

Data sheet acquired from Harris Semiconductor SCHS052B - Revised June 2003

CMOS Analog Multiplexers/Demultiplexers

High-Voltage Types (20-Volt Rating)

CD4067B - Single 16-Channel

Multiplexer/Demultiplexer

CD4097B -Differential 8-Channel Multiplexer/Demultiplexer

■ CD4067B and CD4097B CMOS

analog multiplexers/demultiplexers* are digitally controlled analog switches having low ON impedance, low OFF leakage current, and internal address decoding. In addition, the ON resistance is relatively constant over the full input-signal range.

The CD4067B is a 16-channel multiplexer with four binary control inputs, A,B,C,D, and an inhibit input, arranged so that any combination of the inputs selects one switch.

The CD4097B is a differential 8-channel multiplexer having three binary control inputs A, B, C, and an inhibit input. The inputs permit selection of one of eight pairs of switches.

A logic "1" present at the inhibit input turns all channels off.

The CD4067B and CD4097B types are supplied in 24-lead hermetic dual-in-line ceramic packages (F3A suffix), 24-lead dual-in-line plastic packages (E suffix), 24-lead small-outline packages (M, M96, and NSR suffixes), and 24-lead thin shrink small-outline packages (P and PWR suffixes).

When these devices are used as demultiplexers, the channel in/out terminals are the outputs and the common out/in terminals are the inputs.

Recommended Operating Conditions at TA = 25°C (Unless Otherwise Specified)

For maximum reliability, nominal operating conditions should be selected so that operation is always within the following ranges. Values shown apply to all types except as

Characteristic	Min	Max.	Units
Supply-Voltage Range (T _A =Full Package- Temp. Range)	3	18	V
Multiplexer Switch Input Current Capability	1 -	25	mΑ
Output Load Resistance	100		Ω

NOTE:

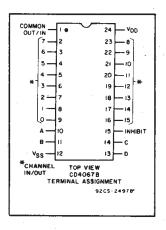
In certain applications, the external load-resistor current may include both V_{DD} and signal-line components. To avoid drawing VDD current when switch current flows into the transmission gate inputs, the voltage drop across the bidirectional switch must not exceed 0.8 volt (calculated from RON values shown in ELECTRICAL CHARAC-TERISTICS CHART). No VDD current will flow through RL if the switch current flows into terminal 1 on the CD4067; terminals 1 and 17 on the CD4097.

Features:

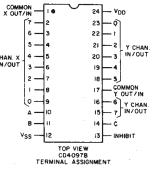
- Low ON resistance: 125 Ω (typ.) over 15 V_{p-p} signal-input range for V_{DD} – V_{SS} = 15 V
- High OFF resistance: channel leakage of ±10 pA (typ.) @ VDD-VSS=10 V
- Matched switch characteristics: RoN=5 Ω (typ.) for VDD-VSS=15 V
- Very low quiescent power dissipation under all digital-control input and supply conditions: 0.2 μW (typ.) @ VDD-VSS=10 V
- Binary address decoding on chip
- 5-V, 10-V, and 15-V parametric ratings
- 100% tested for quiescent current at 20 V
- Standardized symmetrical output characteristics
- Maximum input current of 1 µA at 18 V over full package temperature range; 100 nA at 18 V and 25°C
- Meets all requirements of JEDEC Tentative Standard No. 138, "Standard Specifications for Description of 'B' Series CMOS Devices"

Applications:

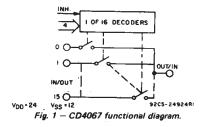
- Analog and digital multiplexing and demultiplexing
- A/D and D/A conversion
- Signal gating



CD4067B, CD4097B Types



9205-24979



CD4067 TRUTH TABLE

-	_	,		_	
A	В	С	D	Inh	Selected Channel
х	Х	х	Х	1	None
0	0	0	0	0	0
1	0	0	0	.0.	1 .
0	1 ,	0	0	0	2
1	1	0	0	0	3
0	0	1	0	0	4
1	0	1	0	0	5
0	1	1	0	0	6
1	1	1	0	0	.7
0	0	0	1	0	8
1 1	0	0	1	0	9
0	1	0	1	0	10
1	1	0	1	0	11
0	0	1	1	0	12
1	0	1	1	0	13
0	1	1	1	0	14
1	1	1	1	0	15

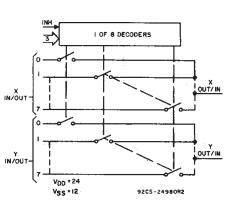


Fig. 2-CD4097 functional diagram.

