SCLS252K - OCTOBER 1995 - REVISED JULY 2003

- Inputs Are TTL-Voltage Compatible
- Latch-Up Performance Exceeds 250 mA Per JESD 17

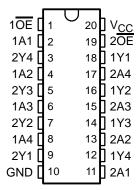
# description/ordering information

These octal buffers/drivers are designed specifically to improve the performance and density of 3-state memory-address drivers, clock drivers, and bus-oriented receivers and transmitters.

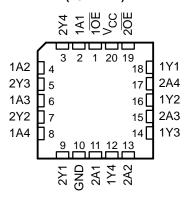
The 'AHCT240 devices are organized as two 4-bit buffers/line drivers with separate output-enable  $(\overline{OE})$  inputs. When  $\overline{OE}$  is low, the device passes data from the A inputs to the Y outputs. When  $\overline{OE}$  is high, the outputs are in the high-impedance state.

To ensure the high-impedance state during power up or power down,  $\overline{OE}$  should be tied to  $V_{CC}$  through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

### SN54AHCT240 . . . J OR W PACKAGE SN74AHCT240 . . . DB, DGV, DW, N, NS, OR PW PACKAGE (TOP VIEW)



# SN54AHCT240 . . . FK PACKAGE (TOP VIEW)



#### **ORDERING INFORMATION**

TA	PACKA	GEŤ	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	PDIP – N	Tube	SN74AHCT240N	SN74AHCT240N
–40°C to 85°C	SOIC - DW	Tube	SN74AHCT240DW	AHCT240
	3010 - 500	Tape and reel	SN74AHCT240DWR	A1101240
	SOP – NS	Tape and reel	SN74AHCT240NSR	AHCT240
40 0 10 03 0	SSOP – DB	Tape and reel	SN74AHCT240DBR	HB240
	TSSOP – PW	Tube	SN74AHCT240PW	HB240
	1330F = FW	Tape and reel	SN74AHCT240PWR	110240
	TVSOP – DGV	Tape and reel	SN74AHCT240DGVR	HB240
	CDIP – J	Tube	SNJ54AHCT240J	SNJ54AHCT240J
–55°C to 125°C	CFP – W	Tube	SNJ54AHCT240W	SNJ54AHCT240W
	LCCC – FK	Tube	SNJ54AHCT240FK	SNJ54AHCT240FK

<sup>†</sup> Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.



Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

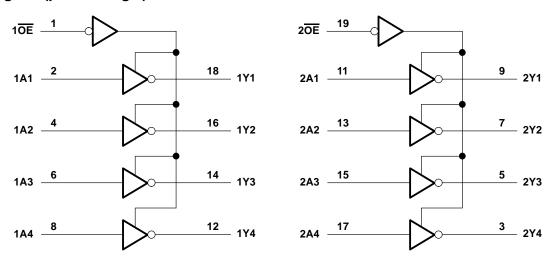


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#### **FUNCTION TABLE** (each 4-bit buffer/driver)

INP	JTS	OUTPUT
ŌĒ	Α	Y
L	Н	L
L	L	Н
Н	Χ	Z

### logic diagram (positive logic)



# absolute maximum ratings over operating free-air temperature range (unless otherwise noted)

Supply voltage range, V <sub>CC</sub>		0.5 V to 7 V
Input voltage range, V <sub>I</sub> (see Note 1)		0.5 V to 7 V
Output voltage range, VO (see Note 1)		
Input clamp current, $I_{IK}$ ( $V_I < 0$ )		—20 mA
Output clamp current, IOK (VO < 0 or VO > VC	c)	±20 mA
Continuous output current, $I_O(V_O = 0 \text{ to } V_{CC})$	·	±25 mA
Continuous current through V <sub>CC</sub> or GND		±75 mA
Package thermal impedance, θ <sub>JA</sub> (see Note 2)	): DB package	70°C/W
	DGV package	92°C/W
	DW package	58°C/W
	N package	69°C/W
	NS package	60°C/W
	PW package	83°C/W
Storage temperature range, T <sub>stq</sub>		–65°C to 150°C

