TSSOP
CD74HC4066PWT	-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.

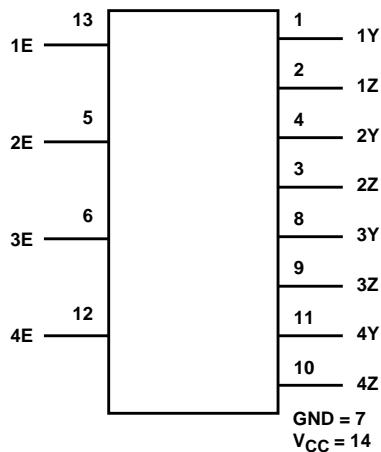
Pinout

CD54HC4066 (CERDIP)
 CD74HC4066 (PDIP, SOIC, TSSOP)
 CD74HCT4066 (PDIP, SOIC)

TOP VIEW



Functional Diagram

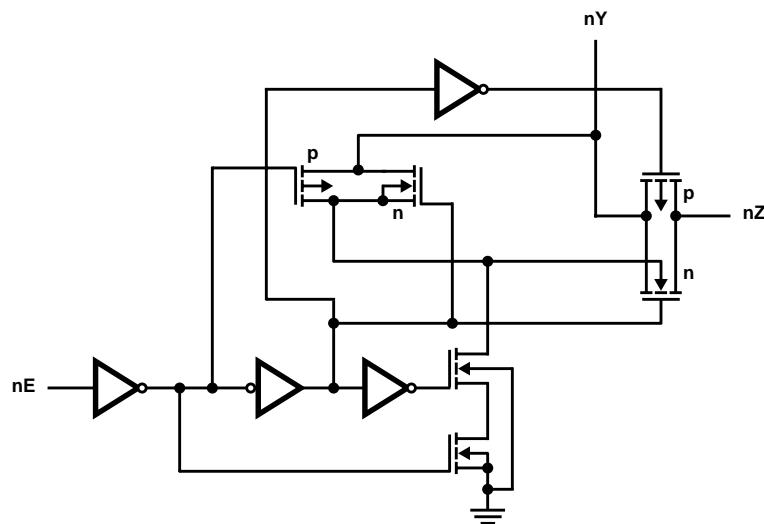


TRUTH TABLE

INPUT nE	SWITCH
L	Off
H	On

H= High Level
L= Low Level

Logic Diagram



Absolute Maximum Ratings

DC Supply Voltage, V_{CC}	
HCT Types	-0.5V to 7V
HC Types	-0.5V to 10.5V
DC Input Diode Current, I_{IK}	
For $V_I < -0.5V$ or $V_I > V_{CC} + 0.5V$	$\pm 20mA$
DC Switch Current, I_O (Note 1)	
For $-0.5V < V_O < V_{CC} + 0.5V$	$\pm 25mA$
DC Output Diode Current, I_{OK}	
For $V_O < -0.5V$ or $V_O > V_{CC} + 0.5V$	$\pm 20mA$
DC Output Source or Sink Current per Output Pin, I_O	
For $V_O > -0.5V$ or $V_O < V_{CC} + 0.5V$	$\pm 25mA$
DC V_{CC} or Ground Current, I_{CC}	$\pm 50mA$

Thermal Information

Thermal Resistance (Typical, Note 2)	θ_{JA}
E (PDIP) Package	$80^{\circ}C/W$
M (SOIC) Package	$86^{\circ}C/W$
PW (TSSOP) Package	$113^{\circ}C/W$
Maximum Junction Temperature (Hermetic Package or Die)	$175^{\circ}C$
Maximum Junction Temperature (Plastic Package)	$150^{\circ}C$
Maximum Storage Temperature Range	$-65^{\circ}C$ to $150^{\circ}C$
Maximum Lead Temperature (Soldering 10s)	$300^{\circ}C$
(SOIC - Lead Tips Only)	

Operating Conditions

Temperature Range, T_A	-55°C to 125°C
Supply Voltage Range, V_{CC}	
HC Types	.2V to 10V
HCT Types	.45V to 5.5V
DC Input or Output Voltage, V_I, V_O	0V to V_{CC}
Input Rise and Fall Time	
2V	1000ns (Max)
4.5V	500ns (Max)
6V	400ns (Max)

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.

