SN54153, SN54LS153, SN54S153 SN74153, SN74LS153, SN74S153 **DUAL 4-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS** SDLS055A - DECEMBER 1972 - REVISED MAY 2007

- Permits Multiplexing from N lines to 1 line
- Performs Parallel-to-Serial Conversion •
- Strobe (Enable) Line Provided for Cascading (N lines to n lines)
- High-Fan-Out, Low-Impedance, Totem-Pole Outputs
- Fully Compatible with most TTL Circuits

ТҮРЕ		YPICAL AVERA		TYPICAL POWER
	FROM DATA	FROM STROBE	FROM SELECT	DISSIPATION
153	14 ns	17 ns	22 ns	180 mW
LS153	14 ns	19 ns	22 ns	31 mW
′S153	6 ns	9.5 ns	12 ns	225 mW

description

Each of these monolithic, data selectors/multiplexers contains inverters and drivers to supply fully complementary, on-chip, binary decoding data selection to the AND-OR gates. Separate strobe inputs are provided for each of the two four-line sections.

FUNCTION TABLE

ł	ECT UTS		DATA	INPUT:	S	STROBE	OUTPUT
B	A	CO	C1	C2	C3	Ğ	Y
x	×	x	X	х	x	н	L
L	L	L	х	х	x	Ł	L
L L	L	н	х	x	х	L	н
L	Н	X	L	×	×	L	L
L	н	×	н	x	×	L	н
н	L	x	х	L	x	L	L
н	L	x	х	н	×	L.	н
н	н	×	х	х	L	L	L
н	Н	Х	X	Х	н	L	н

Select inputs A and B are common to both sections. H = high level, L = low level, X = irrelevant

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

Supply voltage, VCC (See Note 1) .	
Input voltage: '153, 'S153	5.5 V
′LS153	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Operating free-air temperature range:	SN54' 55°C to 125°C
	SN74' 0°C to 70°C
Storage temperature range	

NOTE 1: Voltage values are with respect to network ground terminal.

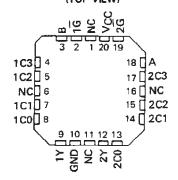
PRODUCTION DATA documents cantain information current as of publication date. Products conform to specifications per the terms of Texas Instruments standard warranty. Production processing does not necessarily include testing of all parameters.



SN54153, SN54LS153, SN54S153 J OR W PACKAGE ⁽¹⁾
SN74153 N PACKAGE
SN74LS153, SN74S153, D OR N PACKAGE

	тс	P VIEW)
1G[1	
вС	2	15 🗌 2 G
1C3 [3	14 🗖 A
1C2[4	13 🛛 2C3
101	5	12 🗌 2C2
1 C0 [6	11 🛛 2C1
1Y 🗌	7	10 🛛 2 CO
GND	8	9 🗌 2Y

SN54LS153, SN54S153 ... FK PACKAGE (1) (TOP VIEW)

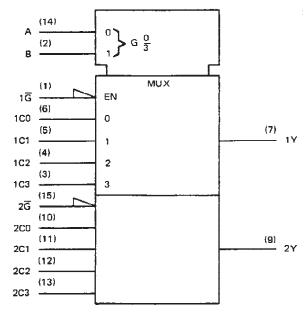


NC - No internal connection

(1) SN54S153, SN74153, and SN74S153 are obsolete.

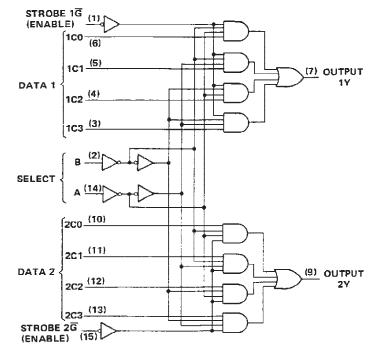
SN54153, SN54LS153, SN54S153 SN74153, SN74LS153, SN74S153 DUAL 4-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

logic symbol[†]