CD4097 TRUTH TABLE

A	В	С	Inh	Selected Channel
х	х	х	1	None
0	0	0	0	0X, 0Y
1	0	0	0	1X, 1Y
0	1	0	0	2X, 2Y
1	1	0	0	3X, 3Y
0	0	1	0	4X, 4Y
1	0	1	0	5X, 5Y
0	1	1	0	6X, 6Y
1	1	1	0	7X, 7Y

ELECTRICAL CHARACTERISTICS

CHARAC- TERISTIC	(CONDITIONS		LIMI	TS AT II	NDICAT	ED TEI	MPER/	ATURES	s (°C)	Units
	Vis	v _{ss}	V_{DD}	-55	-40	+85	+125		+25]
CLOSUAL INC	(V)	(V)	(V)				L	Min.	Тур.	Max.	l
	015 (V _{is}) AND OUT									
Quiescent			5	5	5	150	150		0.04	5	
Device Cur- rent, IDD			10	10	10	300	.300	-	0.04	10	μA
Max.			15	20	20	600	600	- 1	0.04	20	-
ON-state Re			20	100	100	3000	3000		0.08	100	
sistance		2 400							1		
V _{SS} ≤		0	5	800	850	1200	1300	·_	470	1050	
Vic≪VDD		0	10	310	330	520	550	-	180	400	÷ Ω
ron Max.		0	15	200	210	300	320		125	240	
Change in								T			
on-state								1		i	
Resistance (Between		*					100			1	
Any Two		0	5	_	_	_			15		
Channels)		0	10		_				. 10	 	Ω
Δr_{on}		0	15			_	-	_ :	5		1
OFF Chan-								 		1	
nel Leak-	İ								l	1.	
age Cur-											
rent: Any Channel									'		
OFF Max.										l	
or		0	18	±1	00*	±100	0*	-	±0.1	±100*	nΑ
All Chan-								1	ŀ		
nels OFF											
(Common OUT/IN)											
Max.											
Capacitance:								_			
Input, C _{is}		i		_	-	-	-	-	5	-	
Output,										<u> </u>	1
Cos									İ		
CD4067		-5	5	_		_		l	55	L	pF
CD4097					-	_	1	_	35		ام
Feed-]
through,				_	_	-	_	-	0.2		
Cios									L		L
Propaga-		R _L = 200 KΩ	5	_	_	_	-	_	30	60	
tion Delay Time (Sig-	V_{DD}	C _L =50 pF	10	_			_	-	15	30	ns
nal Input		t _r ,t _f =20 ns	15	-	_	_		 	10	20	
to Output		ł J							'`	20	
CONTROL	(ADD	RESS or INHIB	T) V _C		·		1,5-		- 8		
Input Low		R _L =1 KΩ	5		1.5		:	Ι	—,	1.5	
Voltage,	}	to Vcc	10		3		-	+			1
Vill Max.	=VDD	I _{‡S} <2 μA							 	3	∤
16	thru	thru on all OFF — KΩ Channels	15		4		-	<u> </u>	4	V	
	11 K()		5	3.5					1 -	-	
Input High	1 1 1 2 2							3.5		<u> </u>	4
Input High Voltage, V _{IH} Min.	1 1 1 2 2	Channels	10		7			7	<u> </u>	-	1

^{*} Determined by minimum feasible leakage measurement for automatic testing.

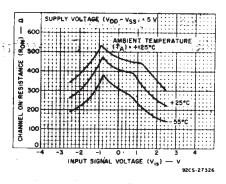


Fig. 3—Typical ON resistance vs. input signal voltage (all types).

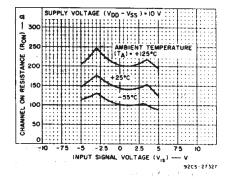


Fig. 4—Typical ON resistance vs. input signal voltage (all types).

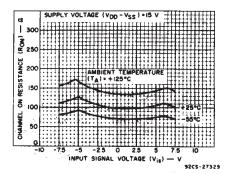


Fig. 5—Typical ON resistance vs. input signal voltage (all types).

