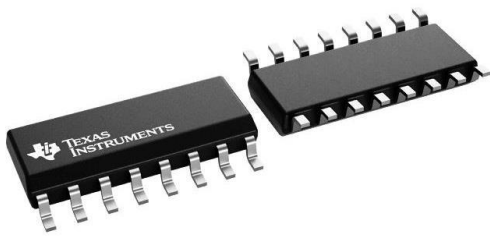


CD4521BEE4 Datasheet

www.digi-electronics.com



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	CD4521BEE4-DG
Manufacturer	Texas Instruments
Manufacturer Product Number	CD4521BEE4
Description	IC DIVIDER BY 2 24-BIT 16DIP
Detailed Description	Counter IC Divide-by-2 1 Element 24 Bit Negative Edge 16-PDIP



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

CD4521BEE4

Series:

4000B

Logic Type:

Divide-by-2

Number of Elements:

1

Reset:

Asynchronous

Count Rate:

13 MHz

Voltage - Supply:

3 V ~ 18 V

Mounting Type:

Through Hole

Supplier Device Package:

16-PDIP

Manufacturer:

Texas Instruments

Product Status:

Active

Direction:

-

Number of Bits per Element:

24

Timing:

-

Trigger Type:

Negative Edge

Operating Temperature:

-55°C ~ 125°C (TA)

Package / Case:

16-DIP (0.300", 7.62mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8542.39.0001

Moisture Sensitivity Level (MSL):

Not Applicable

ECCN:

EAR99

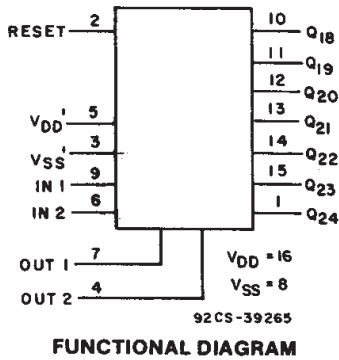


Data sheet acquired from Harris Semiconductor
SCHS078C -- Revised October 2003

CD4521B Types

CMOS 24-Stage Frequency Divider

High-Voltage Types (20-Volt Rating)

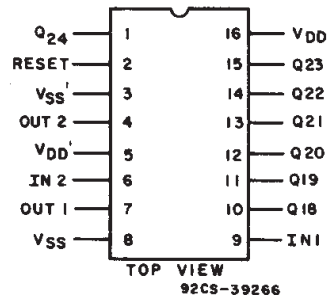


Features:

- Reset disables the RC oscillator for low-power standby condition
- VDD' and VSS' pins are brought out from the crystal oscillator to allow use of external resistors for low-power operation
- Maximum input current of 1 µA at 18 V over full package-temperature range: 100 nA at 18 V and 25°C
- Common reset
- 100% tested for 20-V quiescent current
- 5, 10 and 15 V parametric ratings
- Standardized symmetrical output characteristics
- Meets all requirements of JEDEC Standard No. 13B, "Standard Specifications for Description of 'B' Series CMOS Devices"

■ CD4521B consists of an oscillator section and 24 ripple-carry binary counter stages. The oscillator configuration (using IN1) allows design of either RC or crystal oscillator circuits. IN1 should be tied either HIGH or LOW when not in use. A HIGH on the RESET causes the counter to go to the all-0's state and disables the oscillator. The count is advanced on the negative transition of IN1 (and IN2). A time-saving test mode is described in the Functional Test Sequence Table and in Fig. 6.

The CD4521B types are supplied in 16-lead dual-in-line plastic packages (E suffix), 16-lead small-outline packages (M, M96, MT, and NSR suffixes), and 16-lead thin shrink small-outline packages (PW and PWR suffixes).



TERMINAL ASSIGNMENT

OUTPUT	COUNT CAPACITY
Q18	2 ¹⁸ = 262,144
Q19	2 ¹⁹ = 524,288
Q20	2 ²⁰ = 1,048,576
Q21	2 ²¹ = 2,097,152
Q22	2 ²² = 4,194,304
Q23	2 ²³ = 8,388,608
Q24	2 ²⁴ = 16,777,216

MAXIMUM RATINGS, Absolute-Maximum Values:

- DC SUPPLY-VOLTAGE RANGE, (VDD)
Voltages referenced to VSS Terminal) -0.5V to +20V
- INPUT VOLTAGE RANGE, ALL INPUTS -0.5V to VDD +0.5V
- DC INPUT CURRENT, ANY ONE INPUT ±10mA
- POWER DISSIPATION PER PACKAGE (PD):
For TA = -55°C to +100°C 500mW
For TA = +100°C to +125°C Derate Linearly at 12mW/°C to 200mW
- DEVICE DISSIPATION PER OUTPUT TRANSISTOR
FOR TA = FULL PACKAGE-TEMPERATURE RANGE (All Package Types) 100mW
- OPERATING-TEMPERATURE RANGE (TA) -55°C to +125°C
- STORAGE TEMPERATURE RANGE (Tstg) -65°C to +150°C
- LEAD TEMPERATURE (DURING SOLDERING):
At distance 1/16 ± 1/32 inch (1.59 ± 0.79mm) from case for 10s max +265°C

CD4521B Types

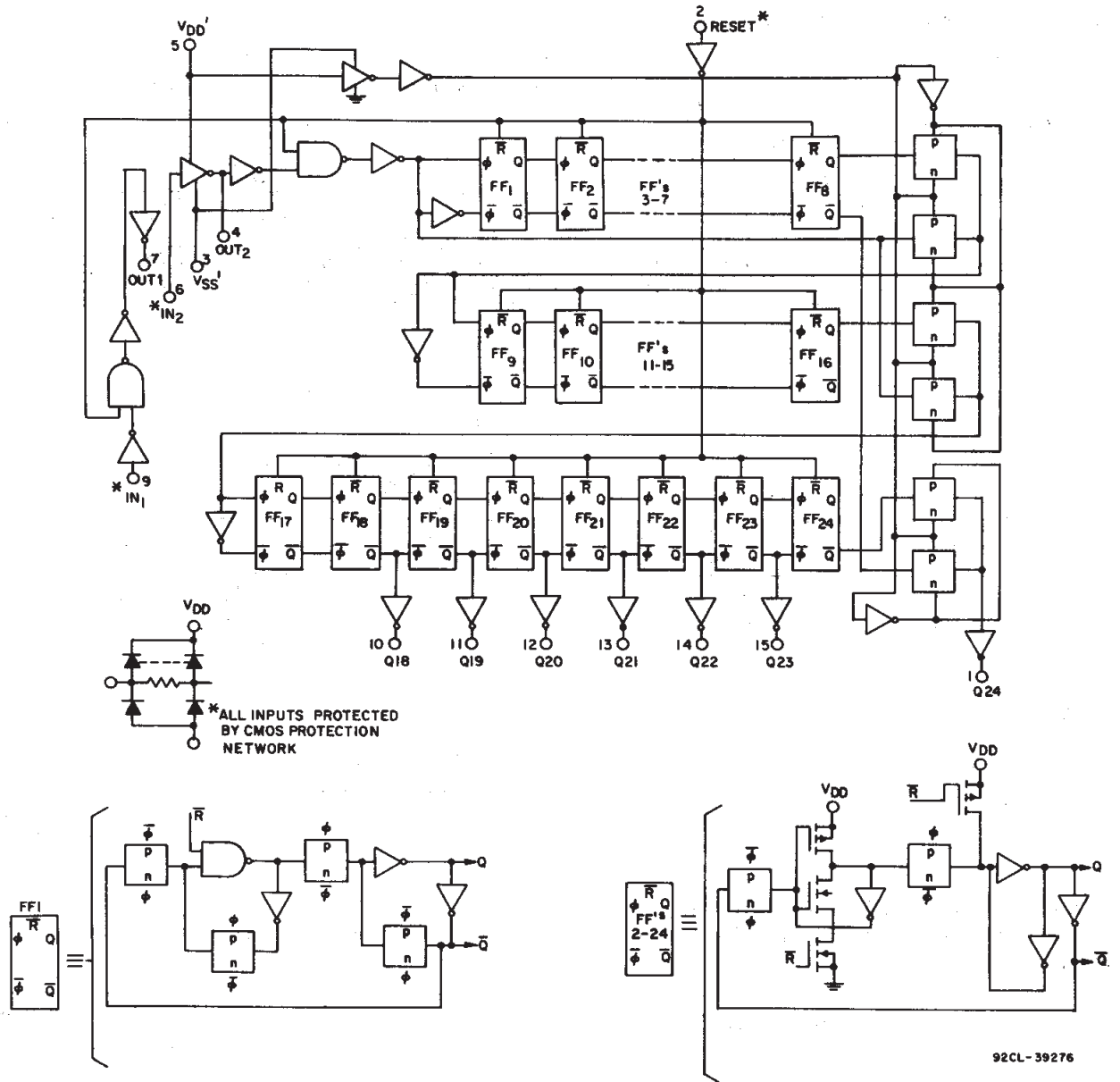


Fig. 1 - Logic diagram for CD4521B.

