



DUAL SCHMITT TRIGGER INVERTERS

Description

The 74LVC2G14 is a dual Schmitt trigger inverter gate with standard push-pull outputs. The device is designed for operation with a power supply range of 1.65V to 5.5V. The inputs are tolerant to 5.5V, allowing this device to be used in a mixed-voltage environment. The device is fully specified for partial power down applications using $I_{\rm OFF}$. The $I_{\rm OFF}$ circuitry disables the output preventing damaging current backflow when the device is powered down.

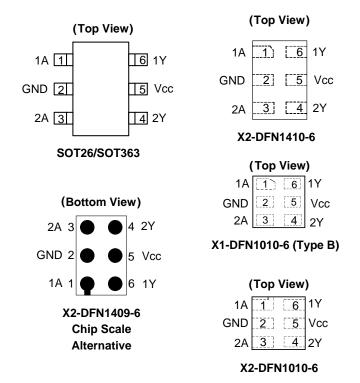
The gate performs the positive Boolean function:

$$Y = \overline{A}$$

Features

- Wide Supply Voltage Range from 1.65V to 5.5V
- ±24mA Output Drive at 3.0V
- CMOS Low Power Consumption
- I_{OFF} Supports Partial-Power-Down Mode Operation
- Inputs Accept up to 5.5V
- ESD Protection Tested per JESD 22
 - Exceeds 2000V Human Body Model (A114)
 - Exceeds 1000V Charged Device Model (C101)
- Latch-up Exceeds 100mA per JESD 78, Class I
- X2-DFN1409-6 Package Designed as a Direct Replacement for Chip Scale Packaging
- Range of Package Options SOT26, SOT363,
 X1-DFN1010-6 (Type B), X2-DFN1010-6, X2-DFN1409-6, and
 X2-DFN1410-6
- Leadless Packages Named per JESD30E
- Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)
- For automotive applications requiring specific change control (i.e. parts qualified to AEC-Q100/101/104/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please <u>contact us</u> or your local Diodes representative. https://www.diodes.com/quality/product-definitions/

Pin Assignments



Applications

- Voltage level shifting
- General-purpose logics
- Power down signal isolations
- Wide array of products such as:
 - PCs, networking, notebooks, netbooks, tablets
 - Computer peripherals, hard drives, SSD, CD/DVD ROM
 - TV, DVD, DVR, set-top boxes
 - Cell phones, personal navigations/GPS
 - MP3 players, cameras, video recorders

Notes:

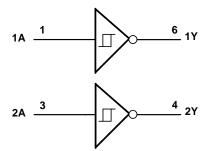
- 1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.



Pin Descriptions

Pin Name	Pin Number	Function		
1A	1	Data Input		
GND	2	Ground		
2A	3	Data Input		
2Y	4	Data Output		
V _{CC}	5	Supply Voltage		
1Y	6	Data Output		

Logic Diagram



Function Table

Inputs	Output
Α	Y
Н	L
L	Н

Absolute Maximum Ratings (Notes 4 & 5) (@T_A = +25°C, unless otherwise specified.)

Symbol	Parameter	Rating	Unit
ESD HBM	Human Body Model ESD Protection	2	kV
ESD CDM	Charged Device Model ESD Protection	1	kV
Vcc	Supply Voltage Range	-0.5 to +6.5	V
VI	Input Voltage Range	-0.5 to +6.5	V
Vo	Voltage Applied to Output in High Impedance or IOFF State	-0.5 to +6.5	V
Vo	Voltage Applied to Output in High or Low State	-0.3 to V _{CC} +0.5	V
l _{IK}	Input Clamp Current V₁ < 0	-50	mA
I _{OK}	Output Clamp Current V _O < 0	-50	mA
Io	Continuous Output Current	-50	mA
_	Continuous Current Through V _{DD} or GND	±100	mA
T_J	Operating Junction Temperature	-40 to +150	°C
T _{STG}	Storage Temperature	-65 to +150	°C

Notes:

- 4. Stresses greater than those listed under *Absolute Maximum Ratings* can 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 Ratings* for extended periods can affect device reliability.

