



74AUP2G04
DUAL INVERTERS

Description

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

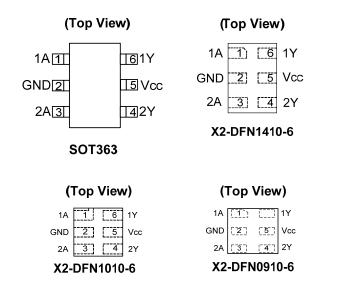
The 74AUP2G04 is composed of two inverters with standard push-pull outputs designed for operation over a power supply range of 0.8V to 3.6V. The device is fully specified for partial power down applications using $I_{\rm OFF}$. The $I_{\rm OFF}$ circuitry disables the output preventing damaging current backflow when the device is powered down. The gates perform the positive Boolean function:

$$Y = \overline{A}$$

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} < 0.9μA
- Low Dynamic Power Consumption
- C_{PD} = 4pF Typical at 3.6V
- Schmitt Trigger Action at All Inputs Make the Circuit Tolerant for Slower Input Rise and Fall Time. The hysteresis is typically 250mV at $V_{\text{CC}} = 3.0\text{V}$
- I_{OFF} Supports Partial-Power-Down Mode Operation
- ESD Protection per JESD 22
 - Exceeds 200-V Machine Model (A115)
 - Exceeds 2000-V Human Body Model (A114)
 - Exceeds 1000-V Charged Device Model (C101)
- Latch-Up Exceeds 100 mA per JESD 78, Class I
- Leadless packages per JESD30E
 - DFN1410 denoted as X2-DFN1410-6
 - DFN1010 denoted as X2-DFN1010-6
 - DFN0910 denoted as X2-DFN0910-6
- Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

Pin Assignments



Applications

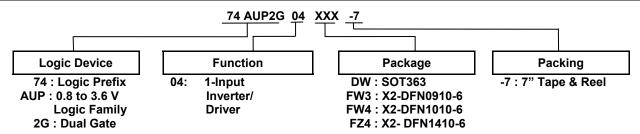
- Suited for Battery and Low Power Needs
- Wide array of products such as:
 - PCs, Networking, Notebooks, netbooks, PDAs
 - Tablet Computers, E-readers
 - Computer Peripherals, Hard Drives, CD/DVD ROM
 - TV, DVD, DVR, Set Top Box
 - Cell Phones, Personal Navigation / GPS
 - MP3 players ,Cameras, Video Recorders

Notes:

- 1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant.
- 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



Part Number	Package	Package	Package	7" Tape	and Reel
Part Number	Code	(Notes 4 & 5)	Size	Quantity	Part Number Suffix
74AUP2G04DW-7	DW	SOT363	2.0mm X 2.0mm X 1.1mm 0.65 mm lead pitch	3000/Tape & Reel	-7
74AUP2G04FW3-7	FW3	X2-DFN0910-6	0.9mm X 1.0mm X 0.35mm 0.35 mm pad pitch	5000/Tape & Reel	-7
74AUP2G04FW4-7	FW4	X2-DFN1010-6	1.0mm X 1.0mm X 0.4mm 0.35 mm pad pitch	5000/Tape & Reel	-7
74AUP2G04FZ4-7	FZ4	X2-DFN1410-6	1.4mm X 1.0mm X 0.4mm 0.5 mm pad pitch	5000/Tape & Reel	-7

Notes:

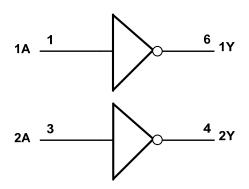
Pin Descriptions

Pin Name	Pin NO	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				

Function Table

Inputs	Output
nA	nY
Н	L
L	Н

Logic Diagram



^{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.