3
COMMERCIAL CMOS
HIGH VOLTAGE ICs

CD4521B Types**STATIC ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC	CONDITIONS			LIMITS AT INDICATED TEMPERATURES (°C)							UNITS
	V _O (V)	V _{IN} (V)	V _{DD} (V)	-55	-40	+85	+125	+25			
								Min.	Typ.	Max.	
Quiescent Device Current, I _{DD} Max.	—	0, 5	5	5	5	150	150	—	0.04	5	μA
	—	0, 10	10	10	10	300	300	—	0.04	10	
	—	0, 15	15	20	20	600	600	—	0.04	20	
	—	0, 20	20	100	100	3000	3000	—	0.08	100	
Output Low (Sink) Current, I _{OL} Min.	0.4	0, 5	5	0.64	0.61	0.42	0.36	0.51	1	—	mA
	0.5	0, 10	10	1.6	1.5	1.1	0.9	1.3	2.6	—	
	1.5	0, 15	15	4.2	4	2.8	2.4	3.4	6.8	—	
Output High (Source) Current, I _{OH} Min.	4.6	0, 5	5	-0.64	-0.61	-0.42	-0.36	-0.51	-1	—	mA
	2.5	0, 5	5	-2	-1.8	-1.3	-1.15	-1.6	-3.2	—	
	9.5	0, 10	10	-1.6	-1.5	-1.1	-0.9	-1.3	-2.6	—	
	13.5	0, 15	15	-4.2	-4	-2.8	-2.4	-3.4	-6.8	—	
Output Voltage: Low-Level, V _{OL} Max.	—	0, 5	5	0.05				—	0	0.05	V
	—	0, 10	10	0.05				—	0	0.05	
	—	0, 15	15	0.05				—	0	0.05	
Output Voltage: High-Level, V _{OH} Min.	—	0, 5	5	4.95				4.95	5	—	V
	—	0, 10	10	9.95				9.95	10	—	
	—	0, 15	15	14.95				14.95	15	—	
Input Low Voltage, V _{IL} Max.	0.5, 4.5	—	5	1.5				—	—	1.5	V
	1, 9	—	10	3				—	—	3	
	1.5, 13.5	—	15	4				—	—	4	
Input High Voltage, V _{IH} Min.	0.5, 4.5	—	5	3.5				3.5	—	—	V
	1, 9	—	10	7				7	—	—	
	1.5, 13.5	—	15	11				11	—	—	
Input Current, I _{IN} Max.	—	0, 18	18	±0.1	±0.1	±1	±1	—	±10 ⁻⁵	±0.1	μA

RECOMMENDED OPERATING CONDITIONS

For maximum reliability, nominal operating conditions should be selected so that operating is always within the following ranges:

CHARACTERISTIC	V _{DD} (V)	LIMITS		UNITS
		Min.	Max.	
Supply-Voltage Range (For T _A = Full Package-Temperature Range)	—	3	18	V
Input Pulse Width	5	340	—	ns
	10	150	—	
	15	120	—	
Reset Pulse Width	5	180	—	ns
	10	80	—	
	15	50	—	
Input Pulse Frequency	5	—	2	MHz
	10	—	5	
	15	—	6.5	
Input Pulse Rise or Fall Time	5	—	15	μs
	10	—	15	
	15	—	15	
R _T Operating Range	5	1K	10M	Ω
	10	1K	10M	
	15	1K	10M	
C _T Operating Range	5	15p	10M	F
	10	15p	10M	
	15	15p	10M	

CD4521B Types

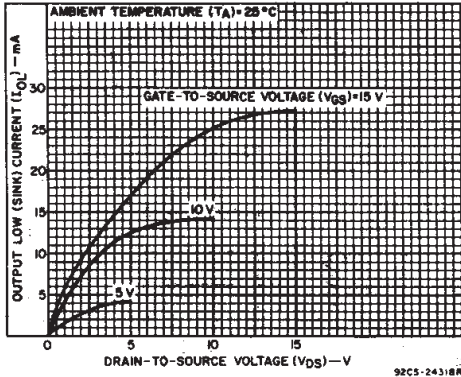


Fig. 2 - Typical output low (sink) current characteristics.

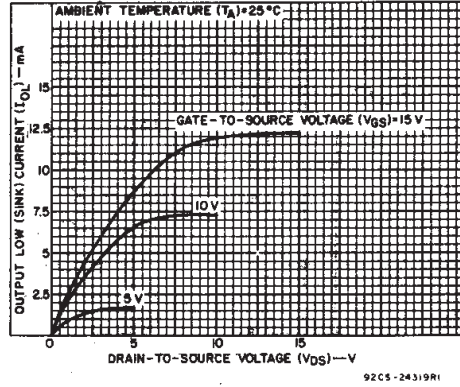


Fig. 3 - Minimum output low (sink) current characteristics.

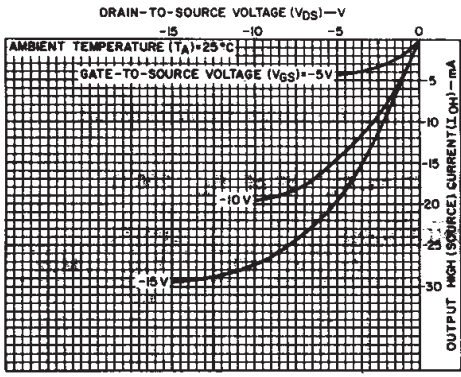


Fig. 4 - Typical output high (source) current characteristics.

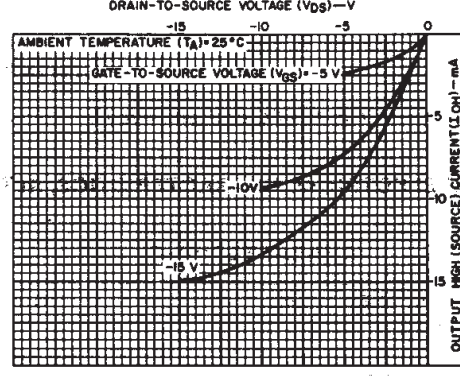


Fig. 5 - Minimum output high (source) current characteristics.

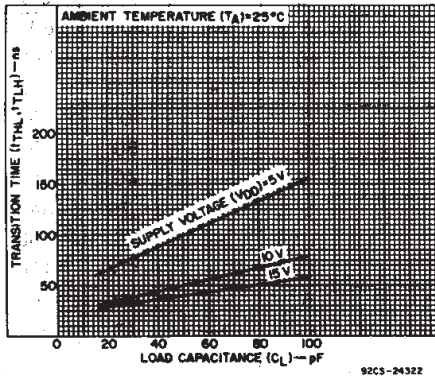


Fig. 6 - Typical transition time as a function of load capacitance.