 5. Forcing the maximum allowed voltage could cause a condition exceeding the maximum current or conversely forcing the maximum current could cause.
- a condition exceeding the maximum voltage. The ratings of both current and voltage must be maintained within the controlled range.



Recommended Operating Conditions (Note 6) (@T_A = +25°C, unless otherwise specified.)

Symbol		Parameter	Min	Max	Unit	
V	Operating Voltage	Operating	1.65	5.5	V	
V _{CC}	Operating Voltage	Data Retention Only	1.5	_	V	
VI	Input Voltage		0	5.5	V	
Vo	Output Voltage		0	V _{CC}	V	
	I _{OH} High-Level Output Current	V _{CC} = 1.65V	_	-4		
		V _{CC} = 2.3V	_	-8	mA	
Іон		V _{CC} = 3V	_	-16		
			_	-24		
		$V_{CC} = 4.5V$	_	-32		
		V _{CC} = 1.65V	_	4		
		V _{CC} = 2.3V	_	8	mA	
l _{OL}	Low-Level Output Current		_	16		
		$V_{CC} = 3V$	_	24		
		V _{CC} = 4.5V	_	32		
T _A	Operating Free-Air Temperature	_	-40	+125	°C	

Note:

6. Unused inputs should be held at V_{CC} or Ground.



Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Cumbal	Davamatan	Took Conditions		-40°C to	+85°C	-40°C to	+125°C	l locit	
Symbol	Parameter	Test Conditions	V _{CC}	Min	Max	Min	Max	Unit	
			1.8V	0.70	1.50	0.70	1.70		
			2.3V	1.00	1.80	1.00	2.00		
V_{T+}	Positive-Going Input Threshold Voltage	_	3V	1.30	2.20	1.30	2.40	V	
	Threshold Voltage		4.5V	1.90	3.10	1.90	3.30		
			5.5V	2.20	3.60	2.20	3.80		
			1.8V	0.25	0.90	0.25	1.10		
			2.3V	0.40	1.15	0.4	1.35		
V_{T-}	Negative-Going Input Threshold Voltage	_	3V	0.60	1.50	0.6	1.7	V	
	Threshold Voltage		4.5V	1.00	2.00	1	2.2		
			5.5V	1.20	2.30	1.2	2.5		
			1.8V	0.15	1.00	0.15	1.20		
	I bustones in		2.3V	0.25	1.10	0.25	1.30	1	
ΔV_{T}	Hysteresis (V _{T+} -V _{T-)}	_	3V	0.40	1.20	0.40	1.40	V	
	(-		4.5V	0.60	1.50	0.60	1.70		
			5.5V	0.70	1.70	0.70	1.90		
		I _{OH} = -100μA	1.65V to 5.5V	V _{CC} - 0.1	_	V _{CC} - 0.1	_		
		I _{OH} = -4mA	1.65V	1.2	_	0.95	_		
1.7	Link Lavel Output Valtage	I _{OH} = -8mA	2.3V	1.9	_	1.7	_	V	
V_{OH}	High-Level Output Voltage	I _{OH} = -16mA	- 3V	2.4	_	2.2	_	V	
		I _{OH} = -24mA	3 V	2.3	_	2.0	_		
		I _{OH} = -32mA	4.5V	3.8	_	3.4	_		
		I _{OL} = 100μA	1.65V to 5.5V	_	0.1	_	0.10		
		I _{OL} = 4mA	1.65V	_	0.45	_	0.70		
	Law Lavel Output Valtage	I _{OL} = 8mA	2.3V	_	0.3	_	0.45	V	
V_{OL}	Low-Level Output Voltage	I _{OL} = 16mA	2)./	_	0.4	_	0.60	V	
		I _{OL} = 24mA	3V	_	0.55	_	0.80		
		I _{OL} = 32mA	4.5V	_	0.55	_	0.80	1	
lı	Input Current	V _I = 5.5V or GND	0 to 5.5V	_	± 5	_	±20	μΑ	
loff	Power Down Leakage Current		0	_	± 10	_	±20	μΑ	
Icc	Supply Current	$V_I = 5.5V$ or GND $I_O = 0$	1.65V to 5.5V	_	10	_	40	μA	



Package Characteristics ((@ $T_A = +25$ °C, $V_{CC} = 3.3$ V, unless otherwise specified.)

