



SINGLE 2-INPUT EXCLUSIVE-OR GATE

Description

The Advanced, Ultra Low Power (AUP) CMOS logic family is designed for low power and extended battery life in portable applications.

The 74AUP1G86 is a single, two-input, positive exclusive-OR gate with a standard push-pull output designed for operation over a power supply range of 0.8V to 3.6V. The device is fully specified for partial power down applications using I_{OFF}. The I_{OFF} circuitry disables the output, preventing damaging current backflow when the device is powered down.

The gate performs the positive Boolean function:

$$Y = A \oplus B$$
 or $Y = \overline{A}B + A\overline{B}$

Features

- Advanced Ultra Low Power (AUP) CMOS
- Supply Voltage Range from 0.8V to 3.6V
- ± 4mA Output Drive at 3.0V
- Low Static Power Consumption

 $I_{CC} < 0.9 \mu A$

Low Dynamic Power Consumption

 $C_{PD} = 6.3pF$ (Typical at 3.6V)

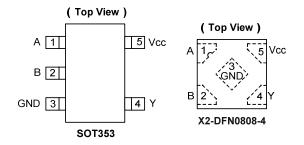
- Schmitt Trigger Action at all inputs makes the circuit tolerant for slower input rise and fall time. The hysteresis is typically 250mV at $V_{CC} = 3.0V$.
- I_{OFF} Supports Partial-Power-Down Mode Operation
- ESD Protection Exceeds JESD 22

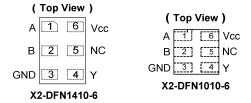
2000-V Human Body Model (A114)

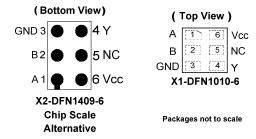
Exceeds 1000-V Charged Device Model (C101)

- Latch-Up Exceeds 100mA per JESD 78, Class I
- Leadless Packages Named per JESD30E
- Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

Pin Assignments







Applications

- Suited for Battery and Low Power Needs
- Wide array of products such as:
 - Tablets, E-readers
 - Cell Phones, Personal Navigation / GPS
 - MP3 Players, Cameras, Video Recorders
 - PCs. Ultrabooks, Notebooks, SSDs, Netbooks
 - Computer Peripherals, Hard Drives, CD/DVD ROMs

March 2015

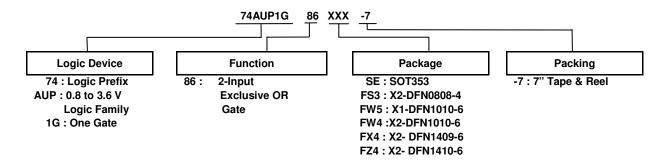
TVs, DVDs, DVRs, Set-Top Boxes

Notes:

- 1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant.
- 2. See http://www.diodes.com/quality/lead_free.html 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.



Ordering Information



Device	Package	Package	Package	7" Tape	and Reel
Device	Code	(Notes 4 & 5)	Size	Quantity	Part Number Suffix
74AUP1G86SE-7	SE	SOT353	2.0mm x 2.0mm x 1.1mm 0.65 mm lead pitch	3,000/Tape & Reel	-7
74AUP1G86FS3-7	FS3	X2-DFN0808-4	0.8mm x 0.8mm x 0.35mm 0.5 mm pad pitch (diamond)	5,000/Tape & Reel	-7
74AUP1G86FW5-7	FW5	X1-DFN1010-6	1.0mm x 1.0mm x 0.5mm 0.35 mm pad pitch	5,000/Tape & Reel	-7
74AUP1G86FW4-7	FW4	X2-DFN1010-6	1.0mm x 1.0mm x 0.4mm 0.35 mm pad pitch	5,000/Tape & Reel	-7
74AUP1G86FX4-7	FX4	X2-DFN1409-6 Chip Scale Alternative	1.4mm x 0.9mm x 0.4mm 0.5 mm pad pitch	5,000/Tape & Reel	-7
74AUP1G86FZ4-7	FZ4	X2-DFN1410-6	1.4mm x 1.0mm x 0.4mm 0.5 mm pad pitch	5,000/Tape & Reel	-7

Notes: 4. Pad layout as shown on Diodes Inc. suggested pad layout document AP02001, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.