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



Absolute Maximum Ratings (Notes 6,7) (@TA = +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
ESD MM	Machine Model ESD Protection	200	V
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
l _{IK}	Input Clamp Current V _I <0	-50	mA
I _{OK}	Output Clamp Current (V _O < 0)	-50	mA
Io	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	°C
T _{STG}	Storage Temperature	-65 to +150	°C

Notes:

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

Symbol	Paran	neter	Min	Max	Unit
Vcc	Operating Voltage	_	0.8	3.6	V
VI	Input Voltage		0	3.6	V
Vo	Output Voltage		0	V _{CC}	V
		V _{CC} = 0.8V	_	-20	μΑ
		V _{CC} = 1.1V	_	-1.1	
	High Loyal Output Current	V _{CC} = 1.4V	_	-1.7	
I _{OH}	High-Level Output Current	V _{CC} = 1.65V	_	-1.9	mA
		V _{CC} = 2.3V	_	-3.1	
		V _{CC} = 3.0V	_	-4	
		V _{CC} = 0.8V	_	20	μΑ
	Low-Level Output Current	V _{CC} = 1.1V	_	1.1	
		V _{CC} = 1.4V	_	1.7	
loL	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
TA	Operating Free-Air Temperature	_	-40	125	°C

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.)

Symbol	Parameter	Test Conditions	V	T _A = -	+25°C	T _A = -40°C	C to +85°C	Unit
Symbol	Parameter	rest Conditions	V _{CC}	Min	Max	Min	Max	Unit
		_	0.8V to 1.65V	0.80 X V _{CC}	_	0.80 X V _{CC}	_	
.,	High-Level Input	_	1.65V to 1.95V	0.65 X V _{CC}	_	0.65 X V _{CC}	_	V
V_{IH}	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
VIL	Voltage	_	2.3V to 2.7V	_	0.7	_	0.7	V
		_	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 Output	I _{OH} = -1.9mA	1.65V	1.32	_	1.3	_	.,
VOH	V _{OH} 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 Output	I _{OL} = 1.9mA	1.65V	_	0.31	_	0.35	
V_{OL}	Voltage	I _{OL} = 2.3mA	0.01	_	0.31	_	0.33	V
		I _{OL} = 3.1mA	2.3V	_	0.44	_	0.45	
		I _{OL} = 2.7mA	0) (_	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	0V to 3.6V	_	± 0.1	_	± 0.5	μΑ
I _{OFF}	Power Down Leakage Current	V_I or $V_O = 0V$ to 3.6V	0V	_	± 0.2	_	± 0.6	μΑ
Δl _{OFF}	Delta Power Down Leakage Current	V_I or $V_O = 0V$ to 3.6V	0V 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	μΑ
ΔI _{CC}	Additional Supply Current	One input at V _{CC} -0.6V Other input at V _{CC} or GND	3.3V	_	40	_	50	μΑ