 $^\dagger This symbol is in accordance with ANSI/IEEE Std. 91-1984 and IEC Publication 617-12.$

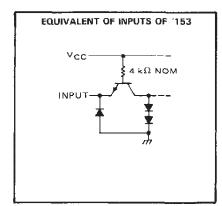
logic diagrams (positive logic)

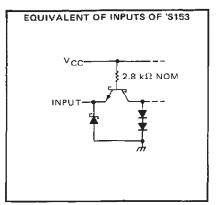


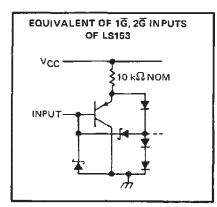
Pin numbers shown are for D, J, N, and W packages.

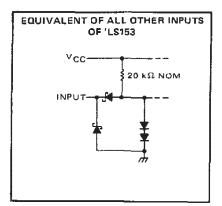


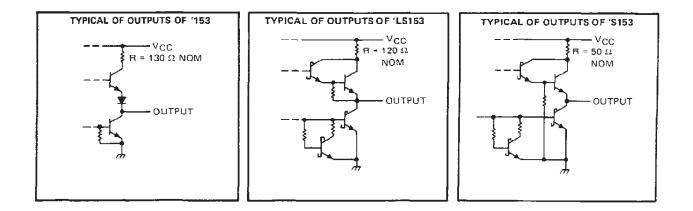
schematics of inputs and outputs













SN54153, SN74153 DUAL 4-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

recommended operating conditions

		SN54153					UNIT
	MIN	NOM	MAX	MIN	NOM	MAX	
Supply voltage, V _{CC}	4.5	5	5.5	4.75	5	5.25	V
High-level output current, IOH			-800			-800	μA
Low-level output current, IOL			16			16	mA
Operating free-air temperature, TA	55		125	0		70	°C

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

				SN5415	3		3		
	PARAMETER	TEST CONDITIONS [†]	MIN	TYP [‡]	MAX	MIN	түр‡	MAX	UNIT
ViH	High-level input voltage		2			2			V
VIL	Low-level input voltage				0.8			0.8	V
VIK	Input clamp voltage	$V_{CC} = MIN, I_I = -12 mA$			-1,5			-1.5	V
VOH	High-level output voltage	$V_{CC} = MIN, V_{1H} = 2V,$ $V_{1L} = 0.8V, I_{OH} = -800 \mu A$	2.4	3.4		2.4	3.4		V
VoL	Low-level output voltage	V _{CC} = MIN, V _{IH} = 2 V, V _{IL} = 0.8 V, I _{OL} = 16 mA	-	0.2	0.4		0.2	0.4	v
ty	Input current at maximum input voltage	V _{CC} = MAX, V ₁ = 5.5 V			1			1	mΑ
hн	High-level input current	V _{CC} = MAX, V _I = 2.4 V			40			40	μA
41	Low-level input current	V _{CC} = MAX, V _I = 0.4 V			-1.6	1		-1.6	mA
los	Short-circuit output current §	V _{CC} = MAX	-20		55	18		-57	mA
ICCL	Supply current, output fow	V _{CC} = MAX, See Note 2		36	52		36	60	mA

[†]For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.

[‡]All typical values are at $V_{CC} = 5 V$, $T_A = 25^{\circ}C$.

SNot more than one output should be shorted at a time.

NOTE 2: ICCL is measured with the outputs open and all inputs grounded.

switching characteristics, VCC = 5 V, TA = 25° C

PARAMETER¶	FROM (INPUT)	TO (OUTPUT)	TEST CONDITIONS	MIN	түр	MAX	UNIT
tPLH	Data	Y			12	18	ns
tpHL	Data	Y	-1		15	23	ns
^t PLH	Select	Y	C _L = 30 pF, R _L = 400 Ω,		22	34	ns
^t ₽HL	Select	Y	See Note 3		22	34	п\$
^t PLH	Strobe G	Y	1		19	30	กร
tPHL	Strobe G	Y	7		15	23	กร

 f_{tPLH} = propagation delay time, low-to-high-level output

tpHL = propagation delay time, high-to-low-level output

NOTE 3: Load circuits and voltage waveforms are shown in Section 1.