Pin Descriptions

Pin Name	Function
Α	Data Input
В	Data Input
GND	Ground
Υ	Data Output
Vcc	Supply Voltage

Logic Diagram



Function Table

Inp	uts	Output
Α	В	Υ
L	L	L
L	Н	Н
Н	L	Н
Н	Н	L

^{5.} The taping orientation is located on our website at http://www.diodes.com/datasheets/ap02007.pdf.



Absolute Maximum Ratings (Notes 6 & 7) (@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
V _{CC}	Supply Voltage Range	-0.5 to +4.6	V
VI	Input Voltage Range	-0.5 to +4.6	V
Vo	Voltage Applied to Output in High or Low State	-0.5 to V _{CC} +0.5	V
I _{IK}	Input Clamp Current V _I <0	50	mA
I _{OK}	Output Clamp Current (V _O < 0)	50	mA
lo	Continuous Output Current (V _O = 0 to V _{CC})	±20	mA
Icc	Continuous Current Through V _{CC}	50	mA
I _{GND}	Continuous Current Through GND	-50	mA
T _J	Operating Junction Temperature	-40 to +150	℃
T _{STG}	Storage Temperature	-65 to +150	℃

Notes:

Recommended Operating Conditions (Note 8) (@T_A = +25 ℃, unless otherwise specified.)

Symbol	Pa	rameter	Min	Max	Unit
V _{CC}	Operating Voltage		0.8	3.6	V
VI	Input Voltage		0	3.6	V
Vo	Output Voltage		0	Vcc	V
		$V_{CC} = 0.8V$	_	-20	μΑ
		V _{CC} = 1.1V	_	-1.1	
	I _{OH} High-Level Output Current	$V_{CC} = 1.4V$	_	-1.7	
ЮН		V _{CC} = 1.65V	_	-1.9	mA
		$V_{CC} = 2.3V$	_	-3.1	
		$V_{CC} = 3.0V$	_	-4	
		V _{CC} = 0.8V	_	20	μΑ
		V _{CC} = 1.1V	_	1.1	
	Low Lovel Output Current	$V_{CC} = 1.4V$	_	1.7	
I _{OL}	Low-Level Output Current	V _{CC} = 1.65V	_	1.9	mA
		V _{CC} = 2.3V	_	3.1	
		V _{CC} = 3.0V	_	4]
Δt/ΔV	Input Transition Rise or Fall Rate	V _{CC} = 0.8V to 3.6V	_	200	ns/V
T _A	Operating Free-Air Temperature	•	-40	+125	∞

Note: 8. Unused inputs should be held at V_{CC} or Ground.

^{6.} Stresses beyond the absolute maximum may result in immediate failure or reduced reliability. These are stress values and device operation should be within recommend values.

^{7.} 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.