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

Symbol	Parameter	Test Conditions	V	T _A = -40°C t	:o +125 °C	Unit	
Syllibol	raiailletei	rest conditions	V _{CC}	Min	Max	Oill	
		_	0.8V to 1.65V	0.80 X V _{CC}	<u> </u>		
V _{IH}	High-Level Input Voltage	_	1.65V to 1.95V	0.70 X V _{CC}	_	V	
VIH	Trigit-Level input voitage	_	2.3V to 2.7V	1.6	_	V	
		_	3.0V to 3.6V	2.0	_		
		_	0.8V to 1.65V	_	0.25 X V _{CC}		
VIL	Low-Level Input Voltage	_	1.65V to 1.95V		0.30 X V _{CC}	V	
VIL	Low-Level Input Voltage	_	2.3V to 2.7V	1	0.7	V	
		_	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 X V _{CC}	_		
		I _{OH} = -1.7mA	1.4V	0.93	_		
.,	High Lavel Output Valtage	I _{OH} = -1.9mA	1.65V	1.17	_	٧	
V _{OH}	High-Level Output Voltage	I _{OH} = -2.3mA	0.01/	1.77	_		
		I _{OH} = -3.1mA	2.3V	1.67	_		
		I _{OH} = -2.7mA	0) (2.40	_		
		I _{OH} = -4mA	3V	2.30	_		
		I _{OL} = 20μA	0.8V to 3.6V	_	0.11		
		I _{OL} = 1.1mA	1.1V	_	0.33 X V _{CC}		
		I _{OL} = 1.7mA	1.4V	_	0.41		
		I _{OL} = 1.9mA	1.65V	_	0.39	.,	
V _{OL}	Low-Level Output Voltage	I _{OL} = 2.3mA		_	0.36	V	
		I _{OL} = 3.1mA	2.3V	_	0.50		
		I _{OL} = 2.7mA		_	0.36		
		I _{OL} = 4mA	3V	_	0.50		
l _l	Input Current	A or B Input, V_I = GND to 3.6V	0V to 3.6V	_	± 0.75	μA	
loff	Power Down Leakage Current	V_1 or $V_0 = 0V$ to 3.6V	0V	_	± 1.0	μA	
Δloff	-	V_1 or $V_0 = 0V$ to 3.6V	0V to 0.2V	_	± 2.5	μA	
Icc	Supply Current	$V_1 = GND \text{ or } V_{CC}, I_0 = 0$	0.8V to 3.6V	_	1.4	μA	
	Additional Supply Current	Input at V _{CC} -0.6V Other input at V _{CC} or GND	3.3V	_	75	μА	

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

	Parameter	Parameter Test Conditions		Тур	Unit
			0.8V	5.1	
			1.2V ± 0.1V	5.2	
_	Dawer dissination consistence	f = 1MHz	1.5V ± 0.1V	5.2	"F
$C_{\sf pd}$	Power dissipation capacitance	No Load	1.8V ± 0.15V	5.5	pF
			2.5V ± 0.2V	5.7	
			3.3V ± 0.3V	6.0	
Cı	Input Capacitance	$V_i = V_{CC}$ or GND	0V or 3.3V	2.0	pF
Co	Output Capacitance	$V_O = V_{CC}$ or GND	0V	3.5	pF



Switching Characteristics

 C_L = 5pF see Figure 1

Parameter	From	TO OUTPUT	Voc	T _A = +25°C			T _A = -40°C to +85°C		T _A = -40°C to +125°C		Unit
raiailletei	Input		Vcc	Min	Тур	Max	Min	Max	Min	Max	Ollic
			V8.0	_	19.2	_	_	_	_	_	
	4	Y	1.2V ± 0.1V	2.6	5.5	11.3	2.3	12.5	2.3	13.9	
			1.5V ± 0.1V	1.8	3.6	6.4	1.6	7.4	1.6	8.2	no
t _{pd}	Α		1.8V ± 0.15V	1.5	2.9	5.0	1.4	5.9	1.4	6.5	ns
			2.5V ± 0.2V	1.2	2.4	3.9	1.1	4.5	1.1	5.0	
			$3.3V \pm 0.3V$	0.9	1.9	3.2	0.8	3.9	0.8	4.3	

C_L = 10pF see Figure 1

Parameter	From	то	V _{CC}		T _A = +25°C	;	T _A = -40°0	C to +85°C	T _A = -40°C	to +125°C	Unit
Input	OUTPUT	VCC VCC	Min	Тур	Max	Min	Max	Min	Max	Oilit	
			V8.0	_	23.8	_	_	_	_	_	
		Y	1.2V ± 0.1V	3.1	6.5	13.4	2.9	15.1	2.9	16.6	ns
4	۸		1.5V ± 0.1V	2.3	4.2	7.5	2.1	8.7	2.1	9.6	
t _{pd}	Α		1.8V ± 0.15V	2.0	3.5	5.9	1.8	7.0	1.8	7.7	
			2.5V ± 0.2V	1.6	2.9	4.6	1.5	5.4	1.5	6.0	
			3.3V ± 0.3V	1.2	2.4	3.8	1.1	4.5	1.1	5.0	

