



ST5091

PRELIMINARY

960/900/864/816-Channel TFT LCD Gate Driver

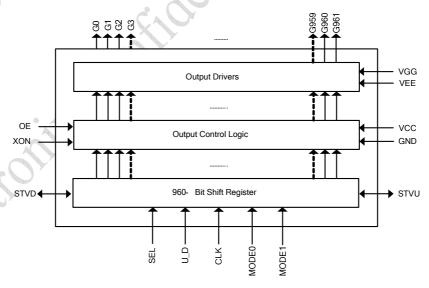
Product Description

ST5091 is a 960/900/864/816-channel gate driver used for driving the gate electrode of TFT LCD panel. It is designed for 2-level output with maximum +40V output driving voltage. The special pin location is designed for the COG type.

Features

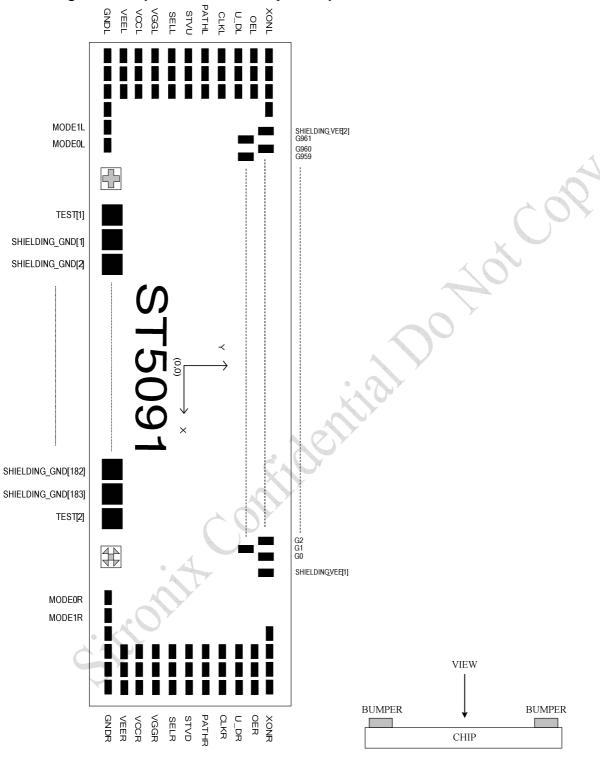
- 2-level output gate driver for TFT LCD panel
- 960/900/864/816 channels output and 2 channel outputs which are fixed to VEE
- Various scan function can support various dual gate driving sequence
- Maximum 200KHZ operation frequency
- Digital supply voltage:2.7V~3.6V
- Maximum +40V output driving voltage
- Bi-directional data shift capability
- 200KHz maximum operation frequency
- High voltage CMOS process technology
- Chip on glass (COG) package

Block Diagram





Pin Assignments (view from bump side)





Pin Description

Decimation.	1/0	Description					
Designation	1/0	•					
CLIVD CLIV	١,	Vertical shift clock This is the shift clock for the shift registers. The data in shift registers A and B are shifted					
CLKR,CLKL	ı	This is the shift clock for the shift registers. The data in shift registers A and B are shifted synchronously with each rising edge of CLK.					
		Display-Off input pin The pin is used to control the channel output. When OE input is H, driver output is					
OER,OEL	- 1	Fixed to VEE regardless CLK . However, the internal shift register is not cleared even if OE					
		Input are inactive					
		Display-On input pin					
		XON=Low All output pins output VGG voltage irrespective of the shift data and the content of					
XONR,XONL	l i	input data. However, this does not cause the contents of the shift registers to be					
7.OTTI,7.OTTE		cleared. XON operates asynchronously with CLK, and has priority over OE.					
		XON=High All Output pins Output normal voltage levels.					
		Transfer direction select pin					
11 DD 11 DI		This pin specifies the direction in which data is transferred through the shift registers. When					
U_DR,U_DL	ı	U_D=H: Data is shifted in the direction STVD→G1→G2→→G959→G960→STVU.					
		U_D=L: Data is shifted in the direction STVD←G1←G2←←G959←G960←STVU.					
		Vertical shift data input / Output pins					
		These pins are used to input and output shift data. The function of these pins is switched for					
		input or output by U_D pin as shown below.					
STVD,STVU	I/O	U_D =H: STVD is input; STVU as Output to next stage					
,		U_D =L: STVU is input; STVD as Output to next stage.					
		When set for input, the data is latched into the internal shift registers synchronously with the rising edge of CLK. When set for Output and more then one gate driver are cascaded, these					
		pins Output the data to be fed into the next stage.					
		Selecting the output mode: 960/900/864/816 channels					
		Selecting the output mode. 300/300/00-4/010 chamicis					
		VA O					
		Output channel Disable channel MODE1 MODE0					
MODE0		Output channel (fixed to VEE) MODE1 MODE0					
MODE1	- 1	960 H H					
		900 453~512 H L					
		864 433~528 L H					
		816 409~552 L L					
		This pin controls the driver output sequence					
		SEL=H,U_D=H:G1,G2,G3,G4,G5,G6,G7,G8					
0515 0511		SEL=H,U_D=L:G960,G959,G958,G957,G956,G955,G954,G953					
SELR,SELL	ı	SEL=L,U_D=H:G1,G2,G4,G3,G5,G6,G8,G7					
		SEL=L,U_D=L:G959,G960,G958,G957,G955,G956,G954,G953					
		SEL is pulled high to vcc internally.					
G1~G960	0./	LCD gate driver outputs					
G0	0	LCD panel auxiliary pins, these pins always output VEE level					
G961							
VGGR,VGGL	Р	Power supply for LCD driver output high (ON)					
VCCR,VCCL	P	Logic power supply					
GNDR,GNDL	-	Logic ground					
SHIELDING_G ND[1]~							
SHIELDING_G	SD	This pin is connected to GND internally.Not connected.					
ND[183]							
SHIELDING_V							
EE[1]~	SD	This pin is connected to VEE internally.Not connected.					
SHIELDING_		•					
VEE[[2] TEST[1,2]	Т	This pin is connected to GND internally.Not connected					
VEER,VEEL	P	Power supply for LCD driver output low (OFF)					
		provide adopting for EOD driver output low (OFF)					

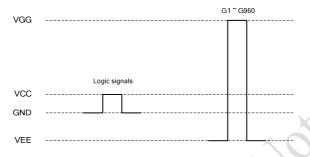


PATHR, PATHL	S	Linked together internal
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Note1: l:Input;O:Output;I/O:Input/Output;P:Power;S:Shorted line;SD:Shielding pad;T:Test pad. Note2:Test[1,2]=[1,X] Enter into test mode

