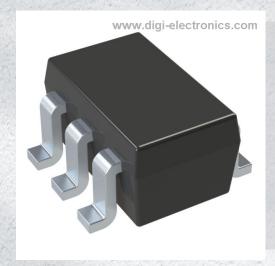


74LVC2G04DW-7 Datasheet



https://www.DiGi-Electronics.com

DiGi Electronics Part Number 74LVC2G04DW-7-DG

Manufacturer Diodes Incorporated

Manufacturer Product Number 74LVC2G04DW-7

Description IC INVERTER 2CH 2-INP SOT363

Detailed Description Inverter IC 2 Channel SOT-363



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:	Manufacturer:
74LVC2G04DW-7	Diodes Incorporated
Series:	Product Status:
74LVC	Active
Logic Type:	Number of Circuits:
Inverter	2
Number of Inputs:	Features:
2	
Voltage - Supply:	Current - Quiescent (Max):
1.65V ~ 5.5V	10 μΑ
Current - Output High, Low:	Input Logic Level - Low:
32mA, 32mA	0.7V ~ 0.8V
Input Logic Level - High:	Max Propagation Delay @ V, Max CL:
1.7V ~ 2V	3.8ns @ 5V, 50pF
Operating Temperature:	Mounting Type:
-40°C ~ 125°C	Surface Mount
Supplier Device Package:	Package / Case:
SOT-363	6-TSSOP, SC-88, SOT-363
Base Product Number:	
74LVC2G04	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	

8542.39.0001





74LVC2G04
DUAL INVERTERS

Description

The DIODES™ 74LVC2G04 is a dual 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 IoFF. The IoFF circuitry disables the output preventing damaging current backflow when the device is powered down.

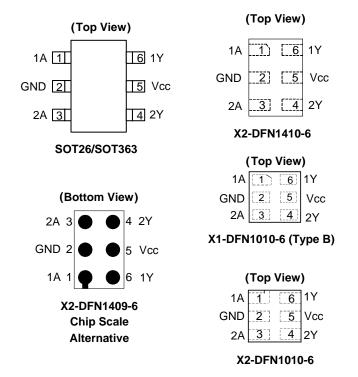
The gate performs the positive Boolean function:

$$Y = \overline{A}$$

Features

- Wide Supply Voltage Range from 1.65V to 5.5V
- ±24mA Output Drive at 3.0V
- CMOS Low Power Consumption
- Ioff 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 contact us or your local Diodes representative. https://www.diodes.com/quality/product-definitions/

Pin Assignment



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:

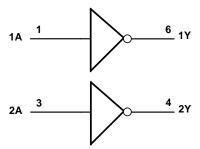
- 1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- 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
Vcc	5	Supply Voltage
1Y	6	Data Output

Logic Diagram



Function Table

Inputs	Output
Α	Υ
Н	L
L	Н

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

Symbol	Description	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
Vı	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
lıĸ	Input Clamp Current V _I < 0	-50	mA
Іок	Output Clamp Current Vo < 0	-50	mA
lo	Continuous Output Current	-50	mA
_	Continuous Current Through V _{DD} or GND	±100	mA
TJ	Operating Junction Temperature	-40 to +150	°C
Tstg	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) (@TA = +25°C, unless otherwise specified.)

Symbol		Parameter	Min	Max	Unit
.,	On a setting a Malta se	Operating	1.65	5.5	V
Vcc	Operating Voltage	Data Retention Only	1.5	_	V
		Vcc = 1.65V to 1.95V	0.65 x Vcc	_	
.,	High Lavel Innest Valtage	Vcc = 2.3V to 2.7V	1.7	_	V
VIH	High-Level Input Voltage	Vcc = 3V to 3.6V	2	_	V
		V _{CC} = 4.5V to 5.5V	0.7 x V _{CC}	_	
		Vcc = 1.65V to 1.95V	_	0.35 x Vcc	
.,	Law Laval lagus Valtaga	Vcc = 2.3V to 2.7V	_	0.7	\ /
VIL	Low-Level Input Voltage	V _{CC} = 3V to 3.6V	_	0.8	V
		Vcc = 4.5V to 5.5V	_	0.3 x Vcc	
Vı	Input Voltage		0	5.5	V
Vo	Output Voltage		0	Vcc	V
		V _{CC} = 1.65V	_	-4	
		Vcc = 2.3V	_	-8	
Іон	High-Level Output Current	Level Output Current	_	-16	mA
		Vcc = 3V		-24	
		V _{CC} = 4.5V	_	-32	
		Vcc = 1.65V	_	4	
		Vcc = 2.3V	_	8	
loL	Low-Level Output Current	V 2V	_	16	mA
		Vcc = 3V	_	24	
		Vcc = 4.5V	_	32	
		Vcc = 1.8V ± 0.15V, 2.5V ± 0.2V	_	20	
Δt/ΔV	Input Transition Rise or Fall Rate	$V_{CC} = 3.3V \pm 0.3V$	_	10	ns/V
		$V_{CC} = 5V \pm 0.5V$	_	5	
TA	Operating Free-Air Temperature	_	-40	+125	°C