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

Cymbol	Parameter	Toot Conditions	V	T _A = -	+25℃	T _A = -40 ℃	c to +85°C	Unit	
Symbol	Parameter	Test Conditions	Vcc	Min	Max	Min	Max	Unit	
		_	0.8V to 1.65V	0.80 x V _{CC}	_	0.80 x V _{CC}			
V_{IH}	High-Level Input	_	1.65V to 1.95V	0.65 x V _{CC}	_	0.65 x V _{CC}		V	
VIH	Voltage	_	2.3V to 2.7V	1.6	_	1.6		V	
		_	3.0V to 3.6V	2.0	_	2.0			
		_	0.8V to 1.65V	_	0.30 x V _{CC}	_	0.30 x V _{CC}		
V_{IL}	Low-Level Input	_	1.65V to 1.95V	_	0.35 x V _{CC}	_	0.35 x V _{CC}	V	
V IL	Voltage	_	2.3V to 2.7V	_	0.7	_	0.7	•	
		_	3.0V to 3.6V	_	0.9	_	0.9		
		$I_{OH} = -20\mu A$	0.8V to 3.6V	V _{CC} - 0.1	_	V _{CC} - 0.1	_		
		I _{OH} = -1.1mA	1.1V	0.75 x V _{CC}	_	0.7 x V _{CC}	_		
		I _{OH} = -1.7mA	1.4V	1.11	_	1.03	_		
.,	High-Level	I _{OH} = -1.9mA	1.65V	1.32	_	1.3	_	\ /	
Vон	Output Voltage	I _{OH} = -2.3mA	0.01/	2.05	_	1.97	_	V	
		I _{OH} = -3.1mA	2.3V	1.9	_	1.85	_		
		I _{OH} = -2.7mA	0)/	2.72	_	2.67	_		
		I _{OH} = -4mA	3V	2.6	_	2.55	_		
		I _{OL} = 20μA	0.8V to 3.6V	_	0.1	_	0.1		
		I _{OL} = 1.1mA	1.1V	_	0.3 x V _{CC}	_	0.3 x V _{CC}		
		I _{OL} = 1.7mA	1.4V	_	0.31	_	0.37		
	Low-Level	I _{OL} = 1.9mA	1.65V	_	0.31	_	0.35		
V_{OL}	Output Voltage	I _{OL} = 2.3mA		_	0.31	_	0.33	V	
		I _{OL} = 3.1mA	2.3V	_	0.44	_	0.45		
		I _{OL} = 2.7mA		_	0.31	_	0.33		
		I _{OL} = 4mA	3V	_	0.44	_	0.45		
lı	Input Current	A or B Input V _I = GND to 3.6V	0 to 3.6V	_	±0.1	_	±0.5	μΑ	
I _{OFF}	Power Down Leakage Current	V_I or $V_O = 0V$ to 3.6V	0	_	0.2	_	0.6	μΑ	
ΔI_{OFF}	Delta Power Down Leakage Current	$V_1 \text{ or } V_0 = 0V \text{ to } 3.6V$	0 to 0.2V	_	0.2	_	0.6	μΑ	
Icc	Supply Current	$V_I = GND \text{ or } V_{CC}, I_O = 0$	0.8V to 3.6V	_	0.5	_	0.9	μA	
Δl _{CC}	Additional Supply Current	One Input at V _{CC} -0.6V Other Inputs at V _{CC} or GND	3.3V		40	_	50	μΑ	



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

Cumabal	Dawamata v	Test Conditions	Vac	T _A = -40	to 125 °C	Unit
Symbol	Parameter	lest Conditions	Vcc	Min	Max	Unit
		_	0.8V to 1.65V	0.80 x V _{CC}	_	
V _{IH}	High-Level Input	_	1.65V to 1.95V	0.70 x V _{CC}	_	V
VIH	Voltage	_	2.3V to 2.7 V	1.6	_	v
		_	3.0V to 3.6V	2.0	_	
		_	0.8V to 1.65V	_	0.25 x V _{CC}	
V _{IL}	Low-Level Input	_	1.65V to 1.95V	_	0.30 x V _{CC}	V
V IL	Voltage	_	2.3V to 2.7V	_	0.7	
		—	3.0V to 3.6V	_	0.9	
		$I_{OH} = -20\mu A$	0.8V to 3.6V	V _{CC} – 0.11	_	
		I _{OH} = -1.1mA	1.1V	$0.6 \times V_{CC}$	_	
		$I_{OH} = -1.7mA$	1.4V	0.93	_	
V _{OH}	High-Level Output	I _{OH} = -1.9mA	1.65V	1.17	_	v
VOH	Voltage	$I_{OH} = -2.3 \text{mA}$	2.3V	1.77	_	V
		I _{OH} = -3.1mA	2.31	1.67	_	
		I _{OH} = -2.7mA	3V	2.40	_	
		I _{OH} = -4 mA		2.30	_	
		$I_{OL} = 20\mu A$	0.8V to 3.6V	_	0.11	
		I _{OL} = 1.1mA	1.1V	_	0.33 x V _{CC}	
		$I_{OL} = 1.7 \text{mA}$	1.4V	_	0.41	
.,	Low-Level Output	I _{OL} = 1.9mA	1.65V	_	0.39	V
V _{OL}	Voltage	I _{OL} = 2.3mA	0.01/	_	0.36	v
		I _{OL} = 3.1mA	2.3V	_	0.50	
		I _{OL} = 2.7mA	2)./	_	0.36	
		I _{OL} = 4mA	3V	_	0.50	
II	Input Current	A or B Input V _I =GND to 3.6V	0 to 3.6V	_	±0.75	μA
l _{OFF}	Power Down Leakage Current	V_I or $V_O = 0$ to 3.6V	0	_	±3.5	μA
Δl _{OFF}	Delta Power Down Leakage Current	V_I or $V_O = 0$ to 3.6V	0 to 0.2V	_	±2.5	μA
I _{CC}	Supply Current	$V_I = GND \text{ or } V_{CC}, I_O = 0$	0.8V to 3.6V		3.0	μΑ
ΔI _{CC}	Additional Supply Current	Input at V _{CC} -0.6V Other Inputs at V _{CC} or GND	3.3V	_	75	μA