SN54LS153, SN74LS153 DUAL 4-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

recommended operating conditions

		SN5	SN54LS153			SN74LS153			
		MIN	NOM	MAX	MIN	NOM	МАХ	UNIT	
Vcc	Supply voltage	4.5	5	5.5	4.75	5	5,25	V.	
VIН	High-level input voltage	2			2			v	
VIL	Low-level input voltage			0.7			0.8	V	
юн	High-level output current			- 0.4			- 0.4	mА	
IOL	Low-level output current			4			8	mΑ	
TA	Operating free-air temperature	- 55		125	0		70	°C	

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

PARAMETER	TEST CONDITIONS 1		s	N54LS1	53	s			
FANAMETER	TEST CONDITIONS I		MIN	TYP‡	MAX	MIN	TYP‡	MAX	UNIT
Vik	V _{CC} = MIN, I ₁ = - 18 mA				- 1.5			- 1.5	V
Voн	$V_{CC} = MIN$, $V_{IH} = 2V$, $V_{IL} = MA$ $I_{OH} = -0.4 \text{ mA}$	x	2.5	3.4		2.7	3.4		v
Va	$V_{CC} = MIN, V_{IH} = 2 V,$	IOL=4mA		0.25	0.4		0.25	0.4	v
VOI I	VIL = MAX,	IOL = 8 mA					0.35	0.5	1 Y
14	VCC=MAX, VI=7V				0.1			0.1	mA
Чн	V _{CC} = MAX, V ₁ = 2.7 V	· · ·	1		20			20	μA
1G, 2G	Vcc = MAX, VI = 0.4 V				- 0.2			-0.2	
All other	V _{CC} = MAX, VI = 0.4 V				- 0.4			- 0.4	mA
los§	VCC = MAX	•	- 20		- 100	- 20		- 100	mA
ICCL	V _{CC} = MAX, See Note 2	_		6.2	10		6.2	10	mA

† For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.

 \ddagger All typical values are at V $_{CC}$ = 5 V, τ_{A} = 25 $^{\circ}$ C.

Not more than one output should be shorted at a time.

NOTE 2: ICCL is measured with the outputs open and all inputs grounded.

то FROM PARAMETER TEST CONDITIONS MIN ТҮР MAX UNIT (INPUT) (OUTPUT) 10 15 Data Y ns **TPLH** 17 26 TPHL Data Y ПS CL = 15 pF, 19 Select Y 29 ПS ^tPLH $R_L = 2 k\Omega$, 25 Select Y 38 ns ^tPHL See Note 3 V 16 24 ns TPLH Strope G 21 32 ^tPHL Y ns Strobe G

switching characteristics, VCC = 5 V, TA = 25°C

 f_{tpLH} = propagation delay time, low-to-high-level output

tpHL = propagation delay time, high-to-low-level output

NOTE 3: Load circuits and voltage waveforms are shown in Section 1.



SN54S153, SN74S153 DUAL 4-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

recommended operating conditions

	S	SN54S153			SN74S153		
	MIN	NOM	MAX	MIN	NOM	MAX	UNIT
Supply voltage, VCC	4.5	5	5.5	4.75	5	5.25	V
High-level output current, IOH			-1			-1	mΑ
Low-level output current, IOL			20			20	mA
Operating free-air temperature, T _A	-55		125	0		70	´C