Function Description

IO signal voltage levels



Shift register

The shift register is controlled by the direction signal U_D and the shift clock CLK. On the rising edge of CLK, the data is shifted left or right, depending on U_D.

```
U_D = "H", STVD is input, STVU is Output
       For 816-channel mode
       \mathsf{STVD} \to \mathsf{G1} \to \mathsf{G2} \to \cdots \to \mathsf{G408} \to \mathsf{G553} \to
                                                                                      G959→G960→ STVU
       For 864-channel mode
       STVD \rightarrow G1 \rightarrow G2 \rightarrow \cdot \cdot \cdot \cdot \rightarrow G432 \rightarrow G529
       For 900-channel mode
       STVD \rightarrow G1 \rightarrow G2 \rightarrow \cdot \cdot \cdot \cdot \rightarrow G452 \rightarrow G513 \rightarrow \cdot \cdot \cdot
                                                                                     → G959→G960→ STVU
       For 960-channel mode
       STVD \rightarrow G1 \rightarrow G2 \rightarrow \cdot
                                                                                    → G959→G960→ STVU
U_D = "L", STVU is input, STVD is Output
       For 816-channel mode
                                             ← G408← G553←・・・・ ← G959←G960←STVU
       STVD \leftarrow G1 \leftarrow G2 \leftarrow \cdot
       For 864-channel mode
       ← G432← G529←・・・・・ ← G959←G960←STVU
       For 900channel mode
       STVD ← G1← G2← /
                                           \cdot \leftarrow G452 \leftarrow G513 \leftarrow \cdot \cdot \cdot \cdot \leftarrow G959 \leftarrow G960 \leftarrow STVU
       For 960-channel mode
                                                                   · · · · · ← G959←G960←STVU
       STVD ← G1← G2←
```

XON function

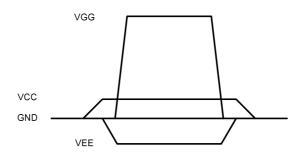
When XON = "L", all outputs from G1 to G960 are switched ON (set to VGG). The action of XON is not CLKL synchronous. The outputs switching delays are distributed, so the peak supply current is reduced. The shift register is not affected by XON.

Power up/down sequence

To prevent the device from damage due to latch up, the power ON/OFF sequence shown below must be followed.

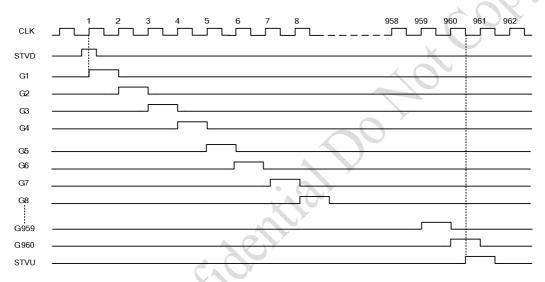
Power on: VCC → VEE → VGG Power off: VGG → VEE → VCC



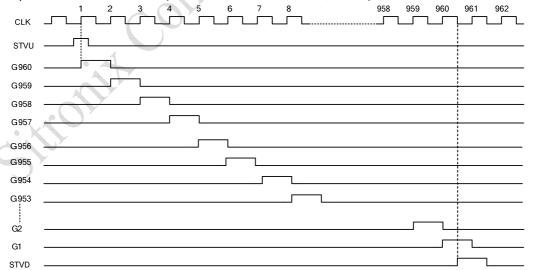


Waveforms

1.Forward shift operation with 960 channels (MODE1=H,MODE0=H,SEL=H,U_D=L)

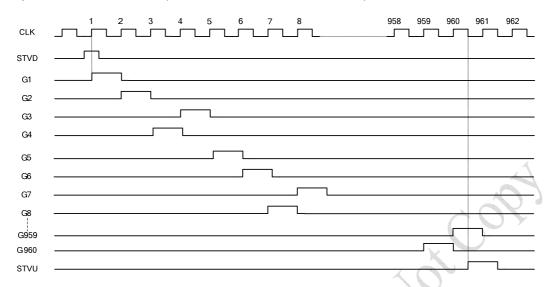


2.Backward shift operation with 960 channels (MODE1=H,MODE0=H,SEL=H,U_D=H)

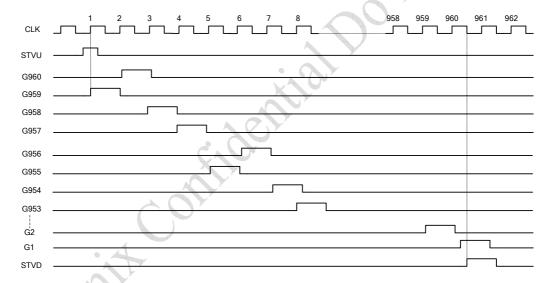




3.Forward shift operation with 960 channels (MODE1=H,MODE0=H,SEL=L,U_D=L)

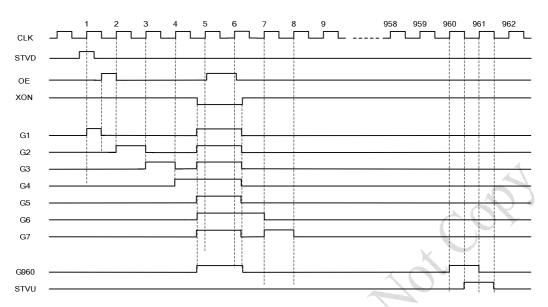


4.Backward shift operation with 960 channels (MODE1=H,MODE0=H,SEL=L,U_D=H)

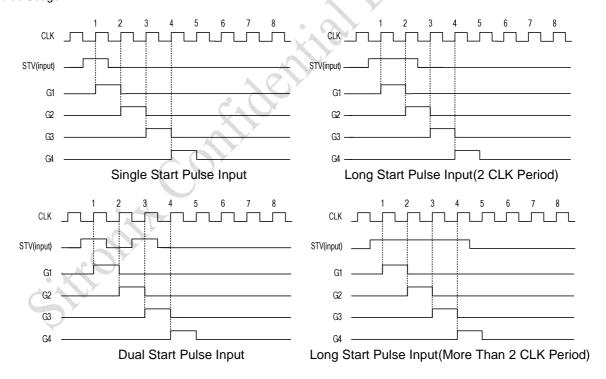




5.General explanation of XON and OE



6.Start Pulse Usage





Output sequence control

ST5091 channel output sequence can be controlled by pins of SEL, U_D

U D=H

Case	SEL	Scan function	Output sequence
1	Н	Z1	1->2->3->4->5->6->7->8->
2	L	弓	1->2->4->3->5->6->8->7->