Switching Characteristics

C_L = 5pF, See Figure 1

Parameter	From Input	TO OUTPUT	V	T _A = +25 °C			T _A = -40 °C to +85 °C		T _A = -40 °C to +125 °C		Unit
			V _{CC}	Min	Тур	Max	Min	Max	Min	Max	Ullit
			0.8V	_	21.2	_	_	_	_	_	
	A or B	Y	1.2V ± 0.1V	2.3	5.9	13.1	2.1	14.3	2.1	15.8	ns
			1.5V ± 0.1V	1.8	4.1	7.7	1.6	8.8	1.6	9.7	
t _{pd}			1.8V ± 0.15V	1.5	3.3	5.9	1.4	6.9	1.4	7.6	
			2.5V ± 0.2V	1.2	2.6	4.4	1.1	5.3	1.1	5.9	
			$3.3V \pm 0.3V$	1.0	2.3	4.0	0.9	4.7	0.9	5.2	

C_L = 10pF, See Figure 1

Parameter	From Input	TO OUTPUT	V	T _A = +25 °C			T _A = -40 °C to +85 °C		T _A = -40 °C to +125 °C		Unit
			Vcc	Min	Тур	Max	Min	Max	Min	Max	Oilit
			V8.0	_	24.7	_	_	_	_	_	
	A or B	Y	1.2V ± 0.1V	2.6	6.8	14.8	2.4	16.2	2.4	17.9	ns
			1.5V ± 0.1V	2.2	4.8	8.7	1.9	10.0	1.9	11.0	
t _{pd}			1.8V ± 0.15V	1.8	3.9	6.7	1.7	8.0	1.7	8.8	
			$2.5V \pm 0.2V$	1.5	3.1	5.2	1.4	6.2	1.4	6.9	
			$3.3V \pm 0.3V$	1.3	2.98	4.8	1.3	5.6	1.3	6.2	

C_L = 15pF, See Figure 1

Parameter	From Input	то	V	Т	A = +25°	С	T _A = -40 °C to +85 °C		T _A = -40 ℃	to +125℃	Unit
i didilietei		OUTPUT	V _{CC}	Min	Тур	Max	Min	Max	Min	Max	Oilit
			V8.0	_	28.2	_	_	_	_	_	
		V	1.2V ± 0.1V	3.0	7.6	16.5	2.7	18.1	2.7	20.0	
	A or B		1.5V ± 0.1V	2.4	5.3	9.6	2.2	11.3	2.2	12.5	no
t _{pd} A	AUID	l t	1.8V ± 0.15V	2.1	4.4	7.5	1.9	9.0	1.9	9.9	ns
			$2.5V \pm 0.2V$	1.8	3.6	5.9	1.6	7.0	1.6	7.7	
			$3.3V \pm 0.3V$	1.6	3.3	5.4	1.5	6.4	1.5	7.1	