<sup>†</sup> Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

NOTES: 1. The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

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



# recommended operating conditions (see Note 3)

		SN54AH	CT240	SN74AH	CT240	UNIT
		MIN	MAX	MIN	MAX	UNIT
VCC	Supply voltage	4.5	5.5	4.5	5.5	V
VIH	High-level input voltage	2		2		V
VIL	Low-level input voltage		0.8		0.8	V
٧ <sub>I</sub>	Input voltage	0	5.5	0	5.5	V
Vo	Output voltage	0	VCC	0	VCC	V
loh	High-level output current		-8		-8	mA
l <sub>OL</sub>	Low-level output current		8		8	mA
TA	Operating free-air temperature	-55	125	-40	85	°C

NOTE 3: All unused inputs of the device must be held at V<sub>CC</sub> or GND to ensure proper device operation. Refer to the TI application report, Implications of Slow or Floating CMOS Inputs, literature number SCBA004.

### electrical characteristics over recommended operating free-air temperature range (unless otherwise noted)

PARAMETER	TEST CONDITIONS	Vaa	T,	<b>Վ = 25°</b> C	;	SN54AH	CT240	SN74AH	CT240	UNIT
PARAMETER	TEST CONDITIONS	vcc	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNII
V	I <sub>OH</sub> = -50 μA	4.5 V	4.4	4.5		4.4		4.4		V
VOH	$I_{OH} = -8 \text{ mA}$	4.5 V	3.94			3.8		3.8		V
Voi	I <sub>OL</sub> = 50 μA	4.5 V			0.1		0.1		0.1	V
VOL	I <sub>OL</sub> = 8 mA	1 4.5 V			0.36		0.44		0.44	V
loz	$V_O = V_{CC}$ or GND	5.5 V			±0.25		±2.5		±2.5	μΑ
Ι <sub>Ι</sub>	V <sub>I</sub> = 5.5 V or GND	0 V to 5.5 V			±0.1		±1*		±1	μΑ
lcc	$V_I = V_{CC}$ or GND, $I_O = 0$	5.5 V			4		40		40	μΑ
∆l <sub>CC</sub> †	One input at 3.4 V, Other inputs at V <sub>CC</sub> or GND	5.5 V			1.35		1.5		1.5	mA
C <sub>i</sub>	V <sub>I</sub> = V <sub>CC</sub> or GND	5 V		2.5	10				10	pF
Co	V <sub>O</sub> = V <sub>CC</sub> or GND	5 V		3						pF

<sup>\*</sup> On products compliant to MIL-PRF-38535, this parameter is not production tested at  $V_{CC} = 0 \text{ V}$ . † This is the increase in supply current for each input at one of the specified TTL voltage levels, rather than 0 V or  $V_{CC}$ .

# SN54AHCT240, SN74AHCT240 OCTAL BUFFERS/DRIVERS WITH 3-STATE OUTPUTS

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# switching characteristics over recommended operating free-air temperature range, $V_{CC}$ = 5 V $\pm$ 0.5 V (unless otherwise noted) (see Figure 1)

DADAMETER	FROM	то	LOAD	T	λ = 25°C	;	SN54AH	CT240	SN74AH	CT240	UNIT	
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNII	
<sup>t</sup> PLH	Α	Y	C <sub>I</sub> = 15 pF		5.4*	7.4*	1*	8.5*	1	8.5	ns	
t <sub>PHL</sub>	Α	•	CL = 13 pr		5.4*	7.4*	1*	8.5*	1	8.5	115	
<sup>t</sup> PZH	OE	Y	C <sub>L</sub> = 15 pF		7.7*	10.4*	1*	12*	1	12	ns	
t <sub>PZL</sub>	OE	•	CL = 13 pr		7.7*	10.4*	1*	12*	1	12	115	
<sup>t</sup> PHZ	<u>OE</u>	Y	C <sub>L</sub> = 15 pF		8.3*	10.4*	1*	12*	1	12	ns	
t <sub>PLZ</sub>	OL	'	OL = 13 pr		8.3*	10.4*	1*	12*	1	12	115	
t <sub>PLH</sub>	Α	Y	C: 50 pF		5.9	8.4	1	9.5	1	9.5		
tPHL	A	Ť	C <sub>L</sub> = 50 pF		5.9	8.4	1	9.5	1	9.5	ns	
t <sub>PZH</sub>	ŌĒ	Y	C <sub>I</sub> = 50 pF		8.2	11.4	1	13	1	13	ns	
tPZL	OE	ī	CL = 50 pr		8.2	11.4	1	13	1	13	115	
tPHZ	ŌĒ	Y	C <sub>1</sub> = 50 pF		8.8	11.4	1	13	1	13	ne	
t <sub>PLZ</sub>	OE	ſ	CL = 50 pr		8.8	11.4	1	13	1	13	ns	
<sup>t</sup> sk(o)			C <sub>L</sub> = 50 pF			1**				1	ns	

<sup>\*</sup> On products compliant to MIL-PRF-38535, this parameter is not production tested.