DC Electrical Specifications

PARAMETER	SYMBOL	TEST CONDITIONS		V_{CC} (V)	25°C			-40°C TO 85°C		-55°C TO 125°C		UNITS
		V_I (V)	V_{IS} (V)		MIN	TYP	MAX	MIN	MAX	MIN	MAX	
HC TYPES												
High Level Input Voltage	V_{IH}	-	-	2	1.5	-	-	1.5	-	1.5	-	V
				4.5	3.15	-	-	3.15	-	3.15	-	V
				9	6.3	-	-	6.3	-	6.3	-	V
Low Level Input Voltage	V_{IL}	-	-	2	-	-	0.5	-	0.5	-	0.5	V
				4.5	-	-	1.35	-	1.35	-	1.35	V
				9	-	-	2.7	-	2.7	-	2.7	V
Input Leakage Current (Any Control)	I_{IL}	V_{CC} or GND	-	10	-	-	± 0.1	-	± 1	-	± 1	μA
Off-Switch Leakage Current	I_Z	V_{IL}	V_{CC} or GND	10	-	-	± 0.1	-	± 1	-	± 1	μA

CD54HC4066, CD74HC4066, CD74HCT4066

DC Electrical Specifications (Continued)

PARAMETER	SYMBOL	TEST CONDITIONS		V _{CC} (V)	25°C			-40°C TO 85°C		-55°C TO 125°C		UNITS
		V _I (V)	V _{IS} (V)		MIN	TYP	MAX	MIN	MAX	MIN	MAX	
"ON" Resistance I _O = 1mA (Figure 1)	R _{ON}	V _{CC}	V _{CC} or GND	4.5	-	25	80	-	106	-	128	Ω
				6	-	20	75	-	94	-	113	Ω
				9	-	15	60	-	78	-	95	Ω
			V _{CC} to GND	4.5	-	35	95	-	118	-	142	Ω
				6	-	24	84	-	105	-	126	Ω
				9	-	16	70	-	88	-	105	Ω
		ΔR _{ON}	V _{CC}	-	4.5	-	1	-	-	-	-	Ω
				6	-	0.75	-	-	-	-	-	Ω
				9	-	0.5	-	-	-	-	-	Ω
Quiescent Device Current	I _{CC}	V _{CC} or GND	-	6	-	-	2	-	20	-	40	μA
				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)	I _{IL}	V _{CC} or GND	-	5.5	-	-	±0.1	-	±1	-	±1	μA
Off-Switch Leakage Current	I _Z	V _{IL}	V _{CC} or GND	5.5	-	-	±0.1	-	±1	-	±1	μA
"ON" Resistance I _O = 1mA (Figure 1)	R _{ON}	V _{CC}	V _{CC} or GND	4.5	-	25	80	-	106	-	128	Ω
				4.5	-	35	95	-	118	-	142	Ω
"ON" Resistance Between Any Two Switches	ΔR _{ON}	V _{CC}	-	4.5	-	1	-	-	-	-	-	Ω
Quiescent Device Current	I _{CC}	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., 360μA max at 25°C.

CD54HC4066, CD74HC4066, CD74HCT4066

Switching Specifications Input $t_r, t_f = 6\text{ns}$

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

NOTES:

4. C_{PD} is used to determine the dynamic power consumption, per package.
5. P_D = C_{PD} V_{CC}² f_i + $\sum (C_L + C_S) V_{CC}^2 f_0$ where f_i = input frequency, f₀ = output frequency, C_L = output load capacitance, C_S = switch capacitance, V_{CC} = supply voltage.

Analog Channel Specifications T_A = 25°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	%

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

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, C _S		-	5	5	pF

NOTES:

6. Adjust input level for 0dBm at output, $f = 1\text{MHz}$.
7. V_{IS} is centered at V_{CC}/2.
8. Adjust input for 0dBm at V_{IS}.