U D=L

Case	SEG1	Scan function	Output sequence
3	Н	Z1	8->7->6->5->4->3->2->1
4	L	弓	7->8->6->5->3->4->2->1

DC Characteristics

Absolute Maximum Rating (GND = 0V)

T			1607		
Parameter Symbol		Ratings			Unit
Power supply voltage (1)	VGG	-0.3	to	+42.0	V
Power supply voltage (2)	VCC	-0.3	to	+7.0	V
Power supply voltage (3)	VEE	VGG-42.0	to	+0.3	V
Power supply voltage (4)	VGG-VEE	-0.3		+40.0	V
Input voltage	Vin	-0.3	to	VCC+0.3	V
Storage temperature	T_{STG}	-55	to	+125	°C

Note: Device is subject to be damaged permanently if stresses beyound those absolute maximum ratings listed above.

Recommended Operation Conditions (GND = 0V)

Parameter	Symbol	Ratings		Unit	
		Min.	Тур.	Max.	
Power supply voltage (1)	VGG	7		VEE+40	V
Power supply voltage (2)	VCC	2.7	3.3	3.6	V
Power supply voltage (3)	VEE	-20		-5	V
Power supply voltage (4)	VGG-VEE	12		40	V
Operation frequency	f_{CLK}			200	KHz
Operation temperature	T_{A}	-20		+85	°C



Electrical Characteristics (VCC = 3.3V, GND = 0V)

 $(VGG=25V, VEE=-15, VCC=3.3V, GND=0V, TA=-20^{\circ}C \sim +85^{\circ}C)$

Parameter	Symbol	Condition		Ratings		Unit	Application Pin
i arameter	Gyllibol	Condition	Min.	Тур.	Max.	Joint	Application i ili
Input "H" voltage	VIH		0.7 x VCC		VCC		All input
Input "L" voltage	VIL		GND		0.3 x VCC	v	An input
Ouput "H" voltage	VOH	$IOH = 40\mu A$	VCC – 0.5		VCC	·	STVD.U
Output "L" voltage	VOL	$IOL = 40\mu A$	GND		GND + 0.4		31 VD,0
Output "H" resistance	ROH	$V_G = VGG - 0.5V$			1000	Ω	G1~
Output "L" resistance	ROL	$V_G = VEE + 0.5V$			1000	122	G960
Input leakage current	I_{IN}	(Note2)	-1.0		+1.0	μA	All input
Pull high resistance	R_{PU}	$V_{IN} = GND$	70		200	kΩ	XON,
Power consumption (1)	I_{VGG}				250		
Power consumption (1)	$I_{ m VEE}$	(Note 1)			250	μA	
Power consumption (2)	IDD				150		

Note: (1) Power consumption with the following condition:

Output no load, $f_{CPV} = 50 \text{kHz}$, OE = VIL, XON = VIH, VGG = 20V, VEE = -8V, VCC = 3.0V, VIH = VCC, VIL = GND

(2) All input except XON

AC Characteristics

 $(VGG=25V, VEE=-15, VCC=3.3V, GND=0V, TA=-20^{\circ}C \sim +85^{\circ}C)$

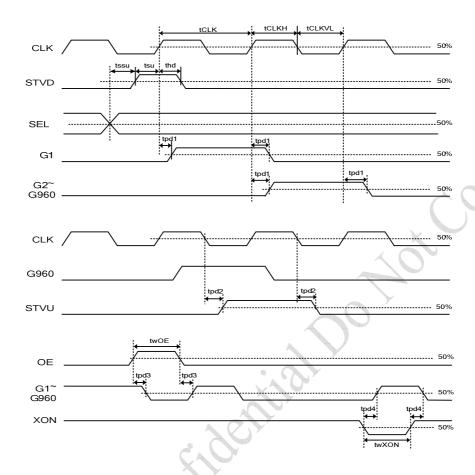
Parameter	Symbol	Condition	S	pec.	Unit
raiailletei	Syllibol	Condition	Min.	Max.	Ollit
Operation frequency	tCLKV		5		
CPV pulse width	tCLKH, tCLKL	50% duty cycle	2.5		
OE pulse width	twOE		1		μs
XON pulse width	twXON		10	Y Y	
Data setup time	tsu		0.2		
Data hold time	thd		0.3	9	
SEL setup time	tssu		0.2		
Output delay time (1)	tpd1	CL = 330pF	4	1.2	μs
Output delay time (2)	tpd2	CL = 33pF		1.2	
Output delay time (3)	tpd3	CL = 330pF		0.9	
Output delay time (4)	tpd4	CL = 330pF		50	

Note: The measurement point for all of above signals is at 50% of input/output amplitude.

