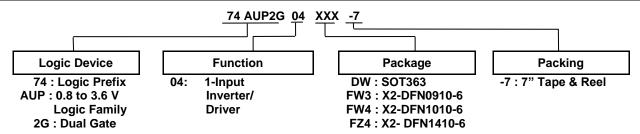


## **Ordering Information**



Part Number	Package	Package	Package	7" Tape	and Reel
Fait 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:

- 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.pdf

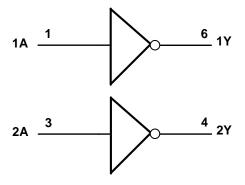
### **Pin Descriptions**

Pin Name	Pin NO	Function
1A	1	Data Input
GND	2	Ground
2A	3	Data Input
2Y	4	Data Output
V <sub>CC</sub>	5	Supply Voltage
1Y	6	Data Output

# Function Table

Inputs	Output
nA	nY
Н	L
L	Н

# **Logic Diagram**





## Absolute Maximum Ratings (Notes 6,7) (@T<sub>A</sub> = +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
Vcc	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 <sub>CC</sub> +0.5	V
l <sub>IK</sub>	Input Clamp Current V <sub>I</sub> <0	-50	mA
I <sub>OK</sub>	Output Clamp Current (V <sub>O</sub> < 0)	-50	mA
Io	Continuous Output Current (V <sub>O</sub> = 0 to V <sub>CC</sub> )	±20	mA
Icc	Continuous Current through V <sub>CC</sub>	50	mA
I <sub>GND</sub>	Continuous Current through GND	-50	mA
TJ	Operating Junction Temperature	-40 to +150	°C
T <sub>STG</sub>	Storage Temperature	-65 to +150	°C

Notes:

# Recommended Operating Conditions (Note 8) (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Symbol	Param	neter	Min	Max	Unit
Vcc	Operating Voltage	_	0.8	3.6	V
VI	Input Voltage		0	3.6	V
Vo	Output Voltage		0	V <sub>CC</sub>	V
		V <sub>CC</sub> = 0.8V	_	-20	μΑ
		V <sub>CC</sub> = 1.1V	_	-1.1	
	High Loyal Output Current	V <sub>CC</sub> = 1.4V	_	-1.7	
ЮН	I <sub>OH</sub> High-Level Output Current	V <sub>CC</sub> = 1.65V	_	-1.9	mA
		V <sub>CC</sub> = 2.3V	_	-3.1	
		V <sub>CC</sub> = 3.0V	_	-4	
		V <sub>CC</sub> = 0.8V	_	20	μΑ
		V <sub>CC</sub> = 1.1V	_	1.1	
	Low Lovel Output Current	V <sub>CC</sub> = 1.4V	_	1.7	
IOL	I <sub>OL</sub> Low-Level Output Current	V <sub>CC</sub> = 1.65V	_	1.9	mA
		V <sub>CC</sub> = 2.3V	_	3.1	
		V <sub>CC</sub> = 3.0V	_	4	
Δt/ΔV	Input Transition Rise or Fall Rate	V <sub>CC</sub> = 0.8V to 3.6V	_	200	ns/V
T <sub>A</sub>	Operating Free-Air Temperature	_	-40	125	°C

Note:

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

<sup>6.</sup> 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.

<sup>7.</sup> 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<sub>A</sub> = +25°C, unless otherwise specified.)