Note:

Electrical Characteristics

Ch.a.l	Danamatan	Took Conditions	V	-40°C to	+85°C	-40°C to	+125°C	
Symbol	Parameter Test Conditions		Vcc	Min	Max	Min	Max	Unit
	Іон = -100μΑ	1.65V to 5.5V	Vcc - 0.1	_	Vcc - 0.1	_		
		Iон = -4mA	1.65V	1.2	_	0.95	_	
\ /	Lligh Lovel Output Voltage	Iон = -8mA	2.3V	1.9	_	1.7	_	V
Vон	High-Level Output Voltage	I _{OH} = -16mA	3V	2.4	_	2.2	_	V
		Iон = -24mA	3 V	2.3	_	2.0	_	
		Iон = -32mA	4.5V	3.8	_	3.4	_	
		I _{OL} = 100μA	1.65V to 5.5V	_	0.1	_	0.1	
		I _{OL} = 4mA	1.65V	_	0.45	_	0.70	
V	Low Lovel Output Valtage	IoL = 8mA	2.3V	_	0.3	_	0.45	V
Vol	Low-Level Output Voltage	IoL = 16mA	3V	_	0.4	_	0.60	V
		I _{OL} = 24mA	3 V	_	0.55	_	0.80	
		IoL = 32mA	4.5V	_	0.55	_	0.80	
lı .	Input Current	V _I = 5.5V or GND	0 to 5.5V	_	± 5	_	± 20	μΑ
loff	Power Down Leakage Current	V _I or V _O = 5.5V	0	_	± 10	_	± 20	μΑ
Icc	Supply Current	V _I = 5.5V or GND I _O = 0	1.65V to 5.5V	_	10	_	40	μA
Δlcc	Additional Supply Current	Input at V _{CC} -0.6V	3V to 5.5V	_	500	_	5000	μΑ

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



Package Characteristics (All typical values are at V_{CC} = 3.3V, T_A = +25°C.)

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	_	
0	Thermal Resistance	X2-DFN1410-6	(Nata 7)	_	430	_	°C/W
θJA	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	_	
	Thermal Resistance	X2-DFN1410-6	(Nata 7)	_	190	_	°C/W
θις	Junction-to-Case	X2-DFN1409-6	(Note 7)		225	_	C/VV
		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 From (Input)		To (Output)		= 1.8V .15V		= 2.5V).2V		: 3.3V :3V		= 5V).5V	Unit
	(input)	(Output)	Min	Max	Min	Max	Min	Max	Min	Max	
tpD	Α	Y	0.5	8.0	1.0	4.4	0.5	4.1	0.5	3.2	ns

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

Parameter	From	To (Output)		: 1.8V .15V		= 2.5V).2V	Vcc = ± 0	3.3V .3V	Vcc ±0	= 5V).5V	Unit
	(Input)	put) (Output)	Min	Max	Min	Max	Min	Max	Min	Max	
tpD	Α	Y	0.5	9.5	0.5	5.4	0.5	5.5	0.5	3.8	ns

Operating Characteristics

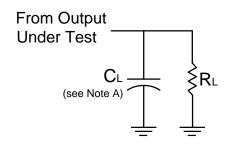
$T_A = +25$ °C

Parameter		Test Conditions	V _{CC} = 1.8V Typ	V _{CC} = 2.5V Typ	V _{CC} = 3.3V Typ	V _{CC} = 5V Typ	Unit
		Conditions	тур	тур	тур	тур	
CPD	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



Vac	Inp	outs	Ver	C	D.
Vcc	Vı	t _r /t _f	V _M	C∟	R∟
1.8V ± 0.15V	Vcc	≤ 2ns	Vcc/2	30pF	1kΩ
2.5V ± 0.2V	Vcc	≤ 2ns	Vcc/2	30pF	500Ω
$3.3V \pm 0.3V$	3V	≤ 2.5ns	1.5V	50pF	500Ω
5V ± 0.5V	Vcc	≤ 2.5ns	Vcc/2	50pF	500Ω