C_L = 15pF see Figure 1

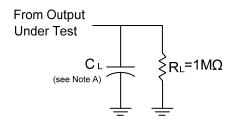
Parameter	From	то	V		T _A = +25°C	;	T _A = -40°0	C to +85°C	T _A = -40°C	to +125°C	Unit
Input	OUTPUT	V _{CC}	Min	Тур	Max	Min	Max	Min	Max	Oilit	
		V8.0	_	28.0	_	_	_	_	_		
			1.2V ± 0.1V	3.5	7.4	14.3	3.3	17.4	3.3	19.1	ns
4	۸	Y	1.5V ± 0.1V	2.6	4.7	8.6	2.4	10.0	2.4	11.0	
t _{pd} A	A		1.8V ± 0.15V	2.3	4.0	6.7	2.1	8.0	2.1	8.8	
			2.5V ± 0.2V	2.1	3.3	5.1	1.8	6.1	1.8	6.8	
			3.3V ± 0.3V	1.6	2.8	4.2	1.4	5.0	1.4	5.5	

C_L = 30pF see Figure 1

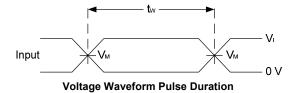
Parameter	From	то	V		T _A = +25°C	;	$T_A = -40^{\circ}$	C to +85°C	T _A = -40°C	to +125°C	Unit
Input (OUTPUT	Vcc	Min	Тур	Max	Min	Max	Min	Max	Onit	
			V8.0	_	40.3	_	_	_	_	_	
		Y	1.2V ± 0.1V	4.8	9.8	17.6	4.4	20.9	4.4	23.0	
	۸		1.5V ± 0.1V	3.6	6.3	10.8	3.2	12.9	3.2	14.2	ns
t_{pd}	Α		1.8V ± 0.15V	3.2	5.3	9.0	2.9	10.5	2.9	11.6	
			2.5V ± 0.2V	2.4	4.5	6.5	2.6	7.6	2.6	8.4	
			3.3V ± 0.3V	1.8	3.8	5.4	2.1	6.2	2.1	6.9	

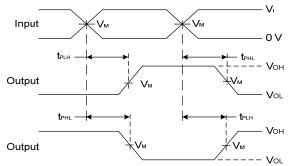


Parameter Measurement Information



V	Inputs			•
V _{CC}	VI	t _r /t _f	V _M	CL
0.8V	V _{CC}	≤3 ns	V _{CC} /2	5, 10, 15, 30pF
1.2V ± 0.1V	V _{CC}	≤3 ns	V _{CC} /2	5, 10, 15, 30pF
1.5V ± 0.1V	V _{CC}	≤3 ns	V _{CC} /2	5, 10, 15, 30pF
1.8V ± 0.15V	Vcc	≤3 ns	V _{CC} /2	5, 10, 15, 30pF
2.5V ± 0.2V	V _{CC}	≤3 ns	V _{CC} /2	5, 10, 15, 30pF
$3.3V \pm 0.3V$	V _{CC}	≤3 ns	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) SOT363

5 4

XXYWX1 2 3 XX: Identification code

Y: Year 0~9

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
74AUP2G04DW-7	SOT363	SM

(2) X2-DFN1410-6, X2-DFN1010-6, X2-DFN0910-6

(Top View)

XX XX: Identification Code

 \overline{Y} : Year: 0~9

W: Week: A~Z: 1~26 week; a~z: 27~52 week; z represents

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

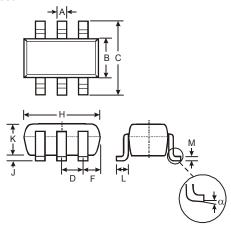
Part Number	Package	Identification Code
74AUP2G04FZ4	X2-DFN1410-6	RM
74AUP2G04FW4	X2-DFN1010-6	SM
74AUP2G04FW3	X2-DFN0910-6	MM



Package Outline Dimensions (All dimensions in mm.)