Typical Performance Curves

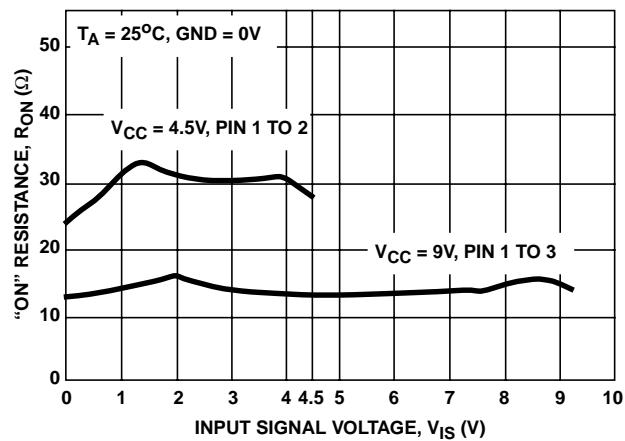


FIGURE 1. TYPICAL "ON" RESISTANCE vs INPUT SIGNAL VOLTAGE

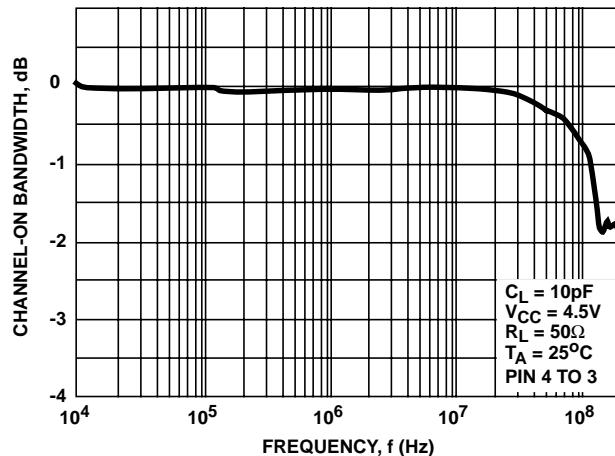


FIGURE 2. SWITCH FREQUENCY RESPONSE, V_{CC} = 4.5V

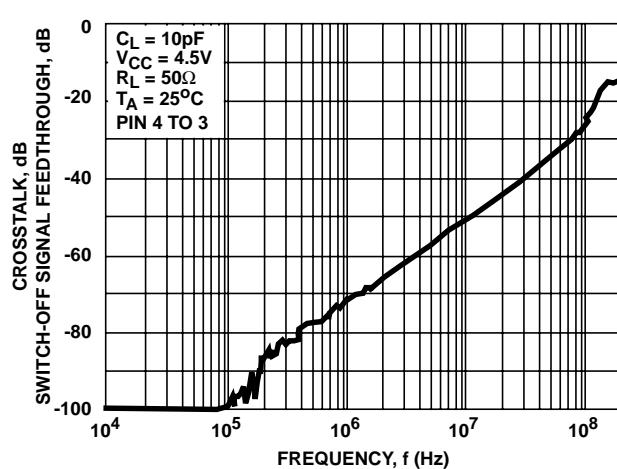


FIGURE 3. SWITCH-OFF SIGNAL FEEDTHROUGH AND CROSSTALK vs FREQUENCY, V_{CC} = 4.5V

Analog Test Circuits

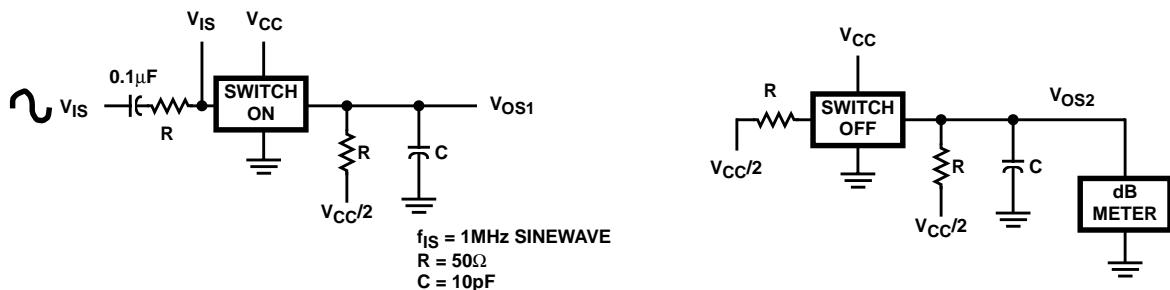


FIGURE 4. CROSSTALK BETWEEN TWO SWITCHES TEST CIRCUIT

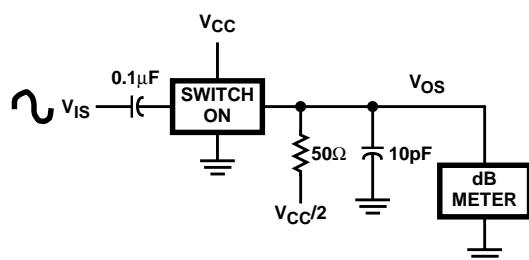


FIGURE 5. FREQUENCY RESPONSE TEST CIRCUIT

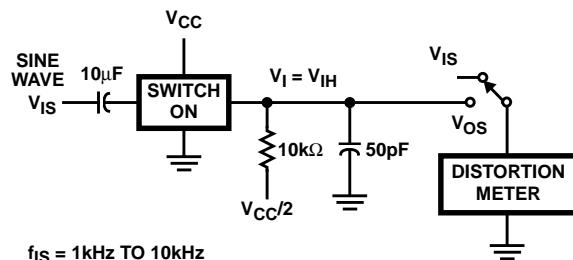


FIGURE 6. TOTAL HARMONIC DISTORTION TEST CIRCUIT

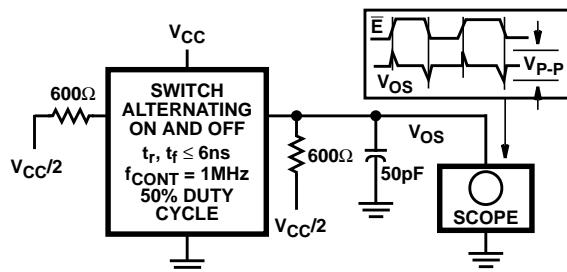


FIGURE 7. CONTROL-TO-SWITCH FEEDTHROUGH NOISE TEST CIRCUIT

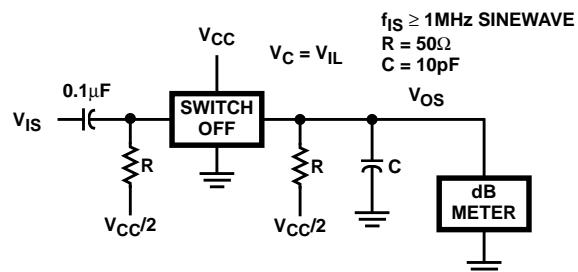


FIGURE 8. SWITCH OFF SIGNAL FEEDTHROUGH

Test Circuits and Waveforms

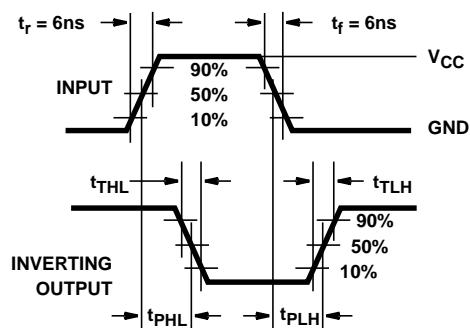


FIGURE 9. HC TRANSITION TIMES AND PROPAGATION DELAY TIMES, COMBINATION LOGIC

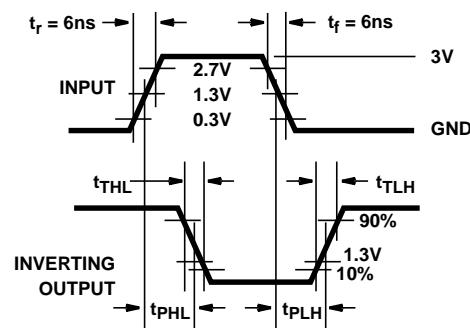


FIGURE 10. HCT TRANSITION TIMES AND PROPAGATION DELAY TIMES, COMBINATION LOGIC

PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
5962-8950701CA	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type
CD54HC4066F3A	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type
CD74HC4066E	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
CD74HC4066EE4	ACTIVE	PDIP	N	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
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	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
CD74HCT4066EE4	ACTIVE	PDIP	N	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

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
no Sb/Br)								
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.

⁽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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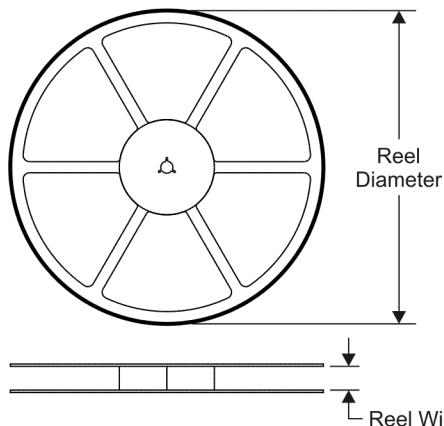
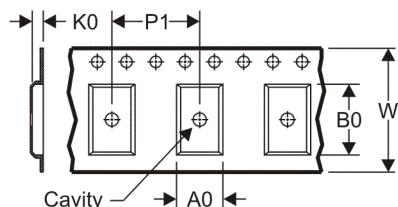
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OTHER QUALIFIED VERSIONS OF CD54HC4066, CD74HC4066, CD74HCT4066 :

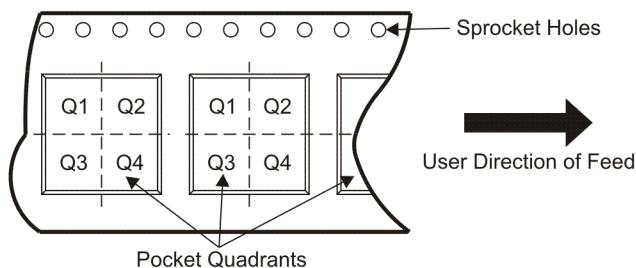
- Automotive: [CD74HCT4066-Q1](#)