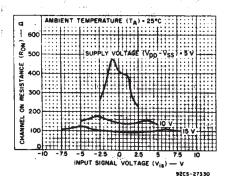
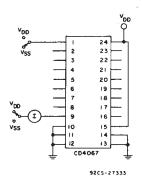


Fig. 6—Typical ON resistance vs. input signal voltage (all types).

ELECTRICAL CHARACTERISTICS (Cont'd)

CHARAC-	CHARAC- CONDITION					AT INI	DICATE		IPERATU	IRES	Units	
	Vis	Vis	v _{ss}	V _{DD}	-55	-40	+85	+125		+25		
	(V)	(V)	(V)					Min.	Тур.	Max.		
Input Current, I _{IN} Max.	V _{IN} =	V _{IN} = 0, 18 V			±0.1	±1	±1		±10 ⁻⁵	±0.1	μΑ	
Propagation Delay Time: Address or		KΩ,C _L = t _r ,t _f =20 ns										
Inhibit-to-		0	5	_				_	325	650		
Signal OUT (Channel		0	10		~	_	_	_	135	270	ns	
turning ON)		0	15	-	_	_	-		95	190	1	
Address or Inhibit-to-	R _L =300 50 pF, 1	D Ω,C _L = t _r ,t _f =20 ns										
Signal OUT		0	5] _	_	→ .	-	~-	220	440		
(Channel turning		0	10	-	-			_	90	180	ns	
OFF)		0	15	-		_	-	-	65	130	1	
Input Capaci- tance, C _{IN}	Any Ad Inhibit	ddress or Input				_	_	-	5	7.5	рF	

TEST CIRCUITS



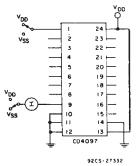


Fig. 7-OFF channel leakage current-any channel OFF.

MAXIMUM RATINGS, Absolute-Maximum Values:

DC SUPPLY-VOLTAGE RANGE, (V _{DD})	
Voltages referenced to V _{SS} Terminal)	
INPUT VOLTAGE RANGE, ALL INPUTS	0.5V to V _{DD} +0.5V
DC INPUT CURRENT, ANY ONE INPUT	
POWER DISSIPATION PER PACKAGE (PD):	
For $T_A = -55^{\circ}C$ to $+100^{\circ}C$	500mW
For T _A = +100°C to +125°C	. Derate Linearity at 12mW/OC to 200mW
DEVICE DISSIPATION PER OUTPUT TRANSISTOR	
FOR TA = FULL PACKAGE-TEMPERATURE RANGE (All Package Ty	pes)100mW
OPERATING-TEMPERATURE RANGE (TA)	
STORAGE TEMPERATURE RANGE (Tstg)	65°C to +150°C
LEAD TEMPERATURE (DURING SOLDERING):	
At distance 1/16 \pm 1/32 inch (1.59 \pm 0.79mm) from case for 10s max	+265°C

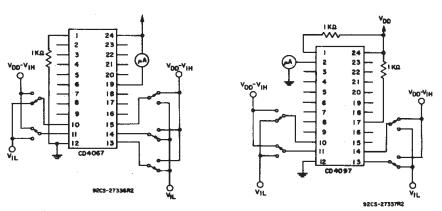


Fig. 8—Input voltage—measure \leq 2 μ A on all OFF channels (e.g., channel 12).

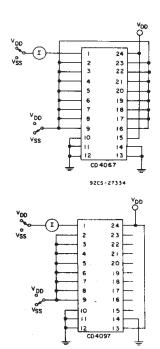


Fig. 9-OFF channel leakage current-all channels OFF.