Sittoniti

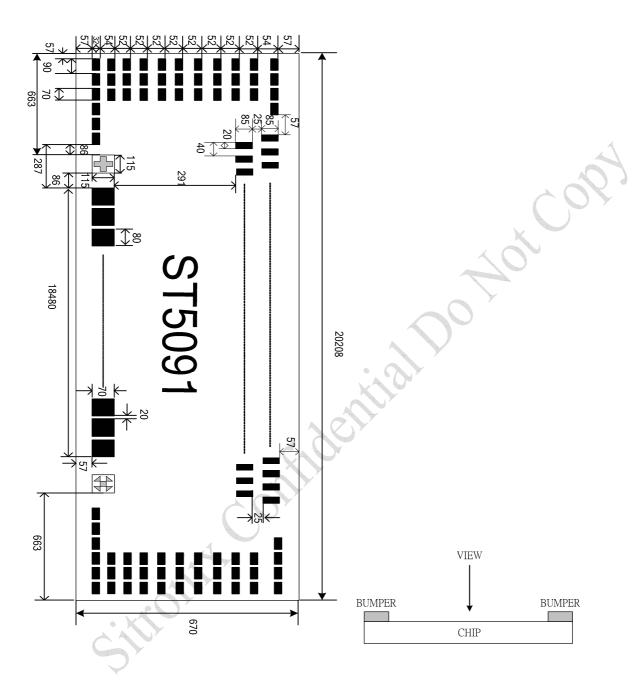


Waveform





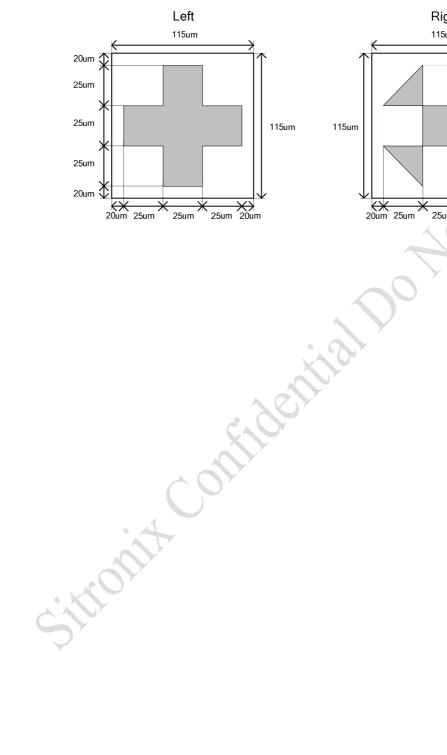
Chip line Dimensions (unit: um) and view from bump side

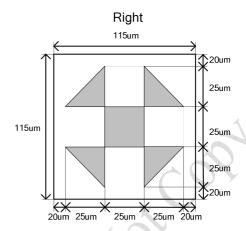


Chip size :20208um X 670um(scribe line included)



Alignment Mark







Bonding Diagram

Pad No.	Name	х	Y
1	GNDL	-10012	-262
2	GNDL	-9922	-262
3	GNDL	-9832	-262
4	GNDL	-9742	-262
5	MODE1L	-9652	-262
6	MODE0L	-9562	-262
7	SHIELDING_GND[1]	-9200	-243
8	SHIELDING_GND[2]	-9100	-243
9	SHIELDING_GND[3]	-9000	-243
10	SHIELDING_GND[4]	-8900	-243
11	SHIELDING_GND[5]	-8800	-243
12	SHIELDING_GND[6]	-8700	-243
13	SHIELDING_GND[7]	-8600	-243
14	SHIELDING_GND[8]	-8500	-243
15	SHIELDING_GND[9]	-8400	-243
16	SHIELDING_GND[10]	-8300	-243
17	SHIELDING_GND[11]	-8200	-243
18	SHIELDING_GND[12]	-8100	-243
19	SHIELDING_GND[13]	-8000	-243
20	SHIELDING_GND[14]	-7900	-243
21	SHIELDING_GND[15]	-7800	-243
22	SHIELDING_GND[16]	-7700	-243
23	SHIELDING_GND[17]	-7600	-243
24	SHIELDING_GND[18]	-7500	-243
25	SHIELDING_GND[19]	-7400	-243
26	SHIELDING GND[20]	-7300	-243
27	SHIELDING GND[21]	-7200	-243
28	SHIELDING GND[22]	-7100	-243
29	SHIELDING GND[23]	-7000	-243
30	SHIELDING_GND[24]	-6900	-243
31	SHIELDING_GND[25]	-6800	-243
32	SHIELDING_GND[26]	-6700	-243
33	SHIELDING_GND[27]	-6600	-243
34	SHIELDING_GND[28]	-6500	-243
35	SHIELDING_GND[29]	-6400	-243
36	SHIELDING GND[30]	-6300	-243
37	SHIELDING_GND[31]	-6200	-243
38	SHIELDING GND[32]	-6100	-243
39	SHIELDING GND[33]	-6000	-243
40	SHIELDING GND[34]	-5900	-243
41	SHIELDING GND[35]	-5800	-243
42	SHIELDING GND[36]	-5700	-243
43	SHIELDING GND[37]	-5600	-243
44	SHIELDING GND[38]	-5500	-243
45	SHIELDING GND[39]	-5400	-243
46	SHIELDING GND[40]	-5300	-243
47	SHIELDING GND[41]	-5200	-243
48	SHIELDING GND[42]	-5100	-243
49	SHIELDING_GND[43]	-5000	-243

Pad	Name	х	Υ
No.	OLUEL DING ONDIA		040
50	SHIELDING_GND[44]	-4900	-243
51	SHIELDING_GND[45]	-4800	-243
52	SHIELDING_GND[46]	-4700	-243
53	SHIELDING_GND[47]	-4600	-243
54	SHIELDING_GND[48]	-4500	-243
55	SHIELDING_GND[49]	-4400	-243
56	SHIELDING_GND[50]	-4300	-243
57	SHIELDING_GND[51]	-4200	-243
58	SHIELDING_GND[52]	-4100	-243
59	SHIELDING_GND[53]	-4000	-243
60	SHIELDING_GND[54]	-3900	-243
61	SHIELDING_GND[55]	-3800	-243
62	SHIELDING_GND[56]	-3700	-243
63	SHIELDING_GND[57]	-3600	-243
64	SHIELDING_GND[58]	-3500	-243
65	SHIELDING_GND[59]	-3400	-243
66	SHIELDING_GND[60]	-3300	-243
67	SHIELDING_GND[61]	-3200	-243
68	SHIELDING_GND[62]	-3100	-243
69	SHIELDING_GND[63]	-3000	-243
70	SHIELDING_GND[64]	-2900	-243
71	SHIELDING_GND[65]	-2800	-243
72	SHIELDING_GND[66]	-2700	-243
73	SHIELDING GND[67]	-2600	-243
74	SHIELDING_GND[68]	-2500	-243
75	SHIELDING GND[69]	-2400	-243
76	SHIELDING GND[70]	-2300	-243
77	SHIELDING GND[71]	-2200	-243
78	SHIELDING GND[72]	-2100	-243
79	SHIELDING GND[73]	-2000	-243
80	SHIELDING GND[74]	-1900	-243
81	SHIELDING GND[75]	-1800	-243
82	SHIELDING GND[76]	-1700	-243
83	SHIELDING GND[77]	-1600	-243
84	SHIELDING GND[78]	-1500	-243
85	SHIELDING GND[79]	-1400	-243
86	SHIELDING GND[80]	-1300	-243
87	SHIELDING GND[81]	-1200	-243
88	SHIELDING GND[82]	-1100	-243
89	SHIELDING GND[83]	-1000	-243
90	SHIELDING GND[84]	-900	-243
91	SHIELDING GND[85]	-800	-243
92	SHIELDING GND[86]	-700	-243
93	SHIELDING GND[87]	-600	-243
94	SHIELDING GND[88]	-500	-243
95	SHIELDING GND[89]	-400 300	-243
96	SHIELDING GND[90]	-300	-243
97	SHIELDING GND[91]	-200	-243
98	SHIELDING GND[92]	-100	-243