# noise characteristics, $V_{CC} = 5 \text{ V}$ , $C_L = 50 \text{ pF}$ , $T_A = 25^{\circ}\text{C}$ (see Note 4)

	PARAMETER	SN7	SN74AHCT240			
	FARAWETER	MIN	TYP	MAX	UNIT	
V <sub>OH(V)</sub>	Quiet output, minimum dynamic VOH		4.1		V	
V <sub>IH(D)</sub>	High-level dynamic input voltage	2			V	
V <sub>IL(D)</sub>	Low-level dynamic input voltage			8.0	V	

NOTE 4: Characteristics are for surface-mount packages only.

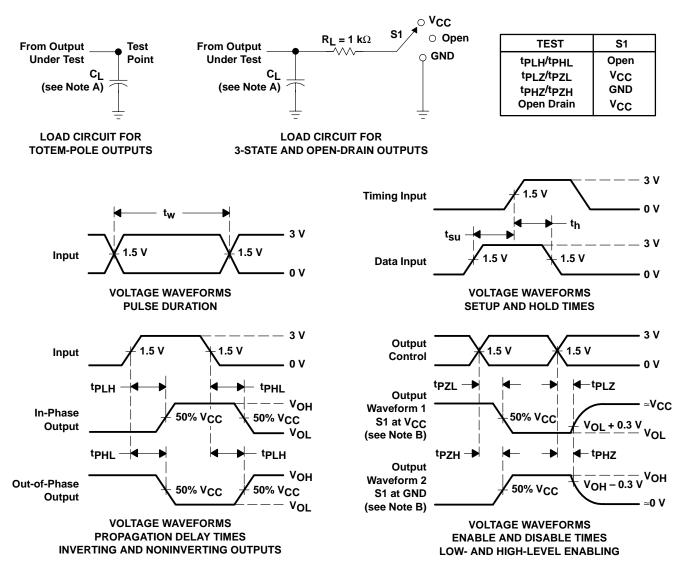
# operating characteristics, V<sub>CC</sub> = 5 V, T<sub>A</sub> = 25°C

	PARAMETER	TEST C	ONDITIONS	TYP	UNIT
C <sub>pd</sub>	Power dissipation capacitance	No load,	f = 1 MHz	10	pF



<sup>\*\*</sup> On products compliant to MIL-PRF-38535, this parameter does not apply.

#### PARAMETER MEASUREMENT INFORMATION



NOTES: A.  $C_L$  includes probe and jig capacitance.

- B. Waveform 1 is for an output with internal conditions such that the output is low except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high except when disabled by the output control.
- C. All input pulses are supplied by generators having the following characteristics: PRR  $\leq$  1 MHz,  $Z_Q = 50 \Omega$ ,  $t_f \leq$  3 ns,  $t_f \leq$  3 ns.
- D. The outputs are measured one at a time with one input transition per measurement.
- E. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms





25-Sep-2013

### **PACKAGING INFORMATION**

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
5962-9680601Q2A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	(3) N / A for Pkg Type	-55 to 125	(4/5) 5962- 9680601Q2A SNJ54AHCT 240FK	Samples
5962-9680601QRA	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-9680601QR A SNJ54AHCT240J	Samples
5962-9680601QSA	ACTIVE	CFP	W	20	1	TBD	Call TI	N / A for Pkg Type	-55 to 125	5962-9680601QS A SNJ54AHCT240W	Samples
SN74AHCT240DBLE	OBSOLETE	SSOP	DB	20		TBD	Call TI	Call TI	-40 to 85		
SN74AHCT240DBR	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB240	Samples
SN74AHCT240DBRE4	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB240	Samples
SN74AHCT240DBRG4	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB240	Samples
SN74AHCT240DW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT240	Samples
SN74AHCT240DWE4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT240	Samples
SN74AHCT240DWG4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT240	Samples
SN74AHCT240DWR	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT240	Samples
SN74AHCT240DWRE4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT240	Samples
SN74AHCT240DWRG4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT240	Samples
SN74AHCT240N	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	-40 to 85	SN74AHCT240N	Samples
SN74AHCT240NE4	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	-40 to 85	SN74AHCT240N	Samples
SN74AHCT240NSR	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT240	Samples