Symbol	Doromotor	Toot Conditions	V	T <sub>A</sub> = -	+25°C	T <sub>A</sub> = -40°C	C to +85°C	Unit
Symbol	Parameter	Test Conditions	V <sub>CC</sub>	Min	Max	Min	Max	Unit
		_	0.8V to 1.65V	0.80 X V <sub>CC</sub>	_	0.80 X V <sub>CC</sub>	_	
V <sub>IH</sub>	High-Level Input	_	1.65V to 1.95V	0.65 X V <sub>CC</sub>	_	0.65 X V <sub>CC</sub>	_	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 <sub>CC</sub>	_	0.30 X V <sub>CC</sub>	
VIL	Low-Level Input	_	1.65V to 1.95V	_	0.35 X V <sub>CC</sub>	_	0.35 X V <sub>CC</sub>	V
V IL	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 <sub>CC</sub> – 0.1	_	V <sub>CC</sub> – 0.1	_	
		I <sub>OH</sub> = -1.1mA	1.1V	0.75 X V <sub>CC</sub>	_	0.7 X V <sub>CC</sub>	_	
		$I_{OH} = -1.7mA$	1.4V	1.11	_	1.03	_	
.,	High-Level Output	I <sub>OH</sub> = -1.9mA	1.65V	1.32	_	1.3	_	V
VOH	VoH Voltage	I <sub>OH</sub> = -2.3mA	2.21/	2.05	_	1.97	_	V
		I <sub>OH</sub> = -3.1mA	2.3V	1.9	_	1.85	_	
		I <sub>OH</sub> = -2.7mA	0)/	2.72	_	2.67	_	
		I <sub>OH</sub> = -4mA	3V	2.6	_	2.55	_	
		I <sub>OL</sub> = 20μA	0.8V to 3.6V	_	0.1	_	0.1	
		I <sub>OL</sub> = 1.1mA	1.1V	_	0.3 X V <sub>CC</sub>	_	0.3 X V <sub>CC</sub>	
		I <sub>OL</sub> = 1.7mA	1.4V	_	0.31	_	0.37	
.,	Low-Level Output	I <sub>OL</sub> = 1.9mA	1.65V	_	0.31	_	0.35	
V <sub>OL</sub>	Voltage	I <sub>OL</sub> = 2.3mA	0.01/	_	0.31	_	0.33	V
		I <sub>OL</sub> = 3.1mA	2.3V	_	0.44	_	0.45	
		$I_{OL} = 2.7 \text{mA}$	0) /	_	0.31	_	0.33	
		I <sub>OL</sub> = 4mA	3V	_	0.44	_	0.45	
lı	Input Current	A or B Input V <sub>I</sub> = GND to 3.6V	0V to 3.6V	_	± 0.1	_	± 0.5	μΑ
I <sub>OFF</sub>	Power Down Leakage Current	$V_I$ or $V_O = 0V$ to 3.6V	0V	_	± 0.2	_	± 0.6	μΑ
$\Delta I_{OFF}$	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 <sub>CC</sub>	Additional Supply Current	One input at V <sub>CC</sub> -0.6V Other input at V <sub>CC</sub> or GND	3.3V	_	40	_	50	μΑ



# Electrical Characteristics (cont.) (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Symbol	Parameter	Test Conditions	V <sub>CC</sub>	T <sub>A</sub> = -40°C t	o +125 °C	Unit
Syllibol	Farameter	rest conditions	VCC	Min	Max	Offic
		_	0.8V to 1.65V	0.80 X V <sub>CC</sub>	_	
V <sub>IH</sub>	High-Level Input Voltage	_	1.65V to 1.95V	0.70 X V <sub>CC</sub>	_	V
VIH	Trigit-Level input voltage		2.3V to 2.7V	1.6	_	V
		_	3.0V to 3.6V	2.0	_	
		_	0.8V to 1.65V	_	0.25 X V <sub>CC</sub>	
VIL	Low-Level Input Voltage	_	1.65V to 1.95V	_	0.30 X V <sub>CC</sub>	V
V IL	Low Level Input Voltage		2.3V to 2.7V	/ — 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 <sub>OH</sub> = -1.1mA	1.1V	0.6 X V <sub>CC</sub>	_	
		I <sub>OH</sub> = -1.7mA	1.4V	0.93	_	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	High Lovel Output Voltage	I <sub>OH</sub> = -1.9mA	1.65V	1.17	_	V
V <sub>OH</sub>	High-Level Output Voltage	I <sub>OH</sub> = -2.3mA	2.21/	1.77	_	
		I <sub>OH</sub> = -3.1mA	2.3V	1.67	_	
		I <sub>OH</sub> = -2.7mA	21/	2.40	_	
		I <sub>OH</sub> = -4mA	- 3V	2.30	_	
		I <sub>OL</sub> = 20μA	0.8V to 3.6V	_	0.11	
		I <sub>OL</sub> = 1.1mA	1.1V	_	0.33 X V <sub>CC</sub>	
		I <sub>OL</sub> = 1.7mA	1.4V	_	0.41	
.,	Lave Lavel Codavi Vallage	I <sub>OL</sub> = 1.9mA	1.65V	_	0.39	
V <sub>OL</sub>	Low-Level Output Voltage	I <sub>OL</sub> = 2.3mA	0.01/	_	0.36	V
		I <sub>OL</sub> = 3.1mA	2.3V	_	0.50	
		I <sub>OL</sub> = 2.7mA	0)/	_	0.36	
		I <sub>OL</sub> = 4mA	- 3V	_	0.50	
l <sub>l</sub>	Input Current	A or B Input, $V_I = GND$ to 3.6V	0V to 3.6V	_	± 0.75	μA
l <sub>OFF</sub>	Power Down Leakage Current	$V_1$ or $V_0 = 0V$ to 3.6V	0V	_	± 1.0	μA
$\Delta I_{OFF}$	Delta Power Down Leakage Current	$V_1$ or $V_0 = 0V$ to 3.6V	0V to 0.2V	_	± 2.5	μA
Icc	Supply Current	$V_I = GND \text{ or } V_{CC}, I_O = 0$	0.8V to 3.6V	_	1.4	μA
ΔI <sub>CC</sub>	Additional Supply Current	Input at V <sub>CC</sub> -0.6V Other input at V <sub>CC</sub> or GND	3.3V	_	75	μА