100 SHIELDING GND[94] 100 -2 101 SHIELDING GND[95] 200 -2 102 SHIELDING GND[96] 300 -2 103 SHIELDING GND[97] 400 -2 104 SHIELDING GND[98] 500 -2 105 SHIELDING GND[99] 600 -2 106 SHIELDING GND[100] 700 -2 107 SHIELDING GND[101] 800 -2 108 SHIELDING GND[102] 900 -2 109 SHIELDING GND[103] 1000 -2 110 SHIELDING GND[104] 1100 -2	43 43 43 43 43 43 43 43 43 43
101 SHIELDING GND[95] 200 -2 102 SHIELDING GND[96] 300 -2 103 SHIELDING GND[97] 400 -2 104 SHIELDING GND[98] 500 -2 105 SHIELDING GND[99] 600 -2 106 SHIELDING GND[100] 700 -2 107 SHIELDING GND[101] 800 -2 108 SHIELDING GND[102] 900 -2 109 SHIELDING GND[103] 1000 -2 110 SHIELDING GND[104] 1100 -2	43 43 43 43 43 43 43
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104 SHIELDING GND[98] 500 -2 105 SHIELDING GND[99] 600 -2 106 SHIELDING GND[100] 700 -2 107 SHIELDING GND[101] 800 -2 108 SHIELDING GND[102] 900 -2 109 SHIELDING GND[103] 1000 -2 110 SHIELDING GND[104] 1100 -2	243 243 243 243
105 SHIELDING GND[99] 600 -2 106 SHIELDING GND[100] 700 -2 107 SHIELDING GND[101] 800 -2 108 SHIELDING GND[102] 900 -2 109 SHIELDING GND[103] 1000 -2 110 SHIELDING GND[104] 1100 -2	143 143 143
106 SHIELDING GND[100] 700 -2 107 SHIELDING GND[101] 800 -2 108 SHIELDING GND[102] 900 -2 109 SHIELDING GND[103] 1000 -2 110 SHIELDING GND[104] 1100 -2	!43 !43
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No. No. 150 SHIELDING GND[144] 5100 -243 151 SHIELDING GND[145] 5200 -243 152 SHIELDING GND[146] 5300 -243 153 SHIELDING GND[147] 5400 -243 154 SHIELDING GND[148] 5500 -243 155 SHIELDING GND[149] 5600 -243 156 SHIELDING GND[150] 5700 -243 157 SHIELDING GND[151] 5800 -243 158 SHIELDING GND[152] 5900 -243 159 SHIELDING GND[153] 6000 -243 160 SHIELDING GND[154] 6100 -243 161 SHIELDING GND[155] 6200 -243	
151 SHIELDING GND[145] 5200 -243 152 SHIELDING GND[146] 5300 -243 153 SHIELDING GND[147] 5400 -243 154 SHIELDING GND[148] 5500 -243 155 SHIELDING GND[149] 5600 -243 156 SHIELDING GND[150] 5700 -243 157 SHIELDING GND[151] 5800 -243 158 SHIELDING GND[152] 5900 -243 159 SHIELDING GND[153] 6000 -243 160 SHIELDING GND[154] 6100 -243	
152 SHIELDING GND[146] 5300 -243 153 SHIELDING GND[147] 5400 -243 154 SHIELDING GND[148] 5500 -243 155 SHIELDING GND[149] 5600 -243 156 SHIELDING GND[150] 5700 -243 157 SHIELDING GND[151] 5800 -243 158 SHIELDING GND[152] 5900 -243 159 SHIELDING GND[153] 6000 -243 160 SHIELDING GND[154] 6100 -243	
153 SHIELDING GND[147] 5400 -243 154 SHIELDING GND[148] 5500 -243 155 SHIELDING GND[149] 5600 -243 156 SHIELDING GND[150] 5700 -243 157 SHIELDING GND[151] 5800 -243 158 SHIELDING GND[152] 5900 -243 159 SHIELDING GND[153] 6000 -243 160 SHIELDING GND[154] 6100 -243	
154 SHIELDING GND[148] 5500 -243 155 SHIELDING GND[149] 5600 -243 156 SHIELDING GND[150] 5700 -243 157 SHIELDING GND[151] 5800 -243 158 SHIELDING GND[152] 5900 -243 159 SHIELDING GND[153] 6000 -243 160 SHIELDING GND[154] 6100 -243	
155 SHIELDING GND[149] 5600 -243 156 SHIELDING GND[150] 5700 -243 157 SHIELDING GND[151] 5800 -243 158 SHIELDING GND[152] 5900 -243 159 SHIELDING GND[153] 6000 -243 160 SHIELDING GND[154] 6100 -243	
156 SHIELDING GND[150] 5700 -243 157 SHIELDING GND[151] 5800 -243 158 SHIELDING GND[152] 5900 -243 159 SHIELDING GND[153] 6000 -243 160 SHIELDING GND[154] 6100 -243	
157 SHIELDING GND[151] 5800 -243 158 SHIELDING GND[152] 5900 -243 159 SHIELDING GND[153] 6000 -243 160 SHIELDING GND[154] 6100 -243	_
158 SHIELDING GND[152] 5900 -243 159 SHIELDING GND[153] 6000 -243 160 SHIELDING GND[154] 6100 -243	_
159 SHIELDING GND[153] 6000 -243 160 SHIELDING GND[154] 6100 -243	_
160 SHIELDING GND[154] 6100 -243	
	_
	_
	_
162 SHIELDING GND[156] 6300 -243	_
163 SHIELDING_GND[157] 6400 -243	
164 SHIELDING_GND[158] 6500 -243	
165 SHIELDING_GND[159] 6600 -243	
166 SHIELDING_GND[160] 6700 -243	
167 SHIELDING GND[161] 6800 -243	
168 SHIELDING GND[162] 6900 -243	
169 SHIELDING GND[163] 7000 -243	
170 SHIELDING_GND[164] 7100 -243	
171 SHIELDING_GND[165] 7200 -243	
172 SHIELDING_GND[166] 7300 -243	
173 SHIELDING_GND[167] 7400 -243	
174 SHIELDING_GND[168] 7500 -243	
175 SHIELDING_GND[169] 7600 -243	
176 SHIELDING_GND[170] 7700 -243	
177 SHIELDING_GND[171] 7800 -243	
178 SHIELDING_GND[172] 7900 -243	
179 SHIELDING_GND[173] 8000 -243	
180 SHIELDING_GND[174] 8100 -243	
181 SHIELDING_GND[175] 8200 -243	
182 SHIELDING_GND[176] 8300 -243	
183 SHIELDING_GND[177] 8400 -243	
184 SHIELDING_GND[178] 8500 -243	
185 SHIELDING_GND[179] 8600 -243	
186 SHIELDING GND[180] 8700 -243	
187 SHIELDING GND[181] 8800 -243	
188 SHIELDING GND[182] 8900 -243	
189 SHIELDING GND[183] 9000 -243	
190 SHIELDING GND[184] 9100 -243	
191 SHIELDING GND[185] 9200 -243	
192 MODE0R 9562 -262	
193 MODE1R 9652 -262	
194 GNDR 9742 -262	
195 GNDR 9832 -262	
196 GNDR 9922 -262	
197 GNDR 10012 -262	
198 VEER 9832 -208	
199 VEER 9922 -208	
200 VEER 10012 -208	