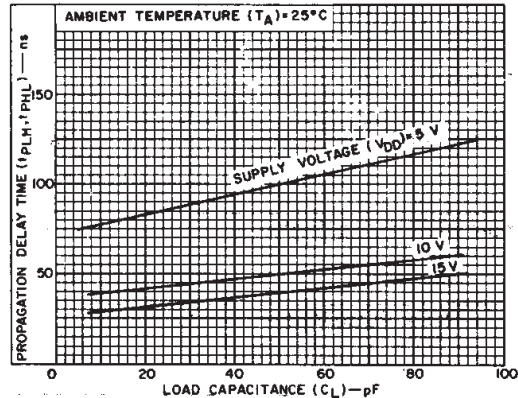


Fig. 7 - Typical propagation delay time (Q_n to $Q_n + 1$) as a function of load capacitance.

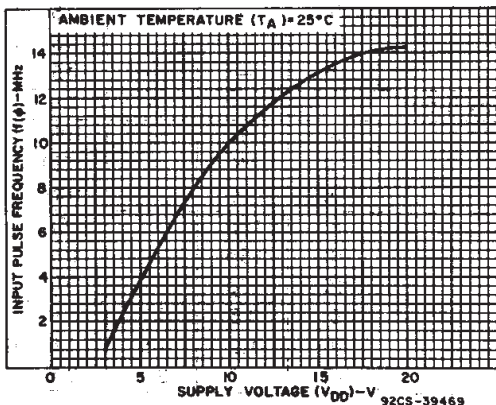


Fig. 8 - Typical maximum input pulse frequency vs. supply voltage.

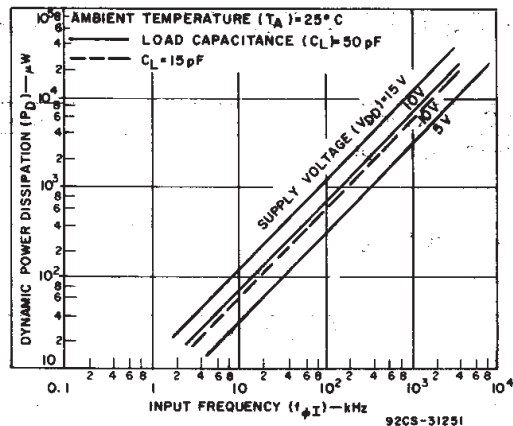


Fig. 9 - Typical dynamic power dissipation as a function of input frequency.

3
COMMERCIAL CMOS
HIGH VOLTAGE ICs

CD4521B Types

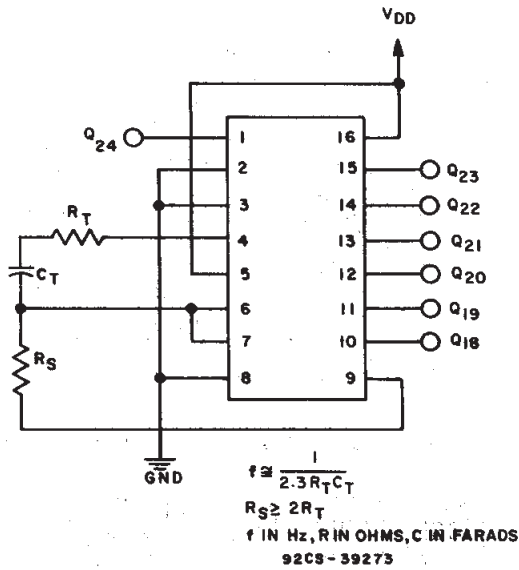


Fig. 10 - RC oscillator circuit.

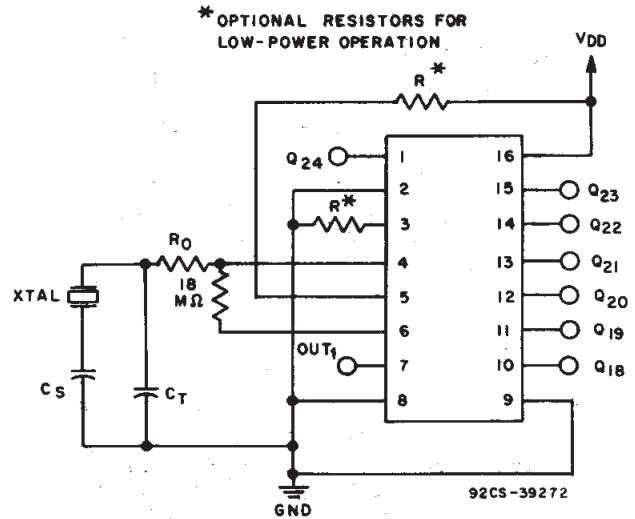


Fig. 11 - Crystal oscillator circuit.

DYNAMIC ELECTRICAL CHARACTERISTICS, At T_A = 25° C; Input t_r, t_f = 20 ns, C_L = 50 pF, R_L = 200 Ω

CHARACTERISTIC	TEST CONDITIONS	LIMITS			UNITS		
		V _{DD} (V)	Min.	Typ.		Max.	
Propagation Delay Time: Input to Q18	t _{PLH} , t _{PHL}	5	—	4.5	9	μs	
		10	—	1.7	3.5		
		15	—	1.3	2.7		
Input to Q24	t _{PLH} , t _{PHL}	5	—	6	12		
		10	—	2.2	4.5		
		15	—	1.7	3.5		
Reset to Qn	t _{PLH} , t _{PHL}	5	—	400	800	ns	
		10	—	170	340		
		15	—	120	240		
Transition Time*	t _{THL} , t _{TLH}	5	—	100	200		
		10	—	50	100		
		15	—	40	80		
Minimum Input Pulse Width	t _{wφ}	5	—	170	340	ns	
		10	—	75	150		
		15	—	60	120		
Minimum Reset Pulse Width	t _{w(R)}	5	—	90	180		ns
		10	—	40	80		
		15	—	25	50		
Maximum Input Pulse Frequency	f _φ	5	2	4	—	MHz	
		10	5	10	—		
		15	6.5	13	—		
Input Pulse Rise or Fall Time	t _{rφ} , t _{fφ}	5	—	—	15		μs
		10	—	—	15		
		15	—	—	15		
Input Capacitance	C _{IN}	Any Input	—	5	7.5	pF	
R _T Operating Range	R _T	5	1K	—	10M	Ω	
		10	1K	—	10M		
		15	1K	—	10M		
C _T Operating Range	C _T	5	15p	—	10μ	F	
		10	15p	—	10μ		
		15	15p	—	10μ		
Maximum Oscillator Frequency	R _T =1 KΩ C _T =15 pF R _S =30 KΩ	5	0.5	0.7	0.9	MHz	
		10	1.2	1.5	1.8		
		15	1.7	2.1	2.5		

*Not applicable for pin 4 (OUT₂).

CD4521B Types

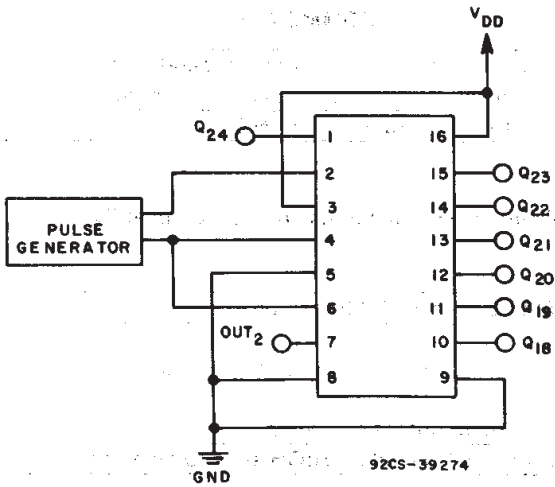


Fig. 12 - Functional test circuit.