Symbol	Parameter	Package	Conditions	Min	Тур	Max	Unit
Cı	Input Capacitance	Typical of all packages	$V_{CC} = 3.3V$ $V_{I} = V_{CC}$ or GND	_	3.5	_	pF
		SOT26		_	204	_	
		SOT363		_	371	_	
	Thermal Resistance	X2-DFN1410-6	(Nata 7)	_	430	_	°C/W
θ_{JA}	Junction-to-Ambient	X2-DFN1409-6	(Note 7)	_	450	_	-C/VV
		X1-DFN1010-6 (Type B)		_	495	_	
		X2-DFN1010-6		_	510	_	
		SOT26		_	52	_	
		SOT363		_	143	_	
0	Thermal Resistance	X2-DFN1410-6	(Noto 7)	_	190	_	°C // //
θJC	Junction-to-Case	X2-DFN1409-6	(Note 7)	_	225	_	°C/W
		X1-DFN1010-6 (Type B)		_	245	_	
		X2-DFN1010-6	=	_	250	_	

Note:

Switching Characteristics

 $T_A = -40$ °C to +85°C, $C_L = 30$ or 50pF (See Figure 1)

Parameter	Parameter From To (Input) (Output)			= 1.8V .15V		= 2.5V).2V		: 3.3V).3V		= 5V).5V	Unit
	(input)	(Output)	Min	Max	Min	Max	Min	Max	Min	Max	
t _{PD}	А	Y	0.5	11.0	0.5	6.5	0.5	6.0	0.5	4.3	ns

 $T_A = -40$ °C to +125°C, $C_L = 30$ or 50pF (See Figure 1)

14 = -40 0 to +125 0; 0[= 50 01 50 pr (occ righte 1)											
Parameter	From (Input)	To		: 1.8V .15V		: 2.5V).2V		: 3.3V .3V	V _{CC} ± 0	= 5V).5V	Unit
	(input)	(Output)	Min	Max	Min	Max	Min	Max	Min	Max	İ
t _{PD}	Α	Y	0.5	12.0	0.5	7.2	0.5	6.7	0.5	4.7	ns

Operating Characteristics

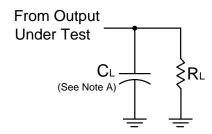
$T_A = +25$ °C

	Parameter		Test	V _{CC} = 1.8V	$V_{CC} = 2.5V$	V _{CC} = 3.3V	V _{CC} = 5V	Unit
			Conditions	Тур	Тур	Тур	Тур	O.IIIC
	C _{PD}	Power Dissipation Capacitance	f = 10MHz	17	19	20	21	pF

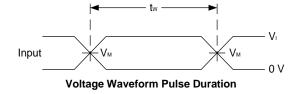
^{7.} Test condition for all packages: Device mounted on FR-4 substrate PC board, 2oz copper with minimum recommended pad layout.

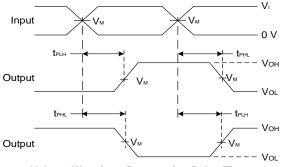


Parameter Measurement Information



V	Inp	outs	V	0.	D.	
Vcc	VI	t _R /t _F	V _M	C∟	R _L	
1.8V ± 0.15V	Vcc	≤ 2ns	V _{CC} /2	30pF	1kΩ	
2.5V ± 0.2V	Vcc	≤ 2ns	V _{CC} /2	30pF	500Ω	
$3.3V \pm 0.3V$	3V	≤ 2.5ns	1.5V	50pF	500Ω	
5V ± 0.5V	Vcc	≤ 2.5ns	V _{CC} /2	50pF	500Ω	