 $C_L = 30pF$, See Figure 1

Parameter	From Input	TO OUTPUT	V	T _A = +25 ℃			T _A = -40 °C to +85 °C		T _A = -40 °C to +125 °C		Unit
Farailleter			Vcc	Min	Тур	Min	Min	Max	Min	Max	Ullit
			V8.0	_	38.5	_	_	_	_	_	
			1.2V ± 0.1V	3.9	9.9	21.5	3.5	24.1	3.5	26.6	ns
	Λ ο τ D	V	1.5V ± 0.1V	3.2	6.9	12.5	2.8	14.8	2.8	16.3	
t _{pd}	A or B	Y	1.8V ± 0.15V	2.8	5.7	9.8	2.5	11.7	2.5	12.9	
			2.5V ± 0.2V	2.4	4.7	7.6	2.2	9.1	2.2	10.1	
			3.3V ± 0.3V	2.2	4.4	7.1	2.1	8.3	2.1	9.2	



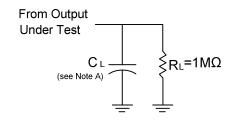
Operating and Package Characteristics (@T_A = +25 ℃, unless otherwise specified.)

	Parameter	Test Conditio	ns	Vcc	Тур	Unit
				0.8V	6.7	
				1.2V ± 0.1V	6.6	
	Power Dissipation	f = 1MH	lz	1.5V ± 0.1V	6.5	
C_{pd}	Capacitance	No Loa	d	1.8V ± 0.15V	6.5	pF
				2.5V ± 0.2V	6.4	
				3.3V ± 0.3V	6.3	
Ci	Input Capacitance	$V_i = V_{CC}$ or	GND	0V or 3.3V	1.5	pF
		SOT353		_	371	
		X2-DFN0808-4	(Nata 0)	_	430	
	Thermal Resistance	X1-DFN1010-6		_	435	20.444
θ_{JA}	Junction-to-Ambient	X2-DFN1010-6	(Note 9)	_	445	— °C/W
		X2-DFN1409-6		_	470	
		X2-DFN1410-6		_	460	
		SOT353			143	
		X2-DFN0808-4			240	
	Thermal Resistance	X1-DFN1010-6	(1)	_	250	20.444
θ_{JC}	Junction-to-Case	X2-DFN1010-6	(Note 9)	_	250	— °C/W
		X2-DFN1409-6		_	275	
		X2-DFN1410-6		_	265	

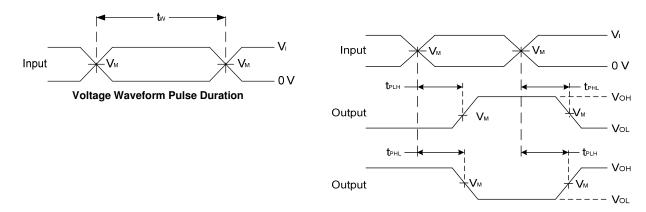
Note: 9. Test condition for each of the six package types: Device mounted on FR-4 substrate PC board, 2oz copper, with minimum recommended pad layout.



Parameter Measurement Information



V	Inputs		V	
V _{cc}	VI	t _r /t _f	V_{M}	CL
0.8V	V _{CC}	≤3ns	V _{CC} /2	5, 10, 15, 30pF
1.2V±0.1V	V _{CC}	≤3ns	V _{CC} /2	5, 10, 15, 30pF
1.5V±0.1V	V _{CC}	≤3ns	V _{CC} /2	5, 10, 15, 30pF
1.8V ±0.15V	V _{CC}	≤3ns	V _{CC} /2	5, 10, 15, 30pF
2.5V±0.2V	V _{CC}	≤3ns	V _{CC} /2	5, 10, 15, 30pF
3.3V±0.3V	V _{CC}	≤3ns	V _{CC} /2	5, 10, 15, 30pF



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}.