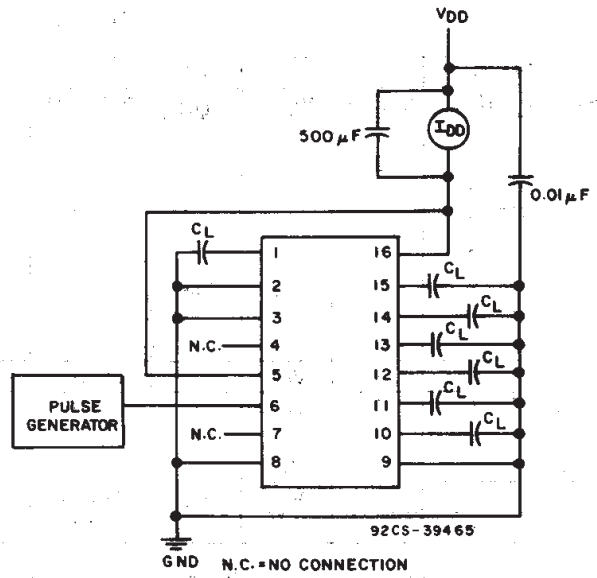


Fig. 13 - Dynamic power dissipation test circuit.

3
COMMERCIAL CMOS
HIGH VOLTAGE ICs

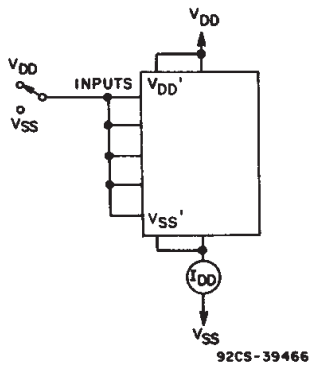


Fig. 14 - Quiescent device current.

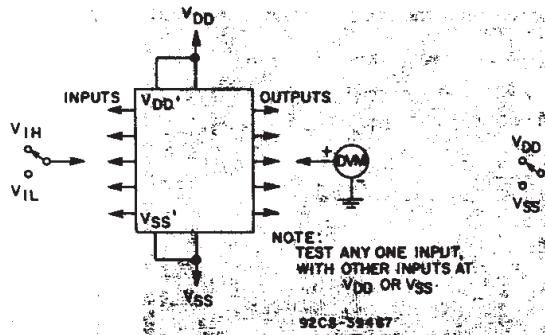


Fig. 15 - Input voltage.

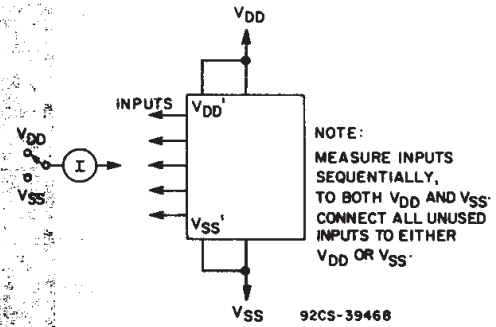


Fig. 16 - Input current.

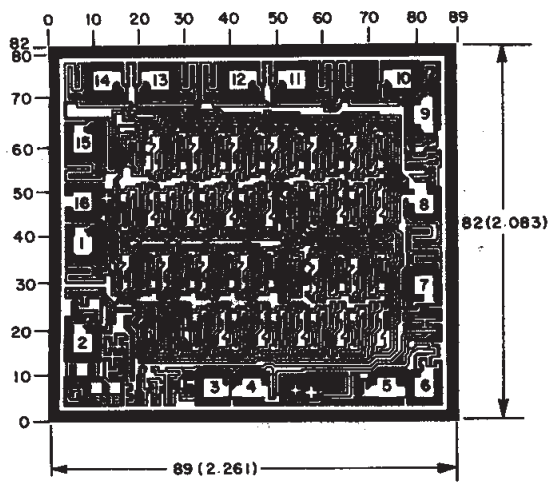
CD4521B Types

FUNCTIONAL TEST SEQUENCE

INPUTS		OUTPUTS				COMMENTS
RESET	IN 2	OUT 2	V _{SS} '	V _{DD} '	Q18-Q24	
1	0	0	V _{DD}	V _{SS}	LOW	Counter is in three 8-stage sections in parallel mode. Counter is reset. IN 2 and OUT 2 are tied together.
0	1	1	V _{DD}	V _{SS}		First LOW-to-HIGH transition at IN 2.
0	0	0	V _{DD}	V _{SS}		255 LOW-to-HIGH transitions are clocked in at IN 2.
	1	1				
	—	—				
	—	—				
0	1	1	V _{DD}	V _{SS}	HIGH	The 255th LOW-to-HIGH transition.
0	0	0	V _{DD}	V _{SS}	HIGH	Counter is converted back to 24-stage serial-mode operation.
0	0	0	V _{SS}	V _{SS}	HIGH	
0	1	0	V _{SS}	V _{DD}	HIGH	
0	1		V _{SS}	V _{DD}	HIGH	
0	0		V _{SS}	V _{DD}	LOW	Counter ripples from an all-HIGH state to an all-LOW state.

A test function, which divides, has been included to reduce the time required to test all 24 stages of the counter. Three sections are loaded in parallel to 255 counts, forcing all the outputs to be in the HIGH state. The counter is changed

back to serial-mode operation and one additional LOW-to-HIGH transition is entered at IN 2, which causes the outputs to ripple from an all-HIGH state to an all-LOW state.



Dimensions and pad layout for CD4521BH.

Dimensions in parentheses are in millimeters and are derived from the basic inch dimensions as indicated. Grid graduations are in mils (10⁻³ inch).

PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
CD4521BE	ACTIVE	PDIP	N	16	25	RoHS & Green	NIPDAU	N / A for Pkg Type	-55 to 125	CD4521BE	Samples
CD4521BEE4	ACTIVE	PDIP	N	16	25	RoHS & Green	NIPDAU	N / A for Pkg Type	-55 to 125	CD4521BE	Samples
CD4521BM	OBSOLETE	SOIC	D	16		TBD	Call TI	Call TI	-55 to 125	CD4521BM	
CD4521BM96	ACTIVE	SOIC	D	16	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-55 to 125	CD4521BM	Samples
CD4521BMT	OBSOLETE	SOIC	D	16		TBD	Call TI	Call TI	-55 to 125	CD4521BM	
CD4521BNSR	ACTIVE	SOP	NS	16	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-55 to 125	CD4521B	Samples
CD4521BPW	ACTIVE	TSSOP	PW	16	90	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-55 to 125	CM521B	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.

(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 (Cl) 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.

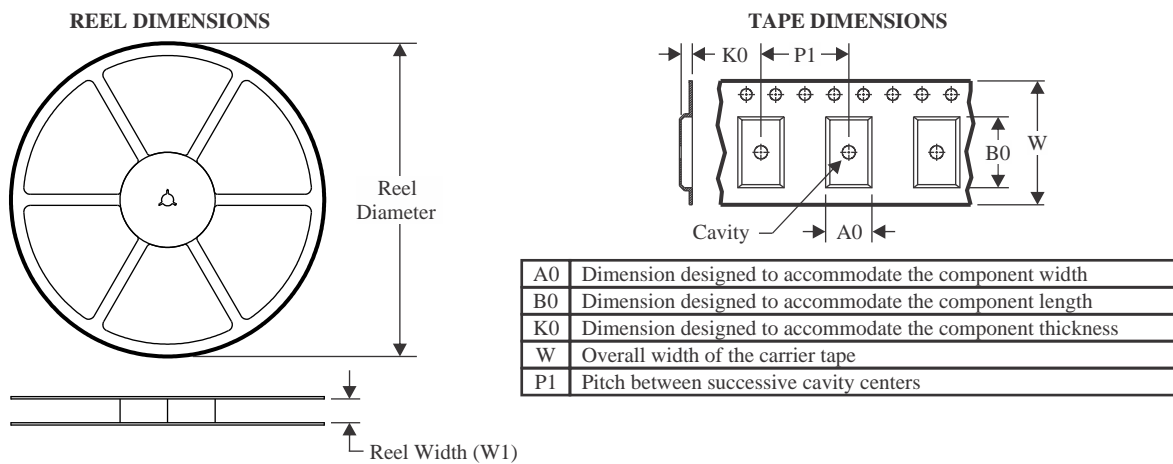
(5) Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.

(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.