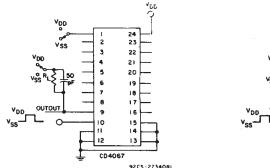
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ELECTRICAL CHARACTERISTICS (Cont'd)

			TE	ST COND	ITIONS	-	· · · · · ·		
CHARAC- TERISTIC	V _{is} (V)	V _{DD} (V)	R _L (ΚΩ)				TYPICAL VALUES	UNITS	
Cutoff	5 °	10	1						
(-3-dB) Frequency		.,		V _{Os} at Common OUT/IN CD4067			14	ŀ	
Channel ON	$20 \log \frac{V_{os}}{V_{is}} = -3 dB$					CD4097	20	мы	
(Sine Wave Input)				V _{os} at An	y Channel		60	MHz	
Total	2.	5					0.3		
Harmonic	3 •	10	10				0.2		
Distortion, THD	5 [•]	15					0.12	%	
	f _{is} = 1	k'Hz sine	wave					, i	
-40-dB	5 •	10	1						
Feedthrough		V		V at Co	V _{os} at Common OUT/IN CD4067				
Frequency (All Channels	20 log	V _{os}	10 dB			12	MHz		
OFF		Vis		V _{os} at An	y Channel	8			
	5 °	10	1						
Signal Cross-				Between A	Any 2 Channels		1		
talk (Fre-	20.100	Vos_	10 4B	Between	Measured on Co	ommon	10		
quency at -40 dB)	$20 \log \frac{V_{os}}{V_{is}} = -40 dB$			Sections CD4097 Only	Measured on Ai Channel	ny	18	MHz	
		10	10*						
Address-or-), t _r ,t _f =2							
Inhibit-to- Signal		DD-VS		,			75	mV (Peak)	
Crosstalk	oquar	re Wave)						(reak)	



- Worst case.
- * Both ends of channel.



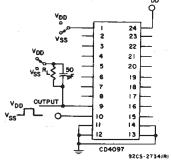


Fig. 11—Turn-on and turn-off propagation delay—address select input to signal output (e.g. measured on channel 0).

TEST CIRCUITS (Cont'd)

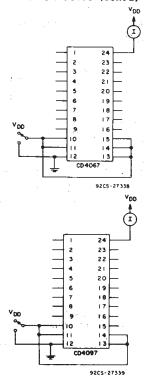
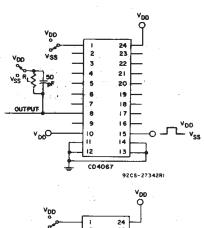


Fig. 10-Quiescent device current.



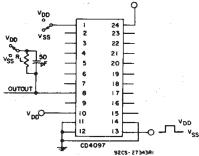
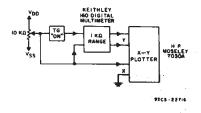
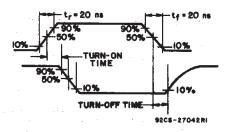


Fig. 12—Turn-on and turn-off propagation delay inhibit input to signal output (e.g. measured on channel 1).





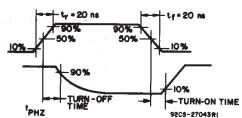


Fig. 13- Channel ON resistance measurement circuit.

Fig. 14— Propagation de/ay waveform channel being turned ON (R_L = 10 K Ω , C_L = 50 pF).

Fig. 15 — Propagation delay waveform, channel being turned OFF (R_L = 300 Ω , C_L = 50 pF).

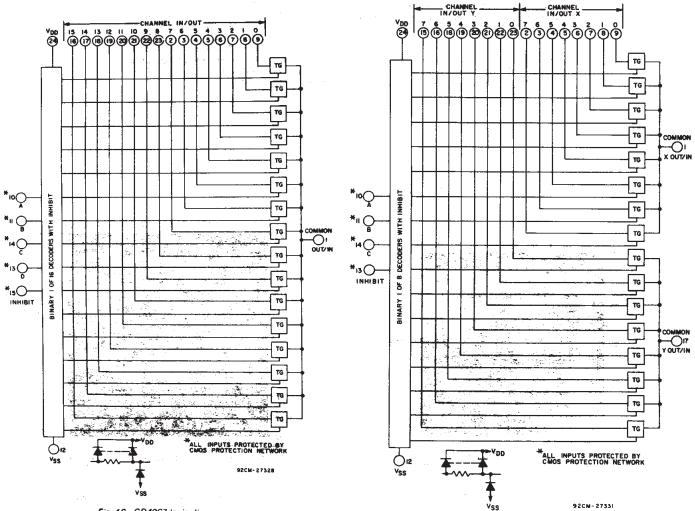


Fig. 16-CD4067 logic diagram.

Fig. 17-CD4097 logic diagram.