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

	PARAMETER	TEST CONDITIONS [†]	MIN	TYP ‡	MAX	UNIT
⊻ін	High-level input voltage		2			V
VIL	Low-level input voltage				0.8	V
VIK	Input clamp voltage	V _{CC} = MIN, I ₁ = -18 mA			-1.2	V
V	the level output voltage	V _{CC} = MIN, V _{IH} = 2 V, Series 54	S 2.5	3.4		v
∨он	High-level output voltage	VIL = 0.8 V, IOH = -1 mA Series 74	\$ 2.7	3.4		V V
.,		$V_{CC} = MIN, V_{IH} = 2V,$		-	0.5	v
VOL	Low-level output voltage	V _{IL} = 0.8 V, I _{OL} = 20 mA			0.5	v
4	Input current at maximum input voltage	V _{CC} = MAX, V _I = 5.5 V			1	mА
ίн	High-level input current	V _{CC} = MAX, V ₁ = 2.7 V			50	μA
4L	Low-level input current	V _{CC} = MAX, V ₁ = 0.5 V		······	-2	mA
los	Short-circuit output current §	V _{CC} = MAX	-40		-100	mΑ
CCL	Supply current, low-level output	V _{CC} = MAX, See Note 2	1	45	70	mΑ

[†] For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions. [‡]All typical values are at V_{CC} = 5 V, T_A = 25°C.

 $rac{8}{3}$ Not more than one output should be shorted at a time and duration of short-circuit should not exceed one second.

NOTE 2: ICCL is measured with the outputs open and all inputs grounded.

switching characteristics, VCC = 5 V, TA = 25° C

PARAMETER¶	METER 1 FROM TO TEST CONDITIONS				түр	MAX	UNIT
^t PLH	Data	Y			6	9	ns
tPHL	Data	Y]		6	9	ns
tPLH	Select	Y	CL = 15 pF, RL = 280 Ω,		11.5	18	ns
tPHL.	Select	Y	See Note 3		12	18	ns
^t PLH	Strobe G	Y			10	15	пs
трнц	Strobe G	Y	7		9	13.5	កទ

 f_{tpLH} = propagation delay time, low-to-high-level output

tpHL = propagation datay time, high-to-low-level output

NOTE 3: Load circuits and voltage waveforms are shown in Section 1.

TEXAS INSTRUMENTS POST OFFICE BOX 225012 • DALLAS, TEXAS 75265



PACKAGING INFORMATION

Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
76011012A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	76011012A SNJ54LS 153FK
7601101EA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7601101EA SNJ54LS153J
7601101FA	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7601101FA SNJ54LS153W
JM38510/30902BEA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30902BEA
JM38510/30902BEA.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30902BEA
M38510/30902BEA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30902BEA
SN54153J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54153J
SN54153J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54153J
SN54LS153J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54LS153J
SN54LS153J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54LS153J
SN74LS153D	Obsolete	Production	SOIC (D) 16	-	-	Call TI	Call TI	0 to 70	LS153
SN74LS153DR	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	LS153
SN74LS153DR.A	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	LS153
SN74LS153N	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74LS153N
SN74LS153N.A	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74LS153N
SN74LS153NSR	Active	Production	SOP (NS) 16	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	74LS153
SN74LS153NSR.A	Active	Production	SOP (NS) 16	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	74LS153
SNJ54153J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54153J
SNJ54153J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54153J
SNJ54LS153FK	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	76011012A SNJ54LS 153FK
SNJ54LS153FK.A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	76011012A SNJ54LS 153FK



Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
SNJ54LS153J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7601101EA SNJ54LS153J
SNJ54LS153J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7601101EA SNJ54LS153J
SNJ54LS153W	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7601101FA SNJ54LS153W
SNJ54LS153W.A	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7601101FA SNJ54LS153W

⁽¹⁾ **Status:** For more details on status, see our product life cycle.

⁽²⁾ Material type: When designated, preproduction parts are prototypes/experimental devices, and are not yet approved or released for full production. Testing and final process, including without limitation quality assurance, reliability performance testing, and/or process qualification, may not yet be complete, and this item is subject to further changes or possible discontinuation. If available for ordering, purchases will be subject to an additional waiver at checkout, and are intended for early internal evaluation purposes only. These items are sold without warranties of any kind.