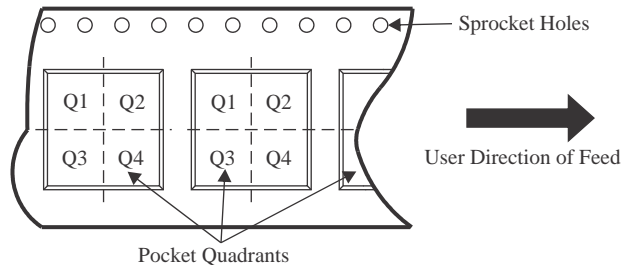
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TAPE AND REEL INFORMATION



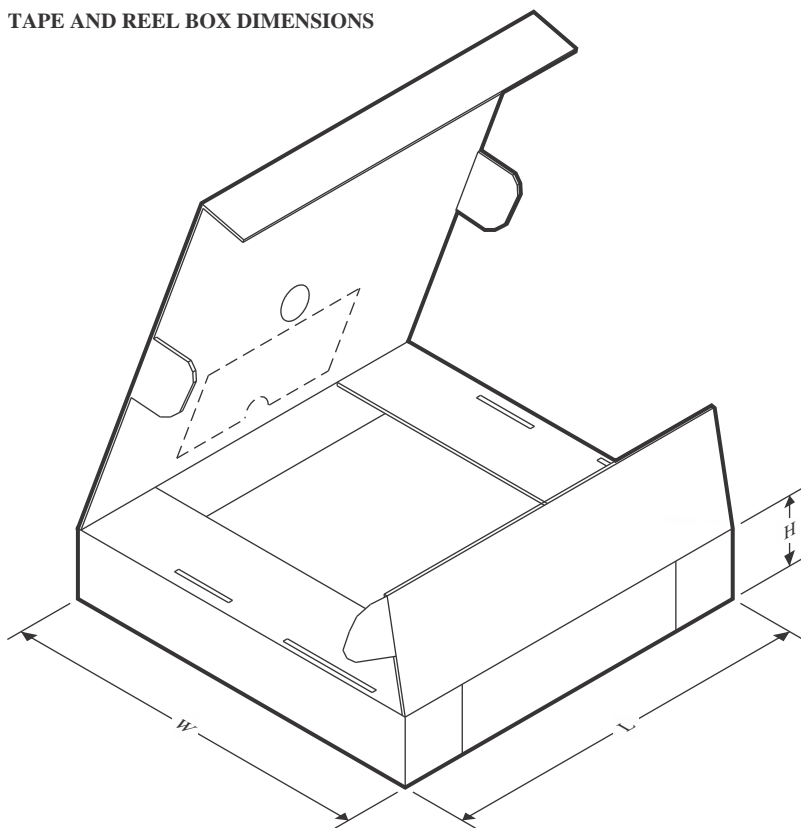
QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*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
CD4521BM96	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
CD4521BNSR	SOP	NS	16	2000	330.0	16.4	8.2	10.5	2.5	12.0	16.0	Q1

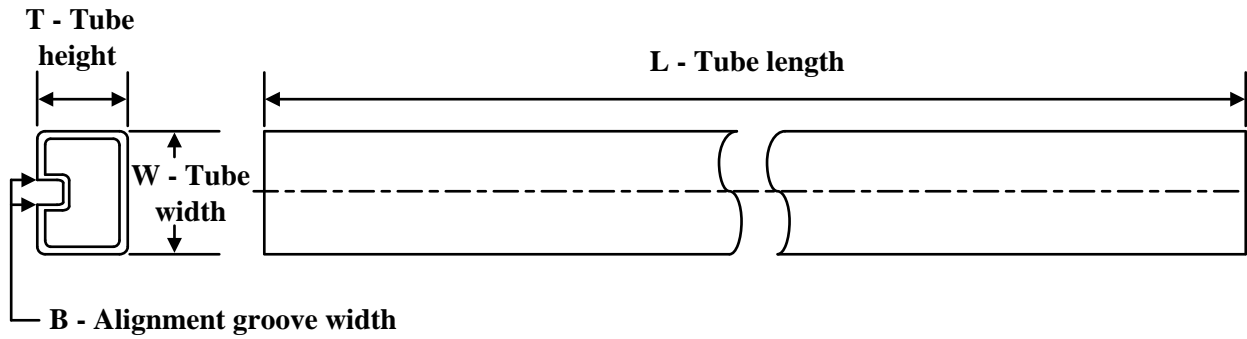
TAPE AND REEL BOX DIMENSIONS



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
CD4521BM96	SOIC	D	16	2500	353.0	353.0	32.0
CD4521BNSR	SOP	NS	16	2000	356.0	356.0	35.0

TUBE



*All dimensions are nominal

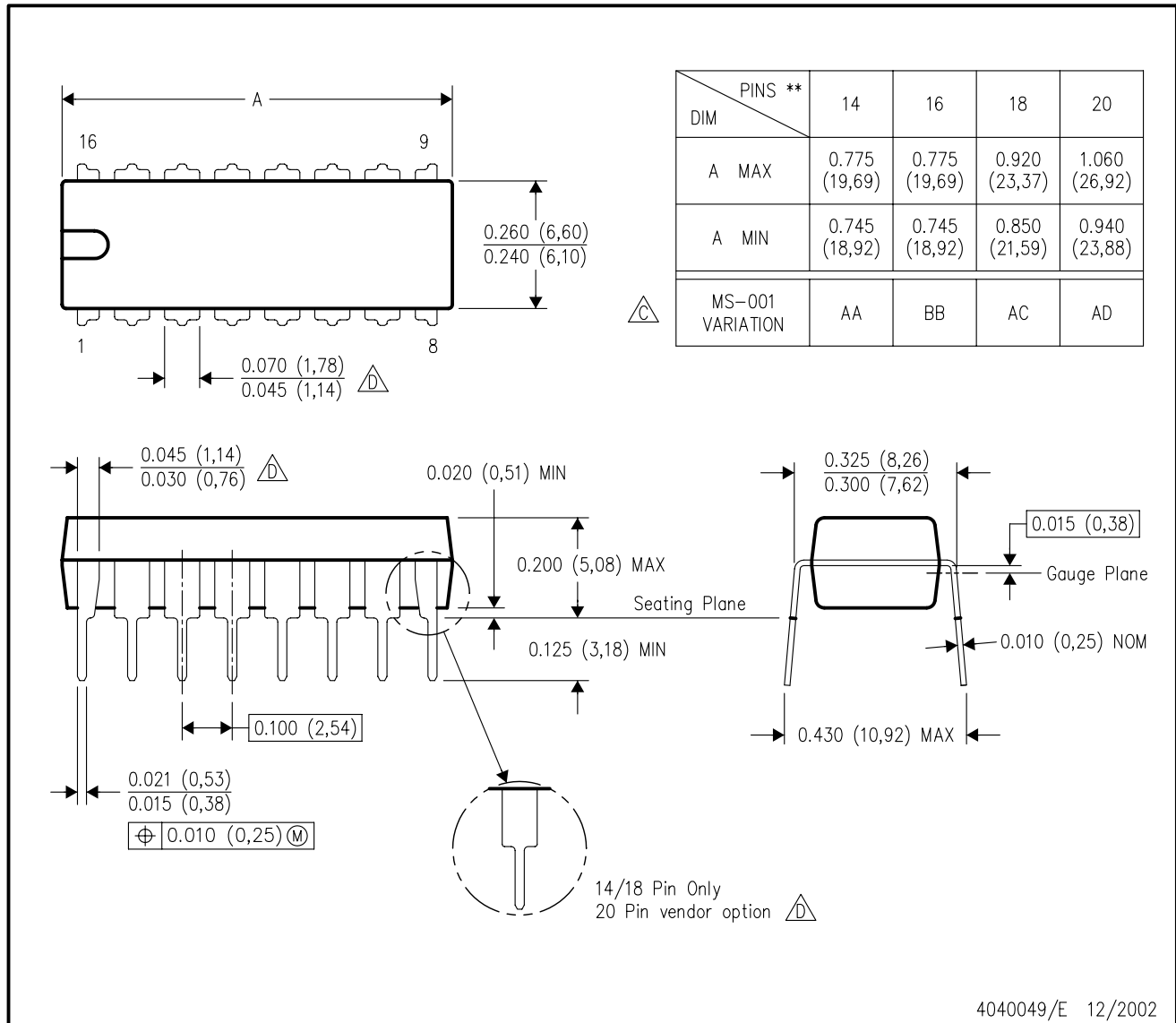
Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (μm)	B (mm)
CD4521BE	N	PDIP	16	25	506	13.97	11230	4.32
CD4521BE	N	PDIP	16	25	506	13.97	11230	4.32
CD4521BEE4	N	PDIP	16	25	506	13.97	11230	4.32
CD4521BEE4	N	PDIP	16	25	506	13.97	11230	4.32
CD4521BPW	PW	TSSOP	16	90	530	10.2	3600	3.5

MECHANICAL DATA

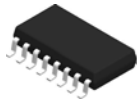
N (R-PDIP-T)**

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).
 - The 20 pin end lead shoulder width is a vendor option, either half or full width.