Pad	Name	х	Y
No.	VOOD	0000	450
201	VCCR	9832	-156
202	VCCR	9922	-156
203	VCCR	10012	-156
204	VGGR	9832	-104
205	VGGR	9922	-104
206	VGGR	10012	-104
207	SELR	9832	-52
208	SELR	9922	-52
209	SELR	10012	-52
210	STVD	9832	0
211	STVD	9922	0
212	STVD	10012	0
213	PATHR	9832	52
214	PATHR	9922	52
215	PATHR	10012	52
216	CLKR	9832	104
217	CLKR	9922	104
218	CLKR	10012	104
219	U DR	9832	156
220	U DR	9922	156
221	U DR	10012	156
222	OER	9832	208
223	OER	9922	208
224	OER	10012	208
225	XONR	9742	262
226	XONR	9832	262
227	XONR	9922	262
228	XONR	10012	262
229	SHIELDING VEE[1]	9640	235.5
230	G0	9600	235.5
231	G1	9580	125.5
232	G2	9560	235.5
233	G3	9540	125.5
234	G4	9520	235.5
235	G5	9500	125.5
236	G6	9480	235.5
237	G7		
238	G8	9460	125.5
		9440	235.5
239	G9	9420	125.5
240	G10	9400	235.5
241	G11	9380	125.5
242	G12	9360	235.5
243	G13	9340	125.5
244	G14	9320	235.5
245	G15	9300	125.5
246	G16	9280	235.5
247	G17	9260	125.5
248	G18	9240	235.5
249	G19	9220	125.5
250	G20	9200	235.5
251	G21	9180	125.5

Pad	Name	х	Υ
No.		0.100	005.5
252	G22	9160	235.5
253	G23	9140	125.5
254	G24	9120	235.5
255	G25	9100	125.5
256	G26	9080	235.5
257	G27	9060	125.5
258	G28	9040	235.5
259	G29	9020	125.5
260	G30	9000	235.5
261	G31	8980	125.5
262	G32	8960	235.5
263	G33	8940	125.5
264	G34	8920	235.5
265	G35	8900	125.5
266	G36	8880	235.5
267	G37	8860	125.5
268	G38	8840	235.5
269	G39	8820	125.5
270	G40	8800	235.5
271	G41	8780	125.5
272	G42	8760	235.5
273	G43	8740	125.5
274	G44	8720	235.5
275	G45	8700	125.5
276	G46	8680	235.5
277	G47	8660	125.5
278	G48	8640	235.5
279	G49	8620	125.5
280	G50	8600	235.5
281	G51	8580	125.5
282	G52	8560	235.5
283	G53	8540	125.5
284	G54	8520	235.5
285	G55	8500	125.5
286	G56	8480	235.5
287	G57	8460	125.5
288	G58	8440	235.5
289	G59	8420	125.5
290	G60	8400	235.5
291	G61	8380	125.5
292	G62	8360	235.5
293	G63	8340	125.5
294	G64	8320	235.5
295	G65	8300	125.5
296	G66	8280	235.5
297	G67	8260	125.5
298	G68	8240	235.5
299	G69	8220	125.5
300	G70	8200	235.5
301	G71	8180	125.5
302	G72	8160	235.5

Sitronix

Pad	Name	х	Y
No.			
303	G73	8140	125.5
304	G74	8120	235.5
305	G75	8100	125.5
306	G76	8080	235.5
307	G77	8060	125.5
308	G78	8040	235.5
309	G79	8020	125.5
310	G80	8000	235.5
311	G81	7980	125.5
312	G82	7960	235.5
313	G83	7940	125.5
314	G84	7920	235.5
315	G85	7900	125.5
316	G86	7880	235.5
317	G87	7860	125.5
318	G88	7840	235.5
319	G89	7820	125.5
320	G90	7800	235.5
321	G91	7780	125.5
322	G92	7760	235.5
323	G93	7740	125.5
324	G94	7720	235.5
325	G95	7700	125.5
	G96	7680	235.5
326			
327	G97	7660 7640	125.5
328 329	G98 G99	7620	235.5 125.5
330	G100	7600	235.5
331	G100	7580	
		7560	125.5
332	G102		235.5
333	G103	7540	125.5
334	G104	7520	235.5
335 336	G105	7500	125.5
	G106	7480	235.5
337	G107	7460	125.5
338	G108	7440	235.5
339	G109	7420	125.5
340	G110	7400	235.5
341	G111	7380	125.5
342	G112	7360	235.5
343	G113	7340	125.5
344	G114	7320	235.5
345	G115	7300	125.5
346	G116	7280	235.5
347	G117	7260	125.5
348	G118	7240	235.5
349	G119	7220	125.5
350	G120	7200	235.5
351	G121	7180	125.5
352	G122	7160	235.5
353	G123	7140	125.5