Voltage Waveform Propagation Delay Times Inverting and Non Inverting Outputs

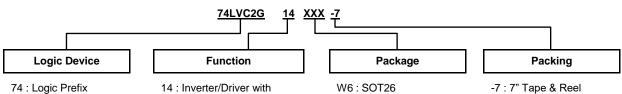
Figure 1 Load Circuit and Voltage Waveforms

Notes:

- A. Includes test lead and test apparatus capacitance.
 B. All pulses are supplied at pulse repetition rate ≤ 10MHz.
 C. Inputs are measured separately one transition per measurement.
- D. t_{PLH} and t_{PHL} are the same as t_{PD}.



Ordering Information



74 : Logic Prefix LVC: 1.65V to 5.5V Logic Family

2G: Two Gates

14: Inverter/Driver with Schmitt Trigger Inputs W6: SOT26 **DW: SOT363**

FW5: X1-DFN1010-6 FW4: X2-DFN1010-6 (Type B)

FX4: X2-DFN1409-6 FZ4: X2-DFN1410-6

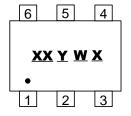
Part Number	Part Number	Package	Package (Note 8)	Pookogo Sizo	Packing	(Note 9)
Fait Number	Suffix	Code	Fackage (Note o)	Package Size	Qty.	Carrier
74LVC2G14W6-7	-7	W6	SOT26	2.8mm x 2.2mm x 1.1mm 0.95mm Lead Pitch	3000	Tape & Reel
74LVC2G14DW-7	-7	DW	SOT363	2.0mm x 2.0mm x 1.1mm 0.65mm Lead Pitch	3000	Tape & Reel
74LVC2G14FW5-7	-7	FW5	X1-DFN1010-6 (Type B)	1.0mm x 1.0mm x 0.5mm 0.35mm Pad Pitch	5000	Tape & Reel
74LVC2G14FW4-7	-7	FW4	X2-DFN1010-6	1.0mm x 1.0mm x 0.4mm 0.35mm Pad Pitch	5000	Tape & Reel
74LVC2G14FX4-7	-7	FX4	X2-DFN1409-6 Chip Scale Alternative	1.4mm x 0.9mm x 0.4mm 0.5mm Pad Pitch	5000	Tape & Reel
74LVC2G14FZ4-7	-7	FZ4	X2-DFN1410-6	1.4mm x 1.0mm x 0.4mm 0.5mm Pad Pitch	5000	Tape & Reel

8. Pad layout as shown on our suggested pad layout, which can be found on our website at http://www.diodes.com/package-outlines.html. Notes:

9. The taping orientation is located on our website https://www.diodes.com/assets/Packaging-Support-Docs/ap02007.pdf.

Marking Information

(1) SOT26, SOT363



XX: Identification Code

Y: Year 0 to 9 (ex: 2 = 2022)

W: Week: A to Z: Week 1 to 26;

a to z: Week 27 to 52; z Represents

Week 52 and 53

X: A to Z: Internal Code

Part Number	Package	Identification Code		
74LVC2G14W6-7	SOT26	Z5		
74LVC2G14DW-7	SOT363	Z5		



Marking Information (continued)

(2) X1-DFN1010-6 (Type B), X2-DFN1010-6, X2-DFN1409-6, X2-DFN1410-6

(Top View)

XX: Identification Code

<u>Y</u>: Year 0 to 9 (ex: 2 = 2022)

W: Week: A to Z: Week 1 to 26;

a to z: Week 27 to 52; z Represents

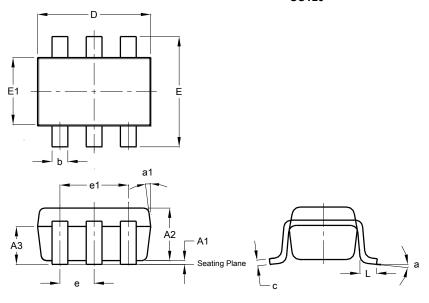
Week 52 and 53 \underline{X} : A to Z: Internal Code