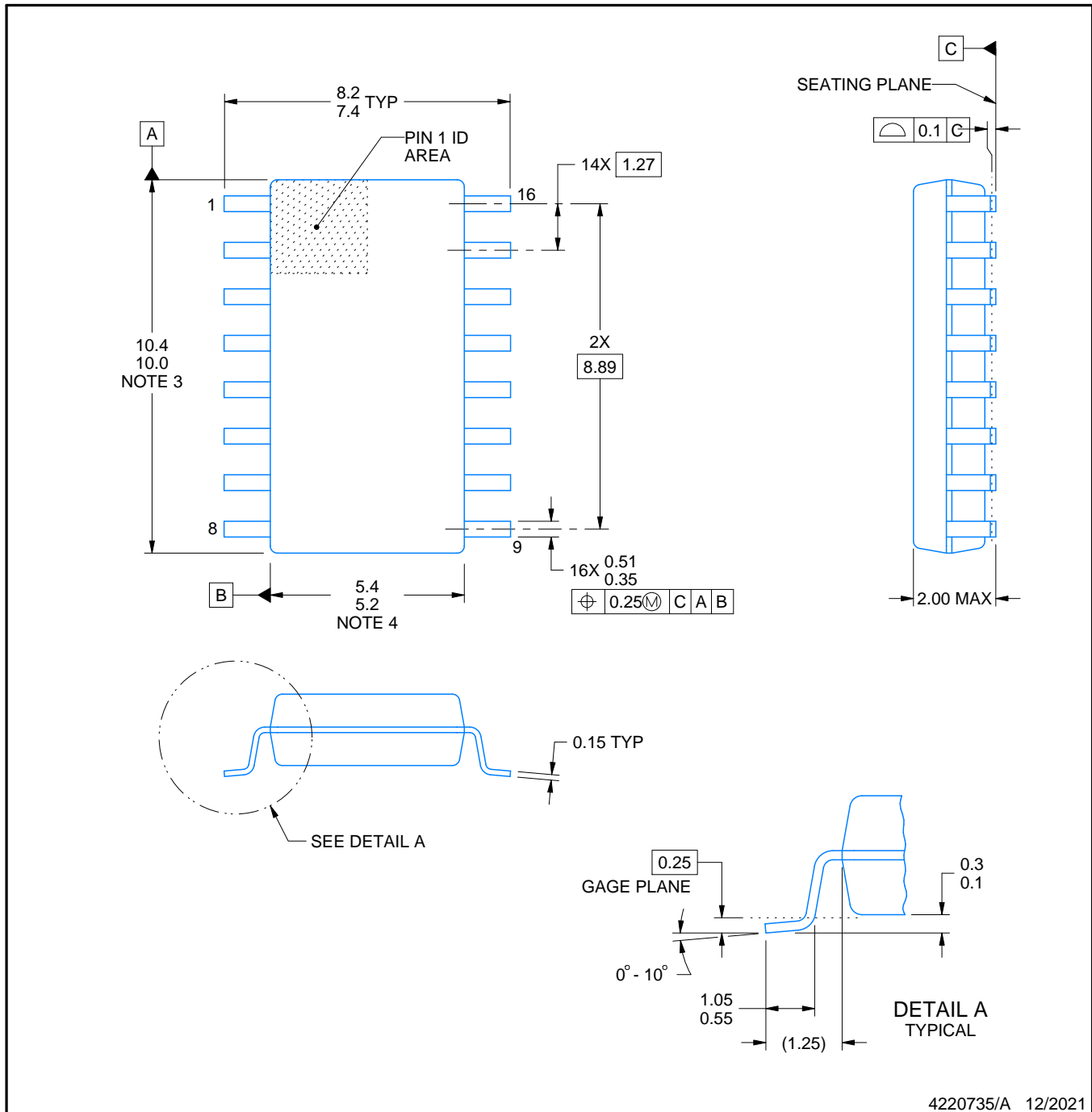


PACKAGE OUTLINE

NS0016A

SOP - 2.00 mm max height

SOP



4220735/A 12/2021

NOTES:

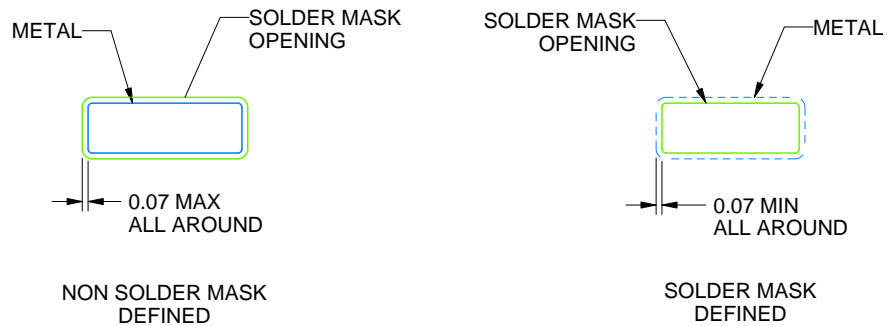
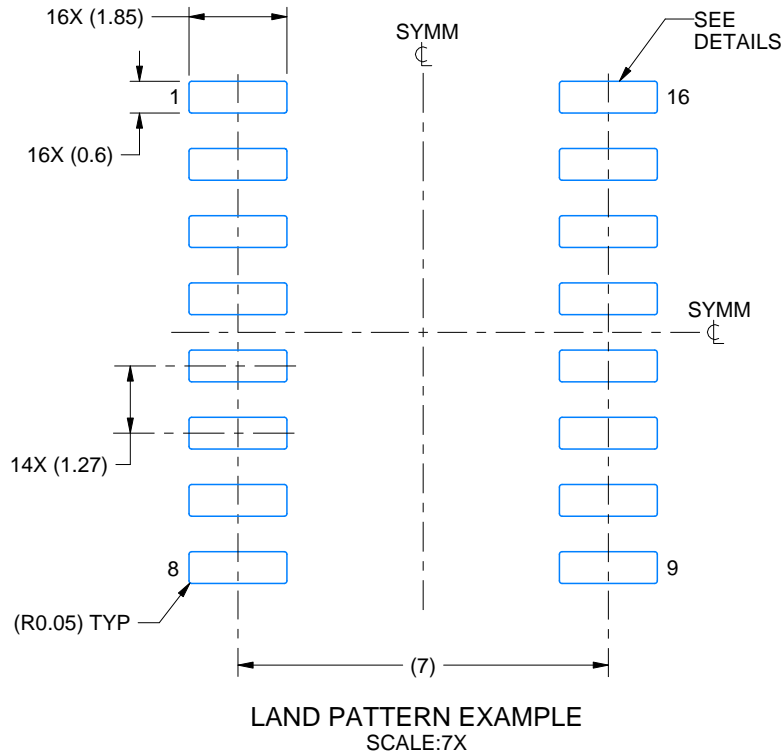
- All linear dimensions are in millimeters. Dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.
- This drawing is subject to change without notice.
- This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.15 mm, per side.
- This dimension does not include interlead flash. Interlead flash shall not exceed 0.25 mm, per side.