# Operating and Package Characteristics (@T<sub>A</sub> = +25°C, unless otherwise specified.)

	Parameter Test Conditions		V <sub>CC</sub>	Тур	Unit
			0.8V	5.1	
	C <sub>pd</sub> Power dissipation capacitance		1.2V ± 0.1V	5.2	
		f = 1MHz	1.5V ± 0.1V	5.2	
$C_{pd}$	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 Input	TO OUTPUT	V	T <sub>A</sub> = +25°C			T <sub>A</sub> = -40°C to +85°C		T <sub>A</sub> = -40°C to +125°C		Unit
Farameter			V <sub>CC</sub>	Min	Тур	Max	Min	Max	Min	Max	Onit
			V8.0	_	19.2	_	_	_	_	_	
			1.2V ± 0.1V	2.6	5.5	11.3	2.3	12.5	2.3	13.9	ns
	۸	Y	1.5V ± 0.1V	1.8	3.6	6.4	1.6	7.4	1.6	8.2	
t <sub>pd</sub>	Α		1.8V ± 0.15V	1.5	2.9	5.0	1.4	5.9	1.4	6.5	
			2.5V ± 0.2V	1.2	2.4	3.9	1.1	4.5	1.1	5.0	
			3.3V ± 0.3V	0.9	1.9	3.2	0.8	3.9	0.8	4.3	

C<sub>L</sub> = 10pF see Figure 1

Parameter	Jarameter I	то	V		T <sub>A</sub> = +25°C			$T_A = -40^{\circ}C \text{ to } +85^{\circ}C$		$T_A = -40^{\circ}C \text{ to } +125^{\circ}C$	
Farameter		OUTPUT	V <sub>CC</sub>	Min	Тур	Max	Min	Max	Min	Max	Unit
			V8.0	_	23.8	_	_	_	_	_	
			1.2V ± 0.1V	3.1	6.5	13.4	2.9	15.1	2.9	16.6	ns
	۸	V	1.5V ± 0.1V	2.3	4.2	7.5	2.1	8.7	2.1	9.6	
t <sub>pd</sub>	Α	Y	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<sub>L</sub> = 15pF see Figure 1

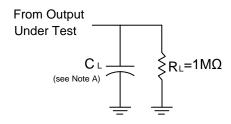
Parameter	From	TO OUTPUT	V		T <sub>A</sub> = +25°C	;	T <sub>A</sub> = -40°C	C to +85°C	T <sub>A</sub> = -40°C	to +125°C	Unit
Input	Input		Vcc	Min	Тур	Max	Min	Max	Min	Max	
		V8.0	_	28.0	_	_	_	_	_		
			1.2V ± 0.1V	3.5	7.4	14.3	3.3	17.4	3.3	19.1	ns
	_	Y	1.5V ± 0.1V	2.6	4.7	8.6	2.4	10.0	2.4	11.0	
t <sub>pd</sub> 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	
			$3.3V \pm 0.3V$	1.6	2.8	4.2	1.4	5.0	1.4	5.5	

C<sub>L</sub> = 30pF see Figure 1

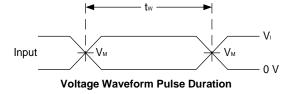
Parameter	From	то	V		T <sub>A</sub> = +25°C	;	$T_A = -40^{\circ}$	C to +85°C	$T_A = -40$ °C	to +125°C	Unit
Parameter	Input	OUTPUT	Vcc	Min	Тур	Max	Min	Max	Min	Max	
			V8.0	_	40.3	_	_	_	_	_	
			1.2V ± 0.1V	4.8	9.8	17.6	4.4	20.9	4.4	23.0	
	۸		1.5V ± 0.1V	3.6	6.3	10.8	3.2	12.9	3.2	14.2	
t <sub>pd</sub> A	Ť	1.8V ± 0.15V	3.2	5.3	9.0	2.9	10.5	2.9	11.6	ns	
			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	

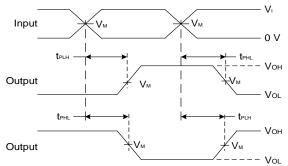


### **Parameter Measurement Information**



V	Inputs		V	•
V <sub>CC</sub>	VI	t <sub>r</sub> /t <sub>f</sub>	V <sub>M</sub>	C∟
0.8V	Vcc	≤3 ns	V <sub>CC</sub> /2	5, 10, 15, 30pF
1.2V ± 0.1V	V <sub>CC</sub>	≤3 ns	V <sub>CC</sub> /2	5, 10, 15, 30pF
1.5V ± 0.1V	V <sub>CC</sub>	≤3 ns	V <sub>CC</sub> /2	5, 10, 15, 30pF
1.8V ± 0.15V	Vcc	≤3 ns	V <sub>CC</sub> /2	5, 10, 15, 30pF
2.5V ± 0.2V	Vcc	≤3 ns	V <sub>CC</sub> /2	5, 10, 15, 30pF
3.3V ± 0.3V	V <sub>CC</sub>	≤3 ns	V <sub>CC</sub> /2	5, 10, 15, 30pF