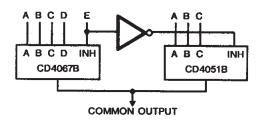


Fig. 18-24-to-1 MUX Addressing

SPECIAL CONSIDERATIONS

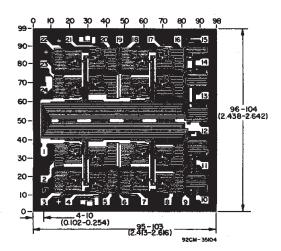
In applications where separate power sources are used to drive V_{DD} and the signal inputs, the V_{DD} current capability should exceed V_{DD}/R_L (R_L=effective external load). This provision avoids permanent current flow or clamp action on the V_{DD} supply when power is applied or removed from the CD4067B or CD4097B.

When switching from one address to another, some of the ON periods of the channels of the multiplexers will overlap momentarily, which may be objectionable in certain applications. Also when a channel is turned on or off by an address input, there is a momentary conductive path from the channel to VSS, which will dump some charge from any capacitor connected to the input or output of the channel. The inhibit input turning on a channel will similarly dump some charge to VSS.

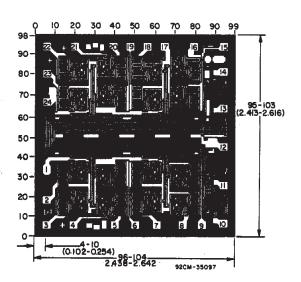
The amount of charge dumped is mostly a function of the signal level above VSS. Typically, at V_{DD} - V_{SS} =10 V, a 100-pF

capacitor connected to the input or output of the channel will lose 3-4% of its voltage at the moment the channel turns on or off. This loss of voltage is essentially independent of the address or inhibit signal transition time, if the transition time is less than 1-2 µs. When the inhibit signal turns a channel off, there is no charge dumping to VSS. Rather, there is a slight rise in the channel voltage level (65 mV typ.) due to capacitive coupling from inhibit input to channel input or output. Address inputs also couple some voltage steps onto the channel signal levels.

In certain applications, the external load-resistor current may include both VDD and signal-line components. To avoid drawing VDD current when switch current flows into the transmission gate inputs, the voltage drop across the bidirectional switch must not exceed 0.8 volt (calculated from RON values shown in ELECTRICAL CHARACTERISTICS CHART). No VDD current will flow through RL if the switch current flows into terminal 1 on the CD4067B, terminals 1 and 17 on the CD4097B.



Dimensions and pad layout for CD4067BH.



Dimensions and pad layout for CD40978H.

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





15-Oct-2015

PACKAGING INFORMATION

Orderable Device	Status	Package Type		Pins		Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
	(1)		Drawing		Qty	(2)	(6)	(3)		(4/5)	
CD4067BF	ACTIVE	CDIP	J	24	1	TBD	Call TI	N / A for Pkg Type	-55 to 125	CD4067BF	Samples
CD4067BF3A	ACTIVE	CDIP	J	24	1	TBD	Call TI	N / A for Pkg Type	-55 to 125	CD4067BF3A	Samples
CD4067BM	ACTIVE	SOIC	DW	24	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	CD4067BM	Samples
CD4067BM96	ACTIVE	SOIC	DW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU CU SN	Level-1-260C-UNLIM	-55 to 125	CD4067BM	Samples
CD4067BM96E4	ACTIVE	SOIC	DW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	CD4067BM	Samples
CD4067BM96G4	ACTIVE	SOIC	DW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	CD4067BM	Samples
CD4067BME4	ACTIVE	SOIC	DW	24	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	CD4067BM	Samples
CD4067BPW	ACTIVE	TSSOP	PW	24	60	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	CM067B	Samples
CD4067BPWG4	ACTIVE	TSSOP	PW	24	60	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	CM067B	Samples
CD4067BPWR	ACTIVE	TSSOP	PW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	CM067B	Samples
CD4097BF	ACTIVE	CDIP	J	24	1	TBD	Call TI	N / A for Pkg Type	-55 to 125	CD4097BF	Samples
CD4097BM	ACTIVE	SOIC	DW	24	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	CD4097BM	Samples
CD4097BME4	ACTIVE	SOIC	DW	24	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	CD4097BM	Samples
CD4097BMG4	ACTIVE	SOIC	DW	24	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	CD4097BM	Samples
CD4097BPW	ACTIVE	TSSOP	PW	24	60	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	CM097B	Samples
CD4097BPWR	ACTIVE	TSSOP	PW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	CM097B	Samples
CD4097BPWRE4	ACTIVE	TSSOP	PW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	CM097B	Samples