Pad No.	Name	х	Υ
354	G124	7120	235.5
355	G125	7100	125.5
356	G126	7080	235.5
357	G127	7060	125.5
358	G128	7040	235.5
359	G129	7020	125.5
360	G130	7000	235.5
361	G131	6980	125.5
362	G132	6960	235.5
363	G133	6940	125.5
364	G134	6920	235.5
365	G135	6900	125.5
366	G136	6880	235.5
367	G137	6860	125.5
368	G138	6840	235.5
369	G139	6820	125.5
370	G140	6800	235.5
371	G141	6780	125.5
372	G142	6760	235.5
373	G143	6740	125.5
374	G144	6720	235.5
375	G145	6700	125.5
376	G146	6680	235.5
377	G147	6660	125.5
378	G148	6640	235.5
379	G149	6620	125.5
380	G150	6600	235.5
381	G151	6580	125.5
382	G152	6560	235.5
383	G153	6540	125.5
384	G154	6520	235.5
385	G155	6500	125.5
386	G156	6480	235.5
387	G157	6460	125.5
388	G158	6440	235.5
389	G159	6420	125.5
390	G160	6400	235.5
391	G161	6380	125.5
392	G162	6360	235.5
393	G163	6340	125.5
394	G164	6320	235.5
395	G165	6300	125.5
396	G166	6280	235.5
397	G167	6260	125.5
398	G168	6240	235.5
399	G169	6220	125.5
400	G170	6200	235.5
401	G171	6180	125.5
402	G172	6160	235.5
403	G173	6140	125.5
404	G174	6120	235.5



Pad No.	Name	х	Y
405	G175	6100	125.5
406	G176	6080	235.5
407	G177	6060	125.5
408	G178	6040	235.5
409	G179	6020	125.5
410	G180	6000	235.5
411	G181	5980	125.5
412	G182	5960	235.5
413	G183	5940	125.5
414	G184	5920	235.5
415	G185	5900	125.5
416	G186	5880	235.5
417	G187	5860	125.5
418	G188	5840	235.5
419	G189	5820	125.5
420	G190	5800	235.5
421	G191	5780	125.5
422	G192	5760	235.5
423	G193	5740	125.5
424	G194	5720	235.5
425	G195	5700	125.5
426	G196	5680	235.5
427	G197	5660	125.5
428	G198	5640	235.5
429	G199	5620	125.5
430	G200	5600	235.5
431	G201	5580	125.5
432	G202	5560	235.5
433	G203	5540	125.5
434	G204	5520	235.5
435	G205	5500	125.5
436	G206	5480	235.5
437	G207	5460	125.5
438	G208	5440	235.5
439	G209	5420	125.5
440	G210	5400	235.5
441	G211	5380	125.5
442	G212	5360	235.5
443	G213	5340	125.5
444	G214	5320	235.5
445	G214 G215	5300	125.5
446	G216	5280	235.5
447	G217	5260	125.5
448	G218	5240	235.5
449	G219	5220	125.5
450	G220	5200	235.5
451	G221	5180	125.5
452	G222	5160	235.5
453	G223	5140	125.5
454	G224	5120	235.5
455	G225	5100	125.5
400	G220	3100	120.0

Pad No.	Name	х	Υ
456	G226	5080	235.5
457	G227	5060	125.5
458	G228	5040	235.5
459	G229	5020	125.5
460	G230	5000	235.5
461	G231	4980	125.5
462	G232	4960	235.5
463	G233	4940	125.5
464	G234	4920	235.5
465	G235	4900	125.5
466	G236	4880	235.5
467	G237	4860	125.5
468	G238	4840	235.5
469	G239	4820	125.5
470	G240	4800	235.5
471	G241	4780	125.5
472	G242	4760	235.5
473	G243	4740	125.5
474	G244	4720	235.5
475	G245	4700	125.5
476	G246	4680	235.5
477	G247	4660	125.5
478	G248	4640	235.5
479	G249	4620	125.5
480	G250	4600	235.5
481	G251	4580	125.5
482	G252	4560	235.5
483	G253	4540	125.5
484	G254	4520	235.5
485	G255	4500	125.5
486	G256	4480	235.5
487	G257	4460	125.5
488	G258	4440	235.5
489	G259	4420	125.5
490	G260	4400	235.5
491	G261	4380	125.5
492	G262	4360	235.5
493	G263	4340	125.5
494	G264	4320	235.5
495	G265	4300	125.5
496	G266	4280	235.5
497	G267	4260	125.5
498	G268	4240	235.5
499	G269	4220	125.5
500	G270	4200	235.5
501	G271	4180	125.5
502	G272	4160	235.5
503	G273	4140	125.5
504	G274	4120	235.5
505	G275	4100	125.5
506	G276	4080	235.5
			200.0



Pad	Name	х	Y
No.	Namo	^_	
507	G277	4060	125.5
508	G278	4040	235.5
509	G279	4020	125.5
510	G280	4000	235.5
511	G281	3980	125.5
512	G282	3960	235.5
513	G283	3940	125.5
514	G284	3920	235.5
515	G285	3900	125.5
516	G286	3880	235.5
517	G287	3860	125.5
518	G288	3840	235.5
519	G289	3820	125.5
520	G290	3800	235.5
521	G291	3780	125.5
522	G292	3760	235.5
523	G293	3740	125.5
524	G294	3720	235.5
525	G295	3700	125.5
526	G296	3680	235.5
527	G297	3660	-
			125.5
528	G298	3640	235.5
529	G299	3620	125.5
530	G300	3600	235.5
531	G301	3580	125.5
532	G302	3560	235.5
533	G303	3540	125.5
534	G304	3520	235.5
535	G305	3500	125.5
536	G306	3480	235.5
537	G307	3460	125.5
538	G308	3440	235.5
539	G309	3420	125.5
540	G310	3400	235.5
541	G311	3380	125.5
542	G312	3360	235.5
543	G313	3340	125.5
544	G314	3320	235.5
545	G315	3300	125.5
546	G316	3280	235.5
547	G317	3260	125.5
548	G318	3240	235.5
549	G319	3220	125.5
550	G320	3200	235.5
551	G321	3180	125.5
552	G322	3160	235.5
553	G323	3140	125.5
554	G324	3120	235.5
555	G325	3100	125.5
556	G326	3080	235.5
557	G327	3060	125.5