NOTE: Qualified Version Definitions:

- Automotive - Q100 devices qualified for high-reliability automotive applications targeting zero defects

TAPE AND REEL INFORMATION
REEL DIMENSIONS

TAPE DIMENSIONS


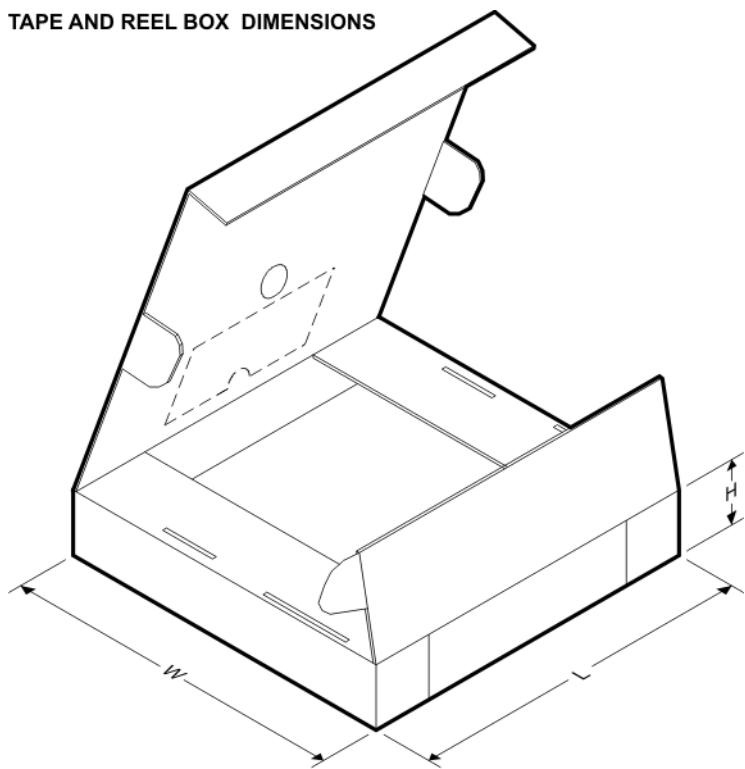
A0	Dimension designed to accommodate the component width
B0	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE


*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	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
CD74HC4066PWR	TSSOP	PW	14	2000	330.0	12.4	7.0	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