Marking Information

(1) SOT353

(Top View)

XX Y WX

2

3

XX: Identification code

Y: Year 0~9

<u>W</u>: Week: A~Z: 1~26 week; a~z: 27~52 week; z represents 52 and 53 week

 \underline{X} : $A^{\sim}Z$: Internal code

Part Number	Package	Identification Code
74AUP1G86SE-7	SOT353	XW

(2) X2-DFN0808-4, X1-DFN1010-6, X2-DFN1010-6, X2-DFN1409-6 and X2-DFN1410-6

(Top View)

XX $\underline{Y}\underline{W}\underline{X}$ \underline{XX} : Identification Code \underline{Y} : Year: 0~9

 \overline{W} : Week : A~Z : 1~26 week;

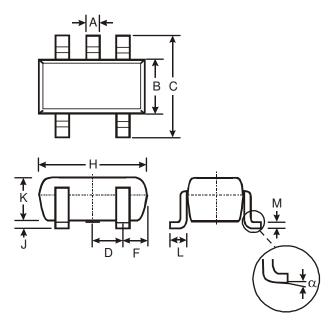
a~z: 27~52 week; z represents

52 and 53 week X: A~Z: Internal code

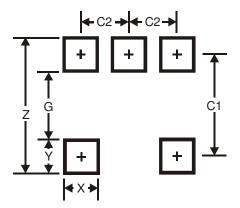
Part Number	Package	Identification Code
74AUP1G86FS3-7	X2-DFN0808-4	YX
74AUP1G86FW5-7	X1-DFN1010-6	QW
74AUP1G86FW4-7	X2-DFN1010-6	XW
74AUP1G86FX4-7	X2-DFN1409-6	HN
74AUP1G86FZ4-7	X2-DFN1410-6	XW



SOT353 Package Outline Dimensions and Suggested Pad Layout



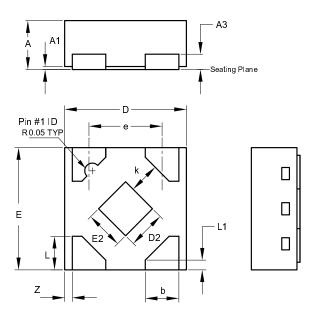
SOT353				
Dim	Min Max Typ			
Α	0.10	0.30	0.25	
В	1.15	1.35	1.30	
С	2.00	2.20	2.10	
D		0.65 Typ)	
F	0.40	0.45	0.425	
Н	1.80	2.20	2.15	
J	0	0.10	0.05	
K	0.90	1.00	1.00	
L	0.25	0.40	0.30	
М	0.10	0.22	0.11	
α	0°	8°	-	
All Dimensions in mm				



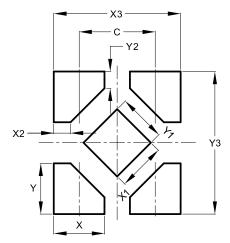
Dimensions	Value (in mm)	
Z	2.5	
G	1.3	
Х	0.42	
Υ	0.6	
C1	1.9	
C2	0.65	



X2-DFN0808-4 Package Outline Dimensions and Suggested Pad Layout



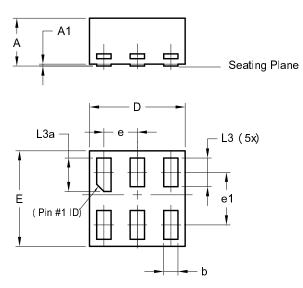
	X2-DFN0808-4				
Dim	Min	Max	Тур		
Α	0.25	0.35	0.30		
A 1	0	0.04	0.02		
A3	-	-	0.13		
b	0.17	0.27	0.22		
D	0.75	0.85	0.80		
D2	0.15	0.35	0.25		
Е	0.75	0.85	0.80		
E2	0.15	0.35	0.25		
е	-	-	0.48		
K	0.20	-	-		
L	0.17	0.27	0.22		
L1	0.02	0.12	0.07		
Z	-	-	0.05		
All Dimensions in mm					



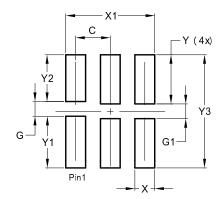
Dimensions	Value
O	0.480
Х	0.320
X1	0.300
X2	0.106
Х3	0.800
Υ	0.320
Y 1	0.300
Y2	0.106
Y3	0.900