EXAMPLE BOARD LAYOUT

NS0016A

SOP - 2.00 mm max height

SOP



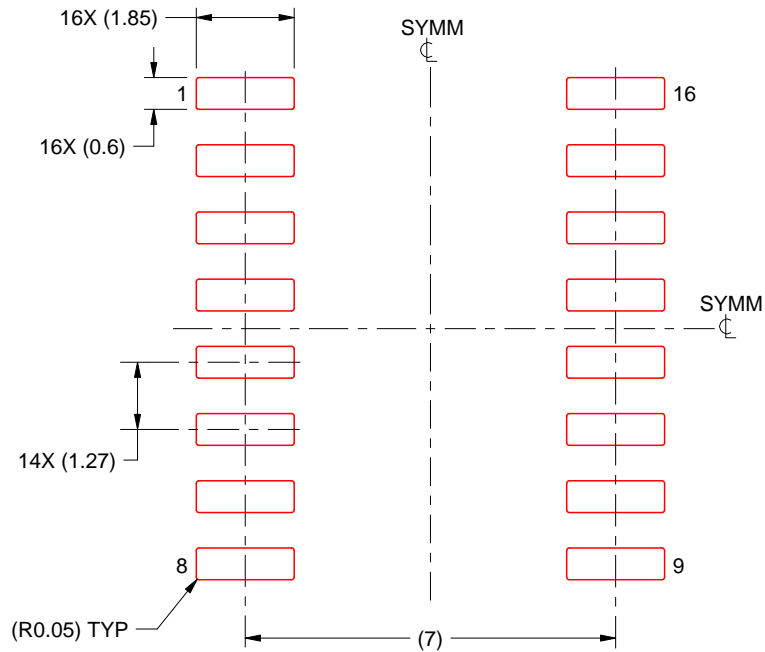
4220735/A 12/2021

NOTES: (continued)

- 5. Publication IPC-7351 may have alternate designs.
- 6. Solder mask tolerances between and around signal pads can vary based on board fabrication site.

EXAMPLE STENCIL DESIGN**NS0016A****SOP - 2.00 mm max height**

SOP



SOLDER PASTE EXAMPLE
 BASED ON 0.125 mm THICK STENCIL
 SCALE:7X

4220735/A 12/2021

NOTES: (continued)

7. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
8. Board assembly site may have different recommendations for stencil design.

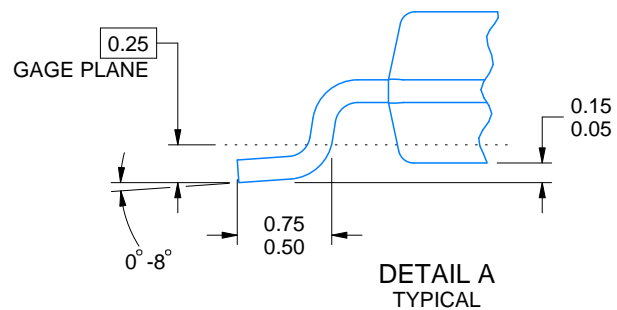
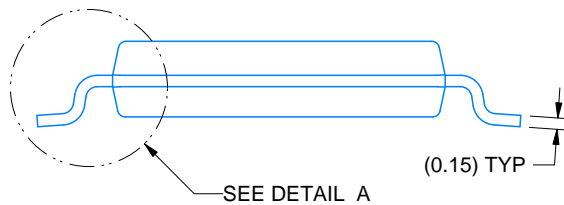
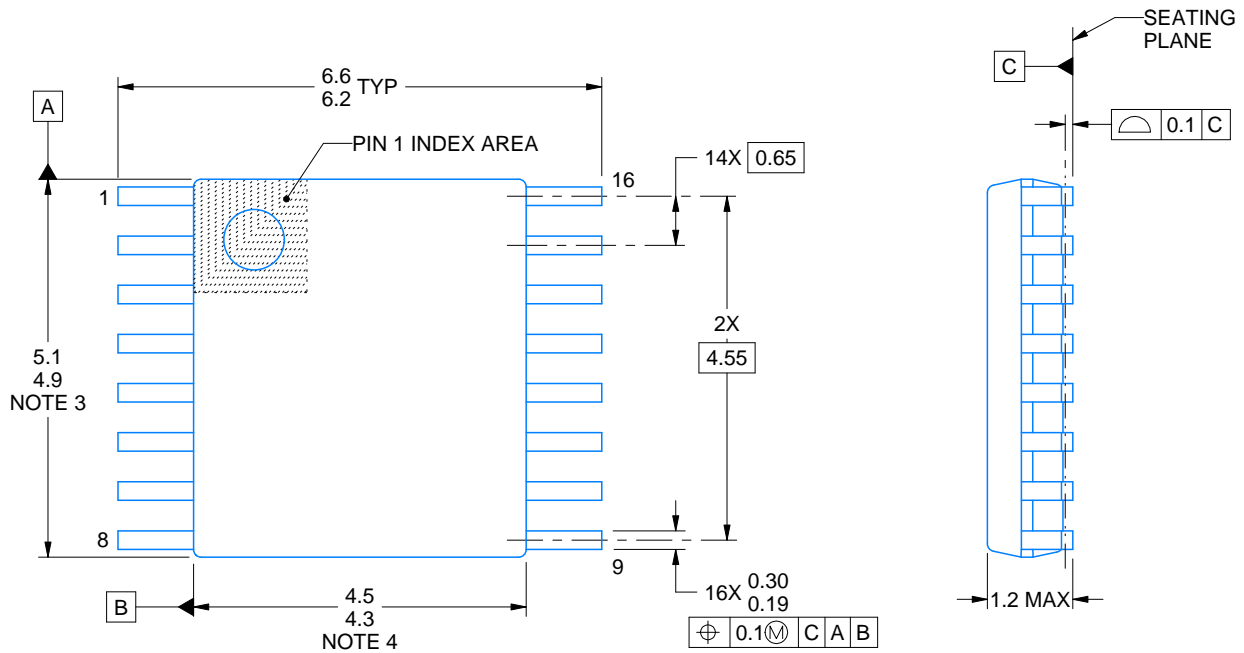


PACKAGE OUTLINE

PW0016A

TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



4220204/A 02/2017

NOTES:

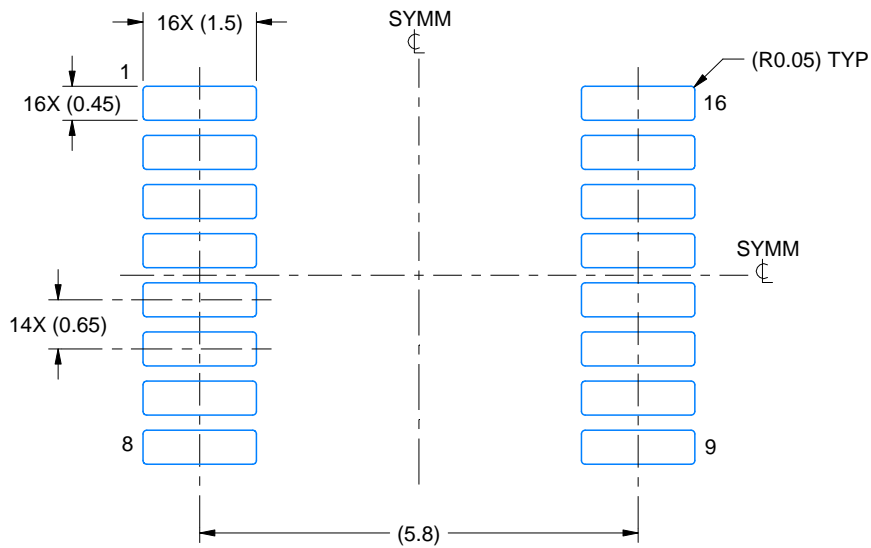
1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.
2. This drawing is subject to change without notice.
3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.15 mm per side.
4. This dimension does not include interlead flash. Interlead flash shall not exceed 0.25 mm per side.
5. Reference JEDEC registration MO-153.