TAPE AND REEL BOX DIMENSIONS



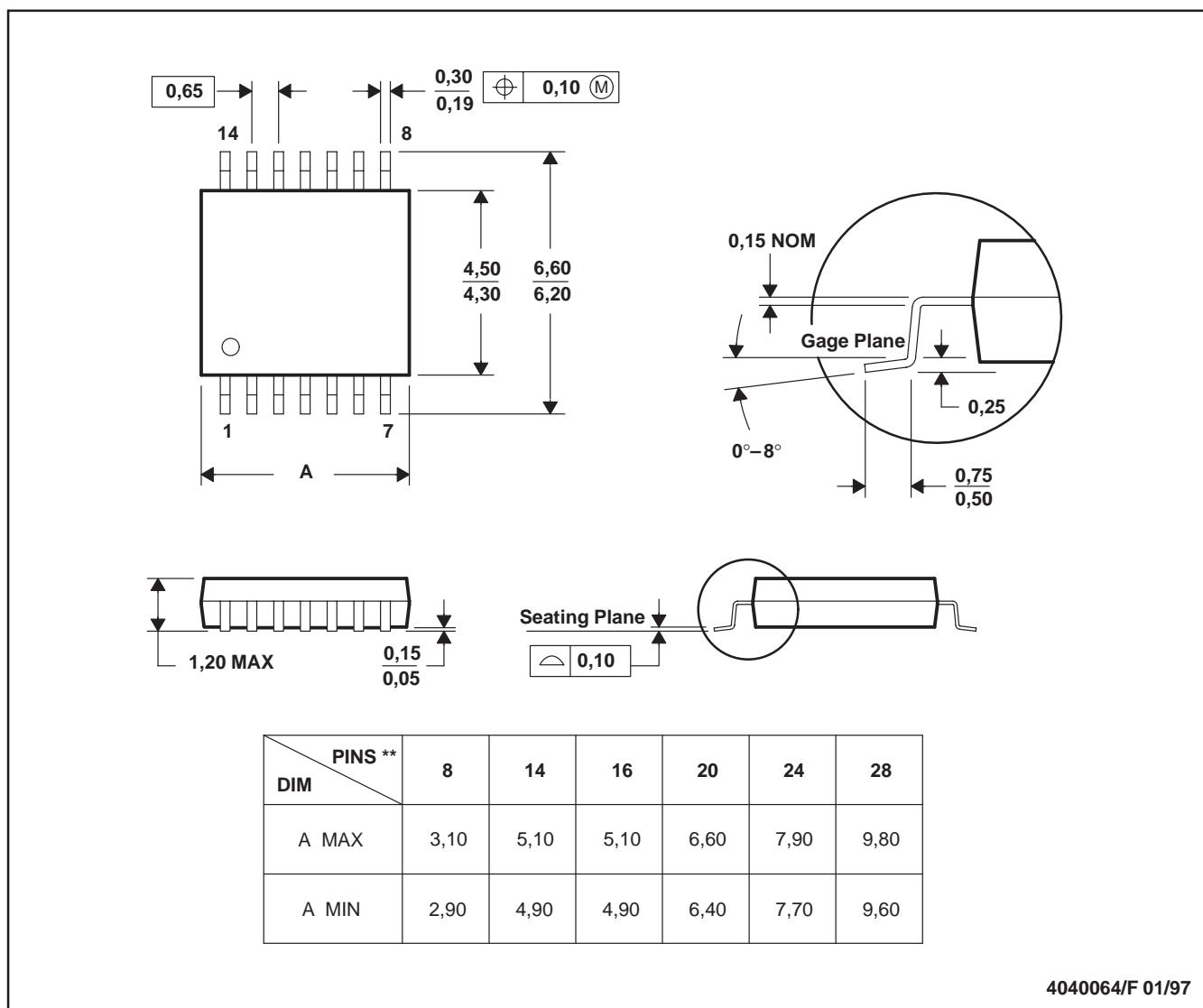
*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
CD74HC4066M96	SOIC	D	14	2500	346.0	346.0	33.0
CD74HC4066PWR	TSSOP	PW	14	2000	346.0	346.0	29.0
CD74HCT4066M96	SOIC	D	14	2500	346.0	346.0	33.0

PW (R-PDSO-G^{**})

PLASTIC SMALL-OUTLINE PACKAGE

14 PINS SHOWN



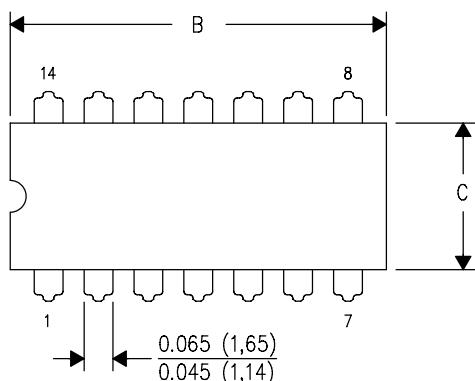
NOTES:

- All linear dimensions are in millimeters.
- This drawing is subject to change without notice.
- Body dimensions do not include mold flash or protrusion not to exceed 0,15.
- Falls within JEDEC MO-153

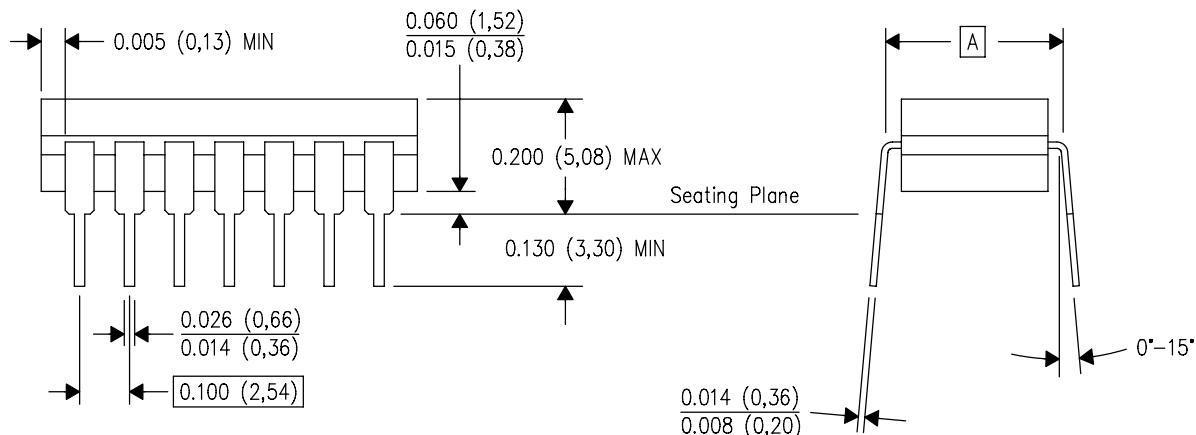
J (R-GDIP-T**)