PACKAGE OPTION ADDENDUM



15-Oct-2015

(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.
- (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 CD4067B, CD4067B-MIL, CD4097B, CD4097B-MIL:

- Catalog: CD4067B, CD4097B
- Military: CD4067B-MIL, CD4097B-MIL





15-Oct-2015

NOTE: Qualified Version Definitions:

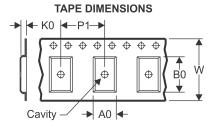
- Catalog TI's standard catalog product
- Military QML certified for Military and Defense Applications

PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





	Dimension designed to accommodate the component width
	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		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
CD4067BM96	SOIC	DW	24	2000	330.0	24.4	10.75	15.7	2.7	12.0	24.0	Q1
CD4067BM96G4	SOIC	DW	24	2000	330.0	24.4	10.75	15.7	2.7	12.0	24.0	Q1
CD4067BPWR	TSSOP	PW	24	2000	330.0	16.4	6.95	8.3	1.6	8.0	16.0	Q1
CD4097BPWR	TSSOP	PW	24	2000	330.0	16.4	6.95	8.3	1.6	8.0	16.0	Q1

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*All dimensions are nominal

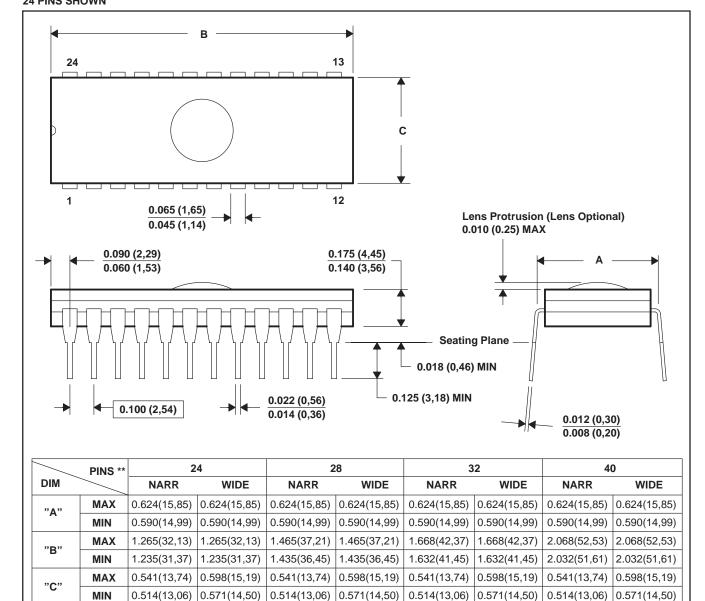
7 III difficitorio di c mominiai							
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
CD4067BM96	SOIC	DW	24	2000	367.0	367.0	45.0
CD4067BM96G4	SOIC	DW	24	2000	367.0	367.0	45.0
CD4067BPWR	TSSOP	PW	24	2000	367.0	367.0	38.0
CD4097BPWR	TSSOP	PW	24	2000	367.0	367.0	38.0

4040084/C 10/97

J (R-GDIP-T**)

24 PINS 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. Window (lens) added to this group of packages (24-, 28-, 32-, 40-pin).
- D. This package can be hermetically sealed with a ceramic lid using glass frit.
- E. Index point is provided on cap for terminal identification.