Part Number	Package	Identification Code
74LVC2G14FW4-7	X2-DFN1010-6	Z5
74LVC2G14FW5-7	X1-DFN1010-6 (Type B)	W5
74LVC2G14FX4-7	X2-DFN1409-6	X5
74LVC2G14FZ4-7	X2-DFN1410-6	Z5



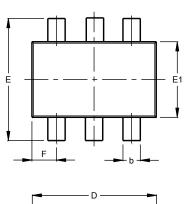
Package Outline Dimensions

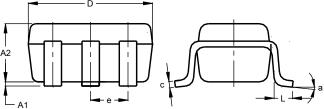
SOT26



SOT26			
Dim	Min	Max	Тур
A1	0.013	0.10	0.05
A2	1.00	1.30	1.10
A3	0.70	0.80	0.75
b	0.35	0.50	0.38
C	0.10	0.20	0.15
D	2.90	3.10	3.00
е	-	-	0.95
e1	-	-	1.90
Е	2.70	3.00	2.80
E1	1.50	1.70	1.60
L	0.35	0.55	0.40
а	-	-	8°
a1	-	-	7°
All	All Dimensions in mm		

SOT363





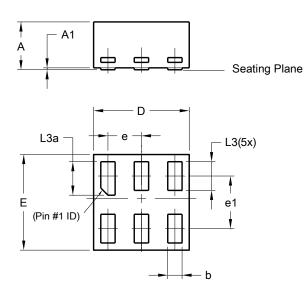
	SOT363			
Dim	Min	Max	Тур	
A1	0.00	0.10	0.05	
A2	0.90	1.00	0.95	
b	0.10	0.30	0.25	
С	0.10	0.22	0.11	
D	1.80	2.20	2.15	
Е	2.00	2.20	2.10	
E1	1.15	1.35	1.30	
е	e 0.650 BSC			
F	0.40	0.45	0.425	
L	0.25	0.40	0.30	
а	0°	8°		
All Dimensions in mm				



Package Outline Dimensions (continued)

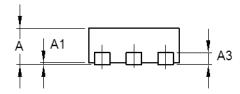
Please see http://www.diodes.com/package-outlines.html for the latest version.

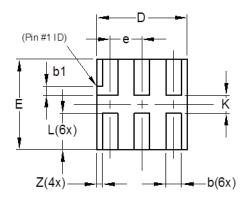
X1-DFN1010-6 (Type B)



X1-DFN1010-6				
	(Ty	pe B)		
Dim	Min	Min Max Typ		
Α	-	0.50	0.39	
A1	-	0.04	-	
b	0.12	0.20	0.15	
D	0.95	1.050	1.00	
Ε	0.95	1.050	1.00	
е	0.35 BSC			
e1	0.55 BSC			
L3	0.27	0.30	0.30	
L3a	0.32	0.40	0.35	
All Dimensions in mm				

X2-DFN1010-6





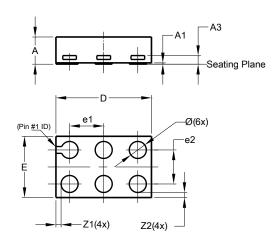
X2-DFN1010-6			
Dim	Min	Max	Тур
Α	_	0.40	0.39
A1	0.00	0.05	0.02
А3	_	_	0.13
b	0.14	0.20	0.17
b1	0.05	0.15	0.10
D	0.95	1.05	1.00
Е	0.95	1.05	1.00
е	_	_	0.35
L	0.35	0.45	0.40
K	0.15	_	_
Z	_	_	0.065
All Dimensions in mm			



Package Outline Dimensions (continued)

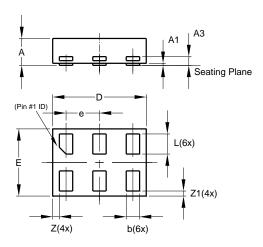
Please see http://www.diodes.com/package-outlines.html for the latest version.