EXAMPLE BOARD LAYOUT

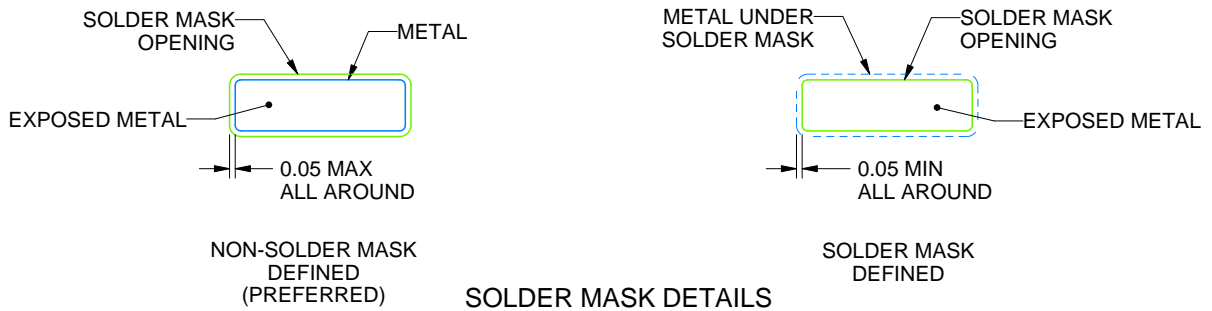
PW0016A

TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



LAND PATTERN EXAMPLE
EXPOSED METAL SHOWN
SCALE: 10X



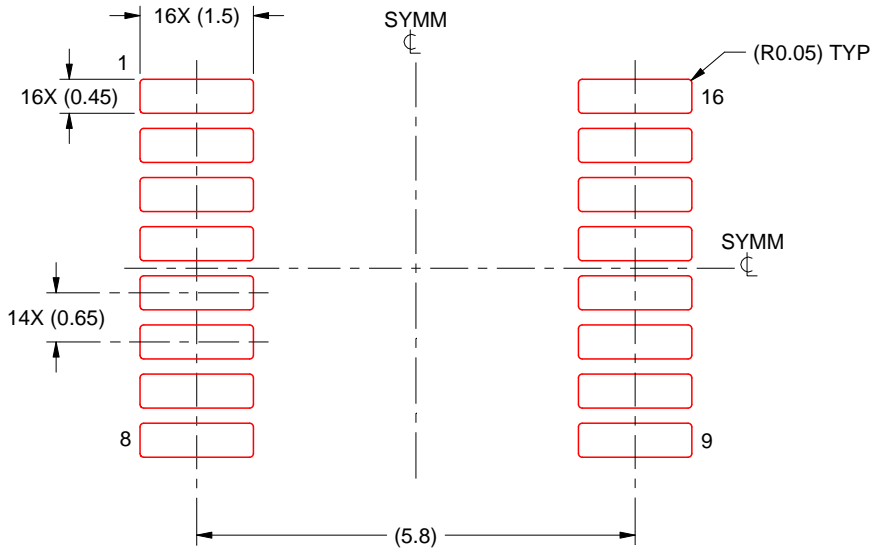
4220204/A 02/2017

NOTES: (continued)

- 6. Publication IPC-7351 may have alternate designs.
- 7. Solder mask tolerances between and around signal pads can vary based on board fabrication site.

EXAMPLE STENCIL DESIGN**PW0016A****TSSOP - 1.2 mm max height**

SMALL OUTLINE PACKAGE



SOLDER PASTE EXAMPLE
 BASED ON 0.125 mm THICK STENCIL
 SCALE: 10X

4220204/A 02/2017

NOTES: (continued)

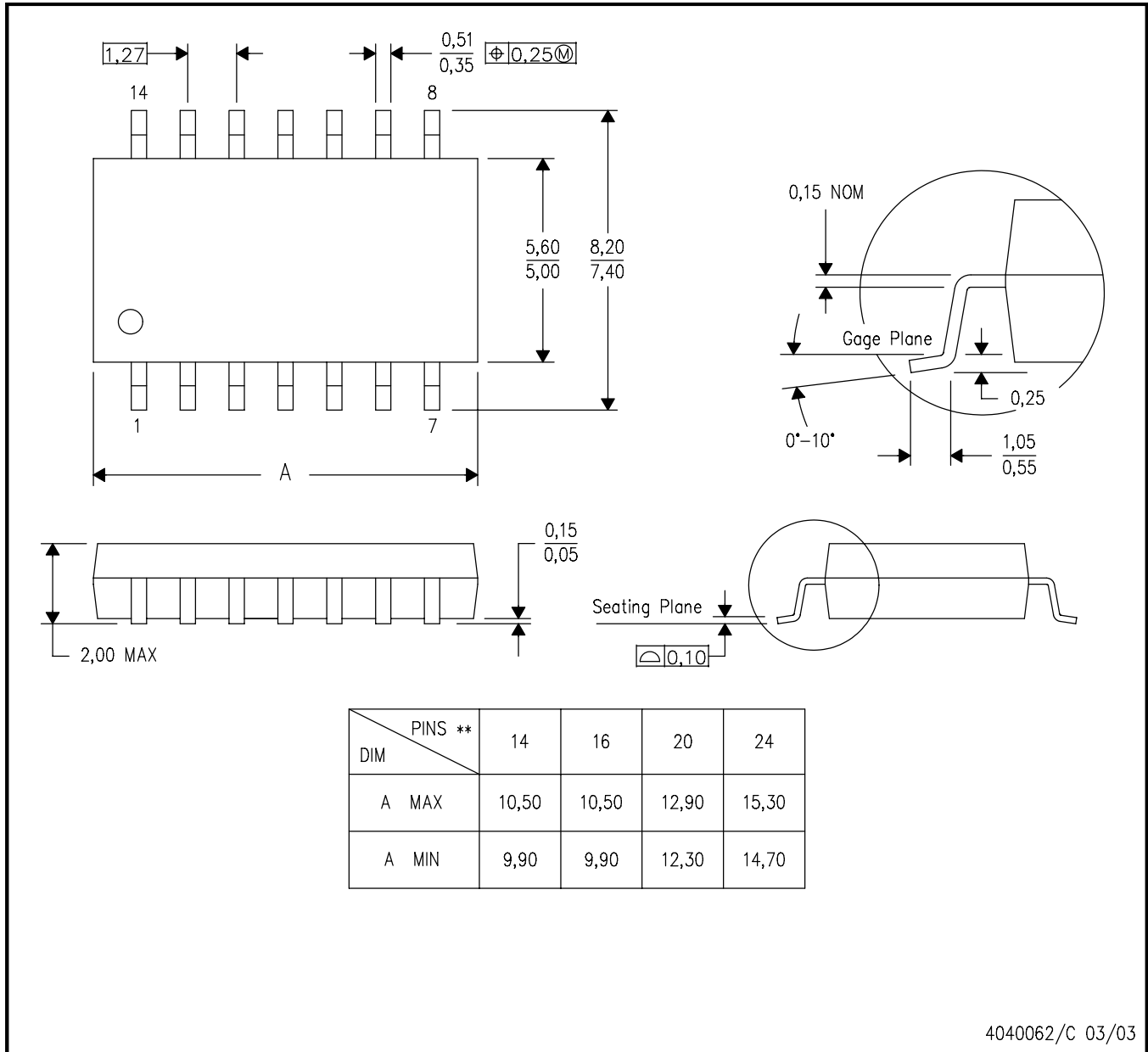
8. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
9. Board assembly site may have different recommendations for stencil design.

MECHANICAL DATA

NS (R-PDSO-G)**

PLASTIC SMALL-OUTLINE PACKAGE

14-PINS SHOWN



- NOTES:
- A. All linear dimensions are in millimeters.
 - B. This drawing is subject to change without notice.
 - C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15.

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