25-Sep-2013

Orderable Device	Status	Package Type	_	Pins	_	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
	(1)		Drawing		Qty	(2)		(3)		(4/5)	
SN74AHCT240NSRE4	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT240	Samples
SN74AHCT240NSRG4	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT240	Samples
SN74AHCT240PW	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB240	Samples
SN74AHCT240PWE4	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB240	Samples
SN74AHCT240PWG4	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB240	Samples
SN74AHCT240PWLE	OBSOLETE	TSSOP	PW	20		TBD	Call TI	Call TI	-40 to 85		
SN74AHCT240PWR	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB240	Samples
SN74AHCT240PWRE4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB240	Samples
SN74AHCT240PWRG4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB240	Samples
SNJ54AHCT240FK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	5962- 9680601Q2A SNJ54AHCT 240FK	Samples
SNJ54AHCT240J	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-9680601QR A SNJ54AHCT240J	Samples
SNJ54AHCT240W	ACTIVE	CFP	W	20	1	TBD	Call TI	N / A for Pkg Type	-55 to 125	5962-9680601QS A SNJ54AHCT240W	Samples

<sup>(1)</sup> 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.

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

<sup>(2)</sup> 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.

# PACKAGE OPTION ADDENDUM



25-Sep-2013

**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.

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In no event shall TI's liability arising out of such information exceed the total purchase price of the TI part(s) at issue in this document sold by TI to Customer on an annual basis.

#### OTHER QUALIFIED VERSIONS OF SN54AHCT240, SN74AHCT240:

Catalog: SN74AHCT240

Automotive: SN74AHCT240-Q1, SN74AHCT240-Q1

Military: SN54AHCT240

#### NOTE: Qualified Version Definitions:

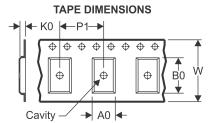
- Catalog TI's standard catalog product
- Automotive Q100 devices qualified for high-reliability automotive applications targeting zero defects
- Military QML certified for Military and Defense Applications

PACKAGE MATERIALS INFORMATION

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# TAPE AND REEL INFORMATION





A0	Dimension designed to accommodate the component width
В0	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
SN74AHCT240DBR	SSOP	DB	20	2000	330.0	16.4	8.2	7.5	2.5	12.0	16.0	Q1
SN74AHCT240DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
SN74AHCT240NSR	SO	NS	20	2000	330.0	24.4	8.2	13.0	2.5	12.0	24.0	Q1

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\*All dimensions are nominal

7 III GITTIOTOTOTO GEO TIOTTIITGE							
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AHCT240DBR	SSOP	DB	20	2000	367.0	367.0	38.0
SN74AHCT240DWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74AHCT240NSR	SO	NS	20	2000	367.0	367.0	45.0

# 14 LEADS SHOWN



- 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.

# W (R-GDFP-F20)

# CERAMIC DUAL FLATPACK



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only.
- E. Falls within Mil-Std 1835 GDFP2-F20



# FK (S-CQCC-N\*\*)

# LEADLESS CERAMIC CHIP CARRIER

28 TERMINAL SHOWN



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a metal lid.
- D. Falls within JEDEC MS-004



# N (R-PDIP-T\*\*)

# PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



- 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.



DW (R-PDSO-G20)

# 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 AC.



# DW (R-PDSO-G20)

# PLASTIC SMALL OUTLINE



- 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-G20)

# PLASTIC SMALL OUTLINE



- 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-G20)

# PLASTIC SMALL OUTLINE



- A. 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.



# **MECHANICAL DATA**

# NS (R-PDSO-G\*\*)

# 14-PINS SHOWN

### PLASTIC SMALL-OUTLINE PACKAGE



- 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.



# DB (R-PDSO-G\*\*)

# PLASTIC SMALL-OUTLINE

### **28 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.

D. Falls within JEDEC MO-150

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