14 LEADS SHOWN

CERAMIC DUAL IN-LINE PACKAGE



PINS ** DIM	14	16	18	20
A	0.300 (7,62) BSC	0.300 (7,62) BSC	0.300 (7,62) BSC	0.300 (7,62) BSC
B MAX	0.785 (19,94)	.840 (21,34)	0.960 (24,38)	1.060 (26,92)
B MIN	—	—	—	—
C MAX	0.300 (7,62)	0.300 (7,62)	0.310 (7,87)	0.300 (7,62)
C MIN	0.245 (6,22)	0.245 (6,22)	0.220 (5,59)	0.245 (6,22)

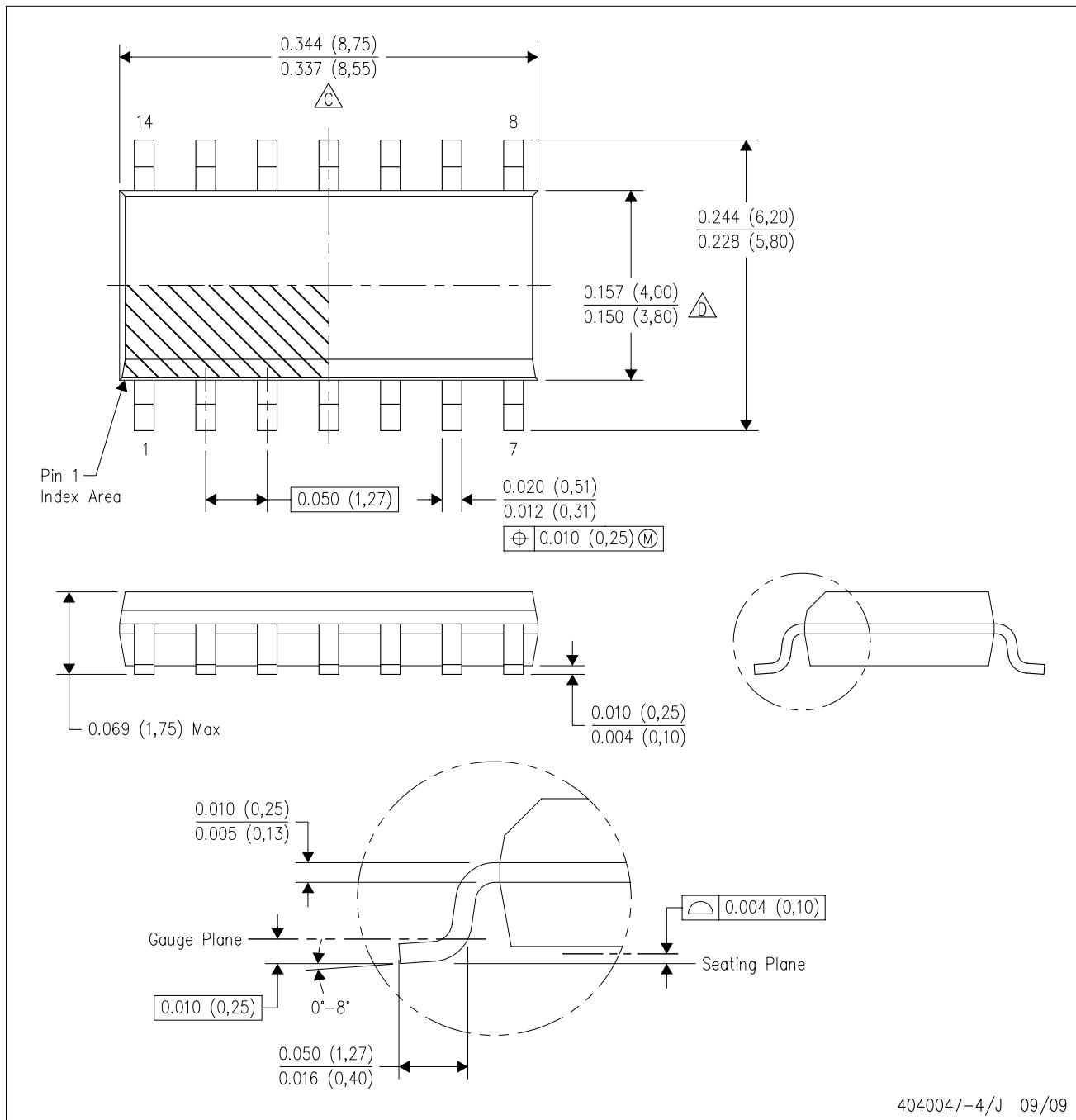


4040083/F 03/03

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.