⁽³⁾ RoHS values: Yes, No, RoHS Exempt. See the TI RoHS Statement for additional information and value definition.

(4) Lead finish/Ball material: Parts 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.

⁽⁵⁾ MSL rating/Peak reflow: The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will be used to mount the part to the printed circuit board.

⁽⁶⁾ Part marking: There may be an additional marking, which relates to the logo, the lot trace code information, or the environmental category of the part.

Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "~" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

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29-May-2025

OTHER QUALIFIED VERSIONS OF SN54LS153, SN74LS153 :

• Catalog : SN74LS153

• Military : SN54LS153

NOTE: Qualified Version Definitions:

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



Texas

STRUMENTS

TAPE AND REEL INFORMATION





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*A	l 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
Γ	SN74LS153DR	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
	SN74LS153NSR	SOP	NS	16	2000	330.0	16.4	8.1	10.4	2.5	12.0	16.0	Q1



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PACKAGE MATERIALS INFORMATION

24-Jul-2025



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74LS153DR	SOIC	D	16	2500	340.5	336.1	32.0
SN74LS153NSR	SOP	NS	16	2000	353.0	353.0	32.0

TEXAS INSTRUMENTS

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24-Jul-2025

TUBE



- B - Alignment groove width

*All dimensions	are nominal
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Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	Τ (μm)	B (mm)
76011012A	FK	LCCC	20	55	506.98	12.06	2030	NA
7601101FA	W	CFP	16	25	506.98	26.16	6220	NA
SN74LS153N	N	PDIP	16	25	506	13.97	11230	4.32
SN74LS153N	N	PDIP	16	25	506	13.97	11230	4.32
SN74LS153N.A	N	PDIP	16	25	506	13.97	11230	4.32
SN74LS153N.A	N	PDIP	16	25	506	13.97	11230	4.32
SNJ54LS153FK	FK	LCCC	20	55	506.98	12.06	2030	NA
SNJ54LS153FK.A	FK	LCCC	20	55	506.98	12.06	2030	NA
SNJ54LS153W	W	CFP	16	25	506.98	26.16	6220	NA
SNJ54LS153W.A	W	CFP	16	25	506.98	26.16	6220	NA

NS0016A



PACKAGE OUTLINE

SOP - 2.00 mm max height

SOP



NOTES:

- 1. 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.
- 4. This dimension does not include interlead flash. Interlead flash shall not exceed 0.25 mm, per side.



NS0016A

EXAMPLE BOARD LAYOUT

SOP - 2.00 mm max height

SOP



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.



NS0016A

EXAMPLE STENCIL DESIGN

SOP - 2.00 mm max height

SOP



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.



D (R-PDSO-G16)

PLASTIC SMALL OUTLINE



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

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



MECHANICAL DATA

PLASTIC SMALL-OUTLINE PACKAGE

0,51 0,35 ⊕0,25⊛ 1,27 8 14 0,15 NOM 5,60 8,20 5,00 7,40 \bigcirc Gage Plane ₽ 0,25 7 1 1,05 0,55 0-10 Δ 0,15 0,05 Seating Plane — 2,00 MAX 0,10PINS ** 14 16 20 24 DIM 10,50 10,50 12,90 15,30 A MAX A MIN 9,90 9,90 12,30 14,70 4040062/C 03/03

NOTES: A. All linear dimensions are in millimeters.

NS (R-PDSO-G**)

14-PINS SHOWN

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15.



W (R-GDFP-F16)

CERAMIC DUAL FLATPACK



- NOTES: 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-F16



FK 20

8.89 x 8.89, 1.27 mm pitch

GENERIC PACKAGE VIEW

LCCC - 2.03 mm max height

LEADLESS CERAMIC CHIP CARRIER

This image is a representation of the package family, actual package may vary. Refer to the product data sheet for package details.





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

CERAMIC DUAL IN-LINE PACKAGE



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

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

N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



NOTES:

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



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