DW (R-PDSO-G24)

PLASTIC SMALL OUTLINE



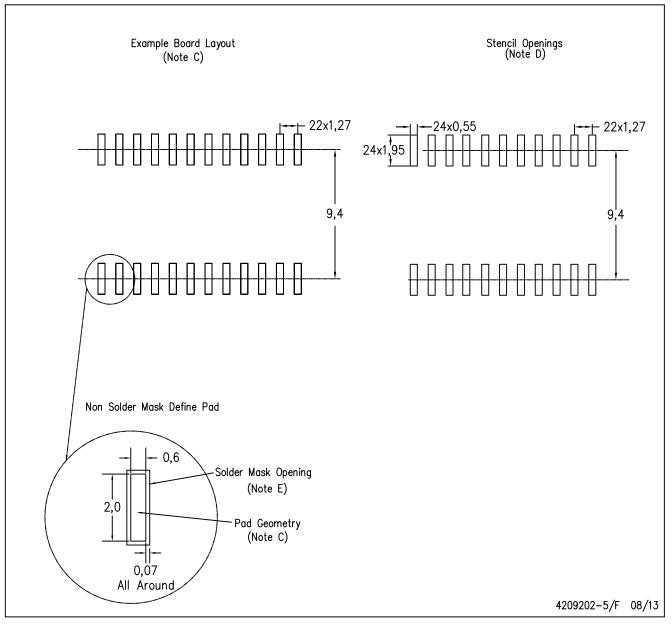
NOTES: A. All linear dimensions are in inches (millimeters). Dimensioning and tolerancing per ASME Y14.5M-1994.

- 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.



DW (R-PDSO-G24)

PLASTIC SMALL OUTLINE



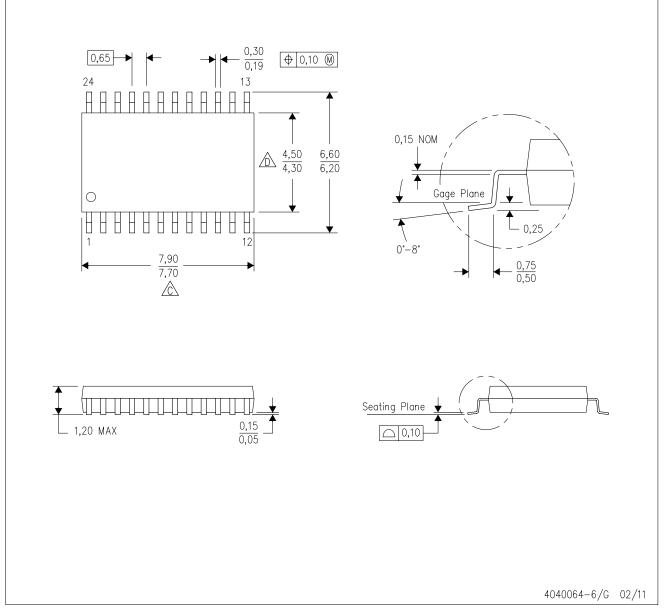
NOTES:

- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Refer to IPC7351 for alternate board design.
- 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
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



PW (R-PDSO-G24)

PLASTIC SMALL OUTLINE



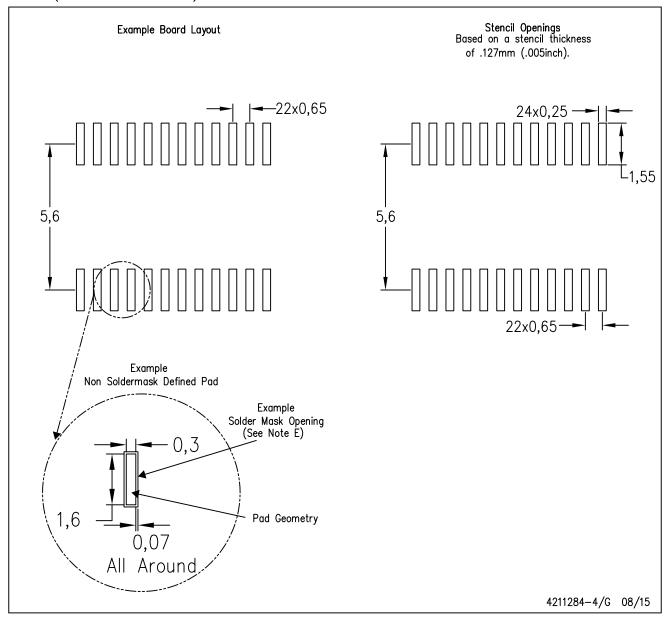
NOTES:

- A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M—1994.
- 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 0,15 each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0,25 each side.
- E. Falls within JEDEC MO-153



PW (R-PDSO-G24)

PLASTIC SMALL OUTLINE



NOTES:

- All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.C. Publication IPC-7351 is recommended for alternate design.
- 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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