X1-DFN1010-6 (Type B) Package Outline Dimensions and Suggested Pad Layout



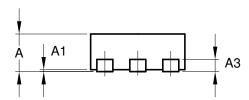
	X1-DFN1010-6 (Type B)				
Dim	Dim Min Max Typ				
Α	-	0.50	0.39		
A1	-	0.04	-		
b	0.12	0.20	0.15		
D	0.95	1.050	1.00		
Е	0.95	1.050	1.00		
е		0.35 B	SC		
e1		0.55 B	SC		
L3	0.27	0.30	0.30		
L3a	0.32	0.40	0.35		
All	All Dimensions in mm				

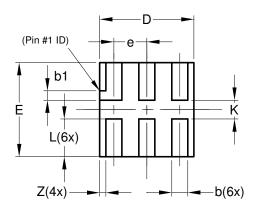


Dimensions	Value	
Dillielisions	(in mm)	
С	0.350	
G	0.150	
G1	0.150	
Х	0.200	
X1	0.900	
Υ	0.500	
Y1	0.525	
Y2	0.475	
Y3	1.150	

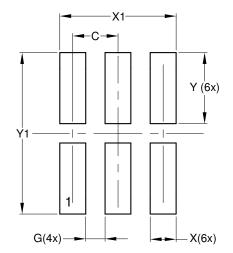


X2-DFN1010-6 Package Outline Dimensions and Suggested Pad Layout





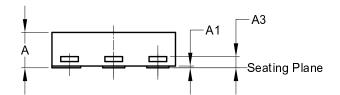
X2-DFN1010-6				
Dim	Min	Max	Тур	
Α	_	0.40	0.39	
A1	0.00	0.05	0.02	
A3	_	_	0.13	
b	0.14	0.20	0.17	
b1	0.05	0.15	0.10	
D	0.95	1.05	1.00	
E	0.95	1.05	1.00	
е	_	_	0.35	
L	0.35	0.45	0.40	
K	0.15	-	_	
Z	_	_	0.065	
All Dimensions in mm				

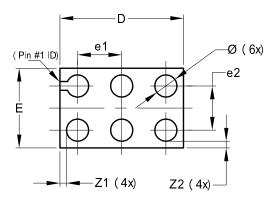


Dimensions	Value (in mm)	
С	0.350	
G	0.150	
Х	0.200	
X1	0.900	
Υ	0.550	
Y1	1.250	

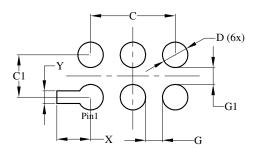


X2-DFN1409-6 Package Outline Dimensions and Suggested Pad Layout





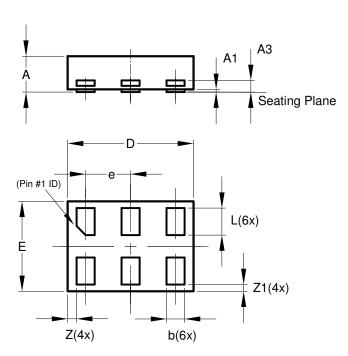
	X2-DFN1409-6				
Dim	Min	Max	Тур		
Α	-	0.40	0.39		
A1	0	0.05	0.02		
A3	-	-	0.13		
Ø	0.20	0.30	0.25		
D	1.35	1.45	1.40		
Е	0.85	0.95	0.90		
e1	-	-	0.50		
e2	-	-	0.50		
Z 1	-	-	0.075		
Z2	-	-	0.075		
All Dimensions in mm					



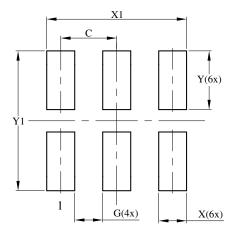
Dimensions	Value (in mm)
С	1.000
C1	0.500
D	0.300
G	0.200
G1	0.200
X	0.400
Υ	0.150



X2-DFN1410-6 Package Outline Dimensions and Suggested Pad Layout



X2-DFN1410-6				
Dim	Min	Max	Тур	
Α	_	0.40	0.39	
A1	0.00	0.05	0.02	
A3	_	_	0.13	
b	0.15	0.25	0.20	
D	1.35	1.45	1.40	
Е	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				



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



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