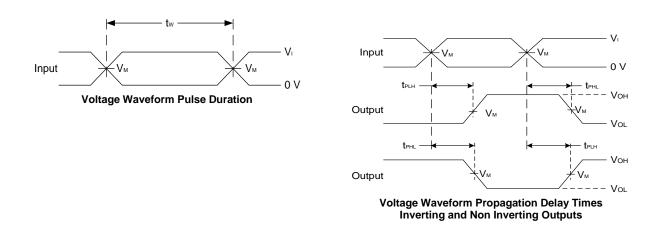


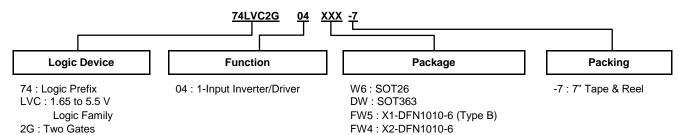
Figure 1 Load Circuit and Voltage Waveforms

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



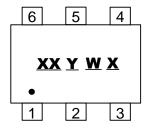
FX4: X2-DFN1409-6 FZ4: X2-DFN1410-6

Part Number		Package Package (Note 8)		Pookaga Siza	Packing (Note 9)	
Part Number	Suffix	Code	Fackage (Note o)	Package Size	Qty.	Carrier
74LVC2G04W6-7	-7	W6	SOT26	2.8mm x 2.2mm x 1.1mm 0.95mm Lead Pitch	3,000	Tape & Reel
74LVC2G04DW-7	-7	DW	SOT363	2.0mm x 2.0mm x 1.1mm 0.65mm Lead Pitch	3,000	Tape & Reel
74LVC2G04FW5-7	-7	FW5	X1-DFN1010-6 (Type B)	1.0mm x 1.0mm x 0.5mm 0.35mm Pad Pitch	5,000	Tape & Reel
74LVC2G04FW4-7	-7	FW4	X2-DFN1010-6	1.0mm x 1.0mm x 0.4mm 0.35mm Pad Pitch	5,000	Tape & Reel
74LVC2G04FX4-7	-7	FX4	X2-DFN1409-6 Chip Scale Alternative	1.4mm x 0.9mm x 0.4mm 0.5mm Pad Pitch	5,000	Tape & Reel
74LVC2G04FZ4-7	-7	FZ4	X2-DFN1410-6	1.4mm x 1.0mm x 0.4mm 0.5mm Pad Pitch	5,000	Tape & Reel

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

 \underline{Y} : Year 0 to 9 (ex: 2 = 2022) \underline{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
74LVC2G04W6-7	SOT26	Z2
74LVC2G04DW-7	SOT363	Z2



Marking Information (continued)

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

(Top View)

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

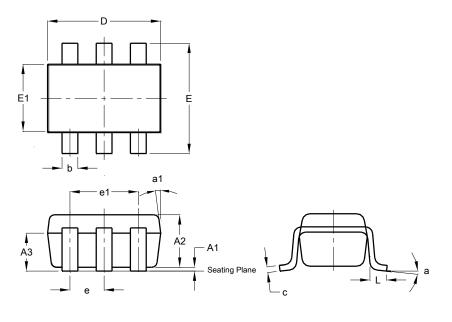
Part Number	Package	Identification Code
74LVC2G04FW4-7	X2-DFN1010-6	Z2
74LVC2G04FW5-7	X1-DFN1010-6 (Type B)	W2
74LVC2G04FX4-7	X2-DFN1409-6	X2
74LVC2G04FZ4-7	X2-DFN1410-6	Z2



Package Outline Dimensions

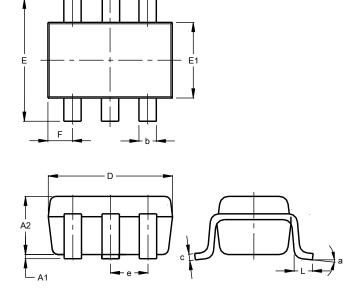
Please see http://www.diodes.com/package-outlines.html for the latest version.