D (R-PDSO-G14)

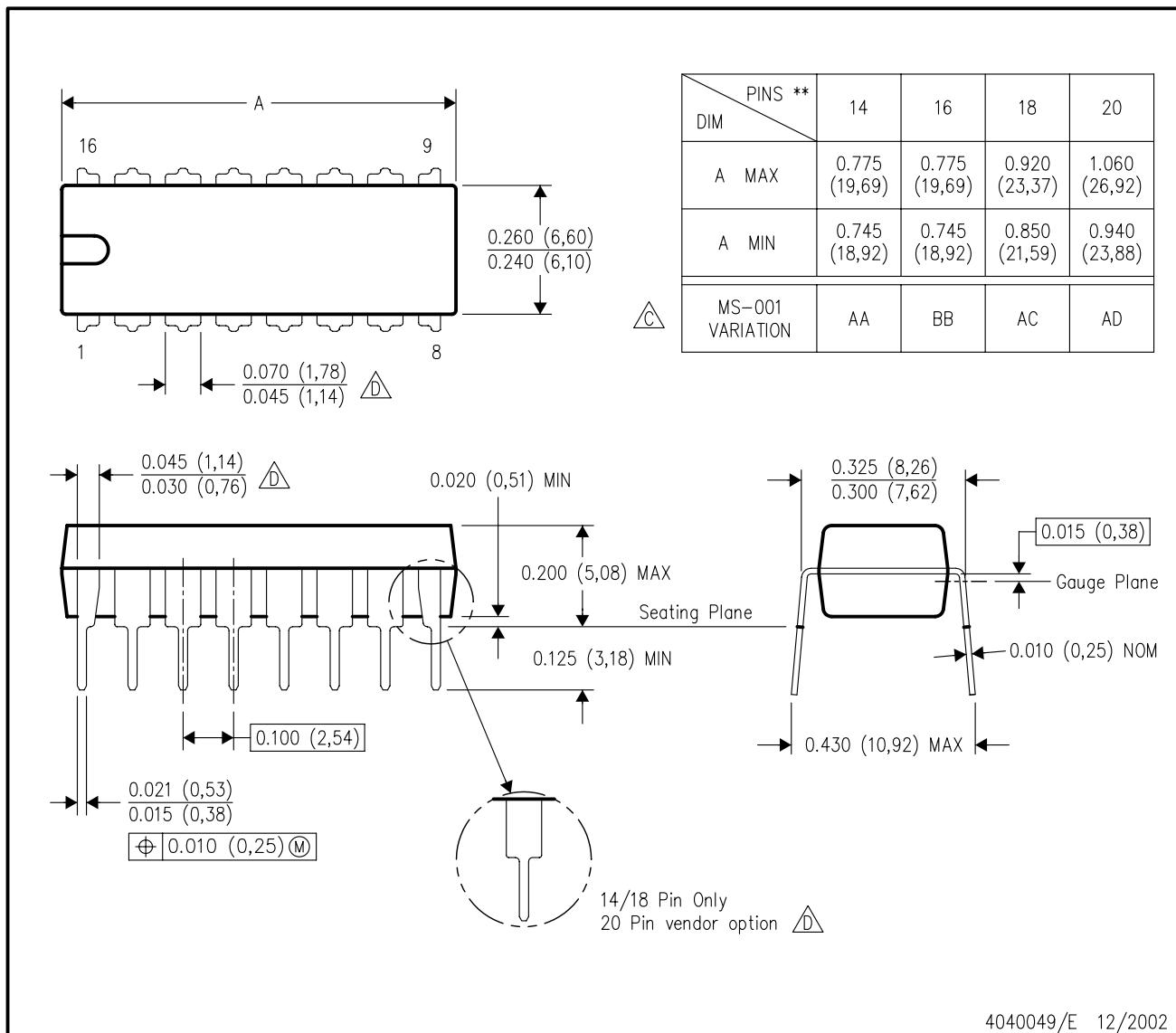
PLASTIC SMALL-OUTLINE PACKAGE



N (R-PDIP-T**)

16 PINS SHOWN

PLASTIC DUAL-IN-LINE PACKAGE



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