X2-DFN1409-6



	X2-DFN1409-6			
Dim	Min	Max	Тур	
Α	-	0.40	0.39	
A1	0	0.05	0.02	
A3	-	-	0.13	
Ø	0.20	0.30	0.25	
D	1.35	1.45	1.40	
Е	0.85	0.95	0.90	
e1	-	-	0.50	
e2	-	-	0.50	
Z 1	-	-	0.075	
Z2	-	-	0.075	
All Dimensions in mm				

X2-DFN1410-6



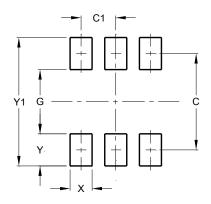
X2-DFN1410-6			
Dim	Min	Max	Тур
Α		0.40	0.39
A1	0.00	0.05	0.02
А3			0.13
b	0.15	0.25	0.20
D	1.35	1.45	1.40
E	0.95	1.05	1.00
е			0.50
L	0.25	0.35	0.30
Z			0.10
Z1	0.045	0.105	0.075
All Dimensions in mm			



Suggested Pad Layout

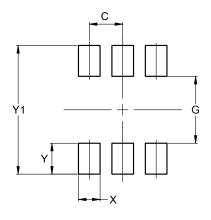
Please see http://www.diodes.com/package-outlines.html for the latest version.

SOT26



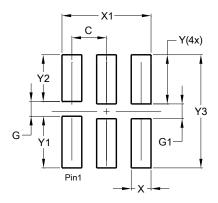
Dimensions	Value (in mm)
С	2.40
C1	0.95
G	1.60
Х	0.55
Y	0.80
Y1	3.20

SOT363



Dimensions	Value (in mm)
С	0.650
G	1.300
Х	0.420
Υ	0.600
Y1	2.500

X1-DFN1010-6 (Type B)



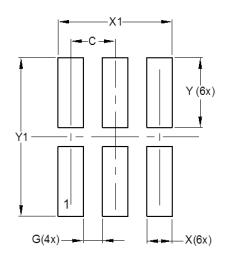
Dimensions	Value
	(in mm)
С	0.350
G	0.150
G1	0.150
Х	0.200
X1	0.900
Υ	0.500
Y1	0.525
Y2	0.475
Y3	1.150



Suggested Pad Layout (continued)

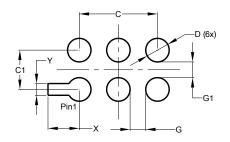
Please see http://www.diodes.com/package-outlines.html for the latest version.

X2-DFN1010-6



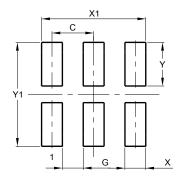
Dimensions	Value (in mm)
С	0.350
G	0.150
Х	0.200
X1	0.900
Y	0.550
Y1	1.250

X2-DFN1409-6



Dimensions	Value (in mm)
С	1.000
C1	0.500
D	0.300
G	0.200
G1	0.200
Х	0.400
Υ	0.150

X2-DFN1410-6



Dimensions	Value (in mm)
С	0.500
G	0.250
Х	0.250
X1	1.250
Υ	0.525
Y1	1.250



Mechanical Data

SOT26

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 (3)
- Weight: 0.016 grams (Approximate)

SOT363

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 (3)
- Weight: 0.006 grams (Approximate)

X1-DFN1010-6 (Type B)

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish NiPdAu Nickel Palladium Gold, Solderable per MIL-STD-202, Method 208 @4
- Weight: 0.001 grams (Approximate)

X2-DFN1010-6

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish NiPdAu Nickel Palladium Gold, Solderable per MIL-STD-202, Method 208 (4)
- Weight: 0.001 grams (Approximate)

X2-DFN1409-6

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish NiPdAu Nickel Palladium Gold, Solderable per MIL-STD-202, Method 208 (4)
- Weight: 0.002 grams (Approximate)

X2-DFN1410-6

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish NiPdAu Nickel Palladium Gold, Solderable per MIL-STD-202, Method 208 @4
- Weight: 0.002 grams (Approximate)



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74LVC2G14 15 of 15 October 2023

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