SOT26



	SOT26			
Dim	Min	Max	Тур	
A1	0.013	0.10	0.05	
A2	1.00	1.30	1.10	
А3	0.70	0.80	0.75	
b	0.35	0.50	0.38	
С	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 Dimensions in mm				

SOT363



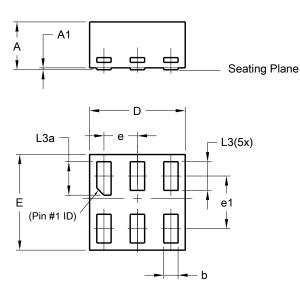
SOT363				
Dim	Min	Max	Тур	
A1	0.00	0.10	0.05	
A2	0.90	1.00	0.95	
b	0.10	0.30	0.25	
С	0.10	0.22	0.11	
D	1.80	2.20	2.15	
Е	2.00	2.20	2.10	
E1	1.15	1.35	1.30	
е	e 0.650 BSC			
F	0.40	0.45	0.425	
L	0.25	0.40	0.30	
а	0°	8°		
All Dimensions in mm				



Package Outline Dimensions (continued)

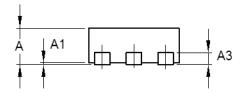
Please see http://www.diodes.com/package-outlines.html for the latest version.

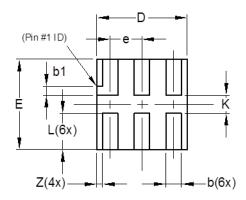
X1-DFN1010-6 (Type B)



	X1-DFN1010-6				
Dim	(Type B) Dim Min Max Typ				
Α	-	0.50	0.39		
A 1	-	0.04			
b	0.12	0.20	0.15		
D	0.95	1.050	1.00		
Е	0.95	1.050	1.00		
е	e 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





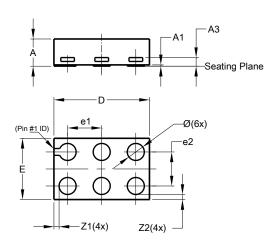
X2-DFN1010-6			
Dim	Min	Max	Тур
Α	_	0.40	0.39
A1	0.00	0.05	0.02
А3		_	0.13
b	0.14	0.20	0.17
b1	0.05	0.15	0.10
D	0.95	1.05	1.00
Е	0.95	1.05	1.00
е		_	0.35
L	0.35	0.45	0.40
K	0.15	_	_
Z		_	0.065
All Dimensions in mm			



Package Outline Dimensions (continued)

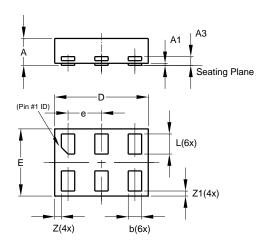
Please see http://www.diodes.com/package-outlines.html for the latest version.

X2-DFN1409-6



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

X2-DFN1410-6



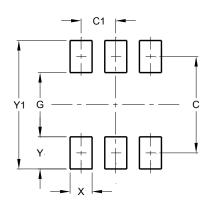
X2-DFN1410-6			
Dim	Min	Max	Тур
Α		0.40	0.39
A1	0.00	0.05	0.02
А3			0.13
b	0.15	0.25	0.20
D	1.35	1.45	1.40
E	0.95	1.05	1.00
е			0.50
L	0.25	0.35	0.30
Z			0.10
Z1	0.045	0.105	0.075
All Dimensions in mm			



Suggested Pad Layout

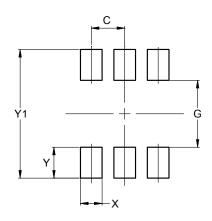
Please see http://www.diodes.com/package-outlines.html for the latest version.

SOT26



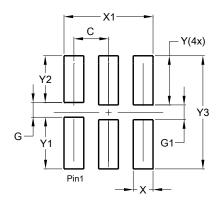
Dimensions	Value (in mm)
С	2.40
C1	0.95
G	1.60
Х	0.55
Y	0.80
Y1	3.20

SOT363



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

X1-DFN1010-6 (Type B)



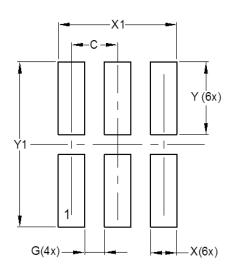
Dimensions	Value
	(in mm)
С	0.350
G	0.150
G1	0.150
Х	0.200
X1	0.900
Υ	0.500
Y1	0.525
Y2	0.475
Y3	1.150



Suggested Pad Layout (continued)

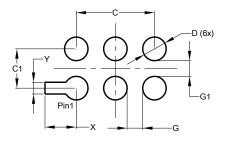
Please see http://www.diodes.com/package-outlines.html for the latest version.

X2-DFN1010-6



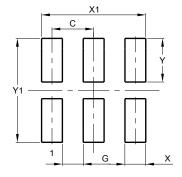
Dimensions	Value (in mm)
С	0.350
G	0.150
Х	0.200
X1	0.900
Y	0.550
Y1	1.250

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 @
- 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 @
- 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 @
- 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 @
- Weight: 0.002 grams (Approximate)



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