**Voltage Waveform Propagation Delay Times Inverting and Non Inverting Outputs** 

Figure 1 Load Circuit and Voltage Waveforms

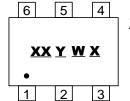
Notes:

- 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



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 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   $\frac{\underline{XX}}{\underline{Y}}: I \, dentification \, \, Co \, de \\ \underline{\underline{Y}}: \, Year: 0{\sim}9$ 

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

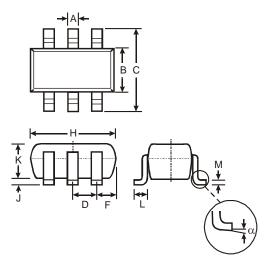
52 and 53 week X: A~Z: Internal code

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

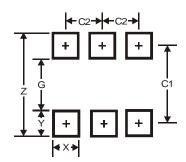


# SOT363 Package Outline Dimensions and Suggested Pad Layout

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



	SOT363				
Dim	Min	Max	Тур		
Α	0.10	0.30	0.25		
В	1.15	1.35	1.30		
C	2.00	2.20	2.10		
D		0.65 Ty	p		
F	0.40	0.45	0.425		
Н	1.80	2.20	2.15		
7	0	0.10	0.05		
K	0.90	1.00	1.00		
L	0.25	0.40	0.30		
M	0.10	0.22	0.11		
α	0°	8°	-		
All Dimensions in mm					

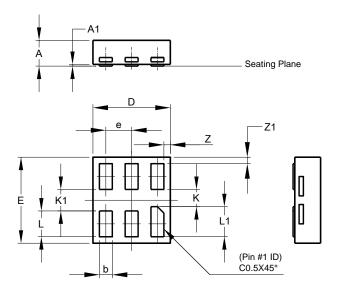


Dimensions	Value (in mm)	
Z	2.5	
G	1.3	
Х	0.42	
Υ	0.6	
C1	1.9	
C2	0.65	

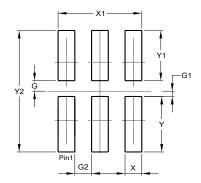


# X2-DFN0910-6 Package Outline Dimensions and Suggested Pad Layout

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



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	
Е	0.95	1.05	1.00	
е	-	-	0.30	
K	0.20	-	-	
<b>K</b> 1	0.25	-	-	
L	0.25	0.35	0.30	
L1	0.30	0.40	0.35	
Z	-	-	0.075	
<b>Z</b> 1	-	-	0.075	
All Dimensions in mm				

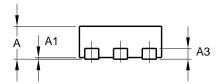


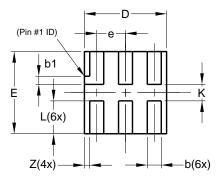
Dimensions	Value (in mm)
G	0.100
G1	0.050
G2	0.150
X	0.150
X1	0.750
Υ	0.525
Y1	0.475
Y2	1.150



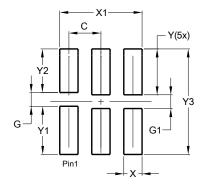
# X2-DFN1010-6 Package Outline Dimensions and Suggested Pad Layout

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





	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		
е	_	_	0.35		
L	0.35	0.45	0.40		
K	0.15		_		
Z			0.065		
All Dimensions in mm					

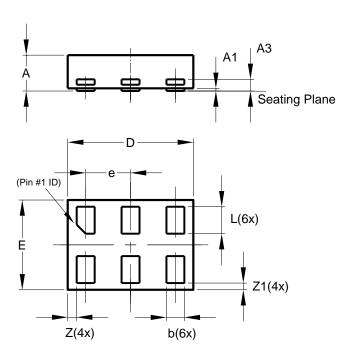


Dimensions	Value (in mm)
С	0.350
G	0.150
G1	0.150
Х	0.200
X1	0.900
Υ	0.500
Y1	0.525
Y2	0.475
Y3	1.150

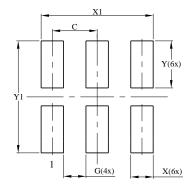


# X2-DFN1410-6 Package Outline Dimensions and Suggested Pad Layout

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



	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		
<b>Z</b> 1	0.045	0.105	0.075		
All Dimensions in mm					



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



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