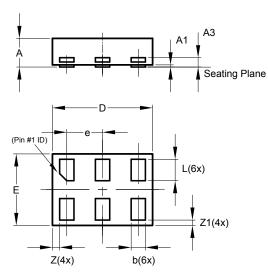
Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for latest version.

(1) Package Type SOT363



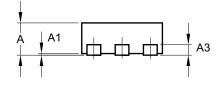
SOT363		
Dim	Min	Max
Α	0.10	0.30
В	1.15	1.35
С	2.00	2.20
D	0.65	Тур
F	0.40	0.45
Н	1.80	2.20
J	0	0.10
K	0.90	1.00
L	0.25	0.40
М	0.10	0.22
α	0°	8°
All Dimensions in mm		

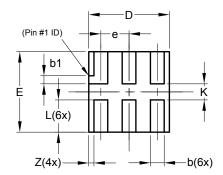
(2) Package Type X2-DFN1410-6



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
Z 1	0.045	0.105	0.075
All Dimensions in mm			

(3) Package Type: X2-DFN1010-6





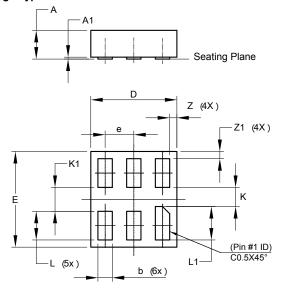
X2-DFN1010-6			
Dim	Min	Max	Тур
Α	_	0.40	0.39
A1	0.00	0.05	0.02
A3	_	_	0.13
b	0.14	0.20	0.17
b1	0.05	0.15	0.10
D	0.95	1.05	1.00
Е	0.95	1.05	1.00
e		_	0.35
L	0.35	0.45	0.40
K	0.15		_
Z			0.065
All Dimensions in mm			



Package Outline Dimensions (cont.) (All dimensions in mm.)

Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for latest version.

(4) Package Type: X2-DFN0910-6

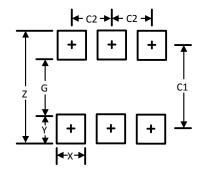


X2-DFN0910-6			
Dim	Min	Max	Тур
Α	-	0.35	0.30
A1	0	0.03	0.02
b	0.10	0.20	0.15
D	0.85	0.95	0.90
E	0.95	1.05	1.00
е	-	-	0.30
K	0.20	-	-
K1	0.25	-	-
L	0.25	0.35	0.30
L1	0.30	0.40	0.35
Z	-	-	0.075
Z 1	-	-	0.075
All Dimensions in mm			

Suggested Pad Layout

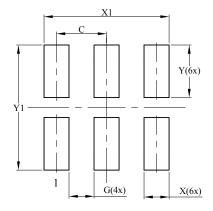
Please see AP02001 at http://www.diodes.com/datasheets/ap02001.pdf for the latest version.

(1) Package Type SOT363



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

(2) Package Type X2-DFN1410-6



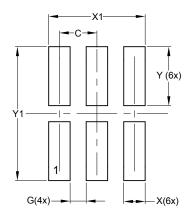
Dimensions	Value (in mm)
С	0.500
G	0.250
Х	0.250
X1	1.250
Y	0.525
Y1	1.250



Suggested Pad Layout

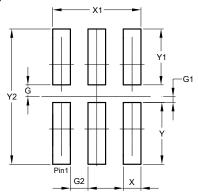
Please see AP02001 at http://www.diodes.com/datasheets/ap02001.pdf for the latest version.

(3) Package Type: X2-DFN1010-6



Dimensions	Value (in mm)
G	0.100
G1	0.050
G2	0.150
Х	0.150
X1	0.750
Y	0.525
Y1	0.475
Y2	1.150

(4) Package Type: X2-DFN0910-6



Dimensions	Value (in mm)
С	0.350
G	0.150
Х	0.200
X1	0.900
Y	0.550
Y1	1 250



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