Pad No.	Name	х	Υ
558	G328	3040	235.5
559	G329	3020	125.5
560	G330	3000	235.5
561	G331	2980	125.5
562	G332	2960	235.5
563	G333	2940	125.5
			235.5
564	G334	2920	
565	G335	2900	125.5
566	G336	2880	235.5
567	G337	2860	125.5
568	G338	2840	235.5
569	G339	2820	125.5
570	G340	2800	235.5
571	G341	2780	125.5
572	G342	2760	235.5
573	G343	2740	125.5
574	G344	2720	235.5
575	G345	2700	125.5
576	G346	2680	235.5
577	G347	2660	125.5
578	G348	2640	235.5
579	G349	2620	125.5
580	G350	2600	235.5
581	G351	2580	125.5
582	G352	2560	235.5
583	G353	2540	125.5
584	G354	2520	235.5
585	G355	2500	125.5
586	G356	2480	235.5
587	G357	2460	125.5
588	G358	2440	235.5
589	G359	2420	125.5
590	G360	2400	235.5
591	G361	2380	125.5
592	G362	2360	235.5
593	G363	2340	125.5
594	G364	2320	235.5
595	G365	2300	
			125.5
596	G366	2280	235.5
597	G367	2260	125.5
598	G368	2240	235.5
599	G369	2220	125.5
600	G370	2200	235.5
601	G371	2180	125.5
602	G372	2160	235.5
603	G373	2140	125.5
604	G374	2120	235.5
605	G375	2100	125.5
606	G376	2080	235.5
607	G377	2060	125.5
608	G378	2040	235.5



Pad	Name	х	Y
No.	Manie		
609	G379	2020	125.5
610	G380	2000	235.5
611	G381	1980	125.5
612	G382	1960	235.5
613	G383	1940	125.5
614	G384	1920	235.5
615	G385	1900	125.5
616	G386	1880	235.5
617	G387	1860	125.5
618	G388	1840	235.5
619	G389	1820	125.5
620	G390	1800	235.5
621	G391	1780	125.5
622	G392	1760	235.5
623	G393	1740	125.5
624	G394	1720	235.5
625	G395	1700	125.5
626	G396	1680	235.5
627	G397	1660	125.5
628	G398	1640	235.5
629	G399	1620	125.5
630	G400	1600	235.5
631	G401	1580	125.5
632	G402	1560	235.5
633	G403	1540	125.5
634	G404	1520	235.5
635	G405	1500	125.5
636	G406	1480	235.5
637	G407	1460	125.5
638	G408	1440	235.5
639	G409	1420	125.5
640	G410	1400	235.5
641	G411	1380	125.5
642	G412	1360	235.5
643	G413	1340	125.5
644	G414	1320	235.5
645	G415	1300	125.5
646	G416	1280	235.5
647	G417	1260	125.5
648	G418	1240	235.5
649	G419	1220	125.5
650	G419 G420	1200	235.5
651	G420 G421	1180	125.5
652	G421	1160	235.5
653	G423	1140	125.5
654	G423	1120	235.5
655	G425	1100	125.5
656	G425 G426	1080	235.5
657	G426 G427	1060	125.5
658	G427 G428	1040	235.5
659	G428 G429	1020	125.5
039	U428	1020	120.0

Pad No.	Name	х	Y
660	G430	1000	235.5
661	G431	980	125.5
662	G432	960	235.5
663	G433	940	125.5
664	G434	920	235.5
665	G435	900	125.5
666	G436	880	235.5
667	G437	860	125.5
668	G438	840	235.5
669	G439	820	125.5
670	G440	800	235.5
671	G441	780	125.5
672	G442	760	235.5
673	G443	740	125.5
674	G444	720	235.5
675	G445	700	125.5
676	G446	680	235.5
677	G447	660	125.5
678	G448	640	235.5
679	G449	620	125.5
680	G450	600	235.5
681	G451	580	125.5
682	G452	560	235.5
683	G453	540	125.5
684	G454	520	235.5
685	G455	500	125.5
686	G456	480	235.5
687	G457	460	125.5
688	G458	440	235.5
689	G459	420	125.5
690	G460	400	235.5
691	G461	380	125.5
692	G462	360	235.5
693	G462	340	125.5
694	G464	320	235.5
695	G465	300	125.5
696	G466	280	235.5
697		260	125.5
698	G467	240	235.5
	G468		
699	G469	220	125.5
700	G470	200	235.5
701	G471	180	125.5
702	G472	160	235.5
703	G473	140	125.5
704	G474	120	235.5
705	G475	100	125.5
706	G476	80	235.5
707	G477	60	125.5
708	G478	40	235.5
709	G479	20	125.5
710	G480	0	235.5



Pad	Name	х	Υ
No.	0.404	20	405.5
711	G481	-20	125.5
712	G482	-40	235.5
713	G483	-60	125.5
714	G484	-80	235.5
715	G485	-100	125.5
716	G486	-120	235.5
717	G487	-140	125.5
718	G488	-160	235.5
719	G489	-180	125.5
720	G490	-200	235.5
721	G491	-220	125.5
722	G492	-240	235.5
723	G493	-260	125.5
724	G494	-280	235.5
725	G495	-300	125.5
726	G496	-320	235.5
727	G497	-340	125.5
728	G498	-360	235.5
729	G499	-380	125.5
730	G500	-400	235.5
731	G501	-420	125.5
732	G502	-440	235.5
733	G503	-460	125.5
734	G504	-480	235.5
735	G505	-500	125.5
736	G506	-520	235.5
737	G507	-540	125.5
738	G508	-560	235.5
739	G509	-580	125.5
740	G510	-600	235.5
741	G511	-620	125.5
742	G512	-640	235.5
743	G513	-660	125.5
744	G514	-680	235.5
745	G515	-700	125.5
746	G516	-720	235.5
747	G510	-740	125.5
748	G518	-760	235.5
749	G519	-780	125.5
750 751	G520	-800 -820	235.5
	G521	-840	125.5
752 753	G522		235.5
754	G523	-860	125.5
	G524	-880	235.5
755	G525	-900	125.5
756	G526	-920	235.5
757	G527	-940	125.5
758	G528	-960	235.5
759	G529	-980	125.5
760	G530	-1000	235.5
761	G531	-1020	125.5

Pad No.	Name	х	Υ
762	G532	-1040	235.5
763	G533	-1060	125.5
764	G534	-1080	235.5
765	G535	-1100	125.5
766	G536	-1120	235.5
767	G537	-1140	125.5
768	G538	-1160	235.5
769	G539	-1180	125.5
770	G540	-1200	235.5
771	G541	-1220	125.5
772	G542	-1240	235.5
773	G543	-1260	125.5
774	G544	-1280	235.5
775	G545	-1300	125.5
776	G546	-1320	235.5
777	G547	-1340	125.5
778	G548	-1360	235.5
779	G549	-1380	125.5
780	G550	-1400	235.5
781	G551	-1420	125.5
782	G552	-1440	235.5
783	G553	-1460	125.5
784	G554	-1480	235.5
785	G555	-1500	125.5
786	G556	-1520	235.5
787	G557	-1540	125.5
788	G558	-1560	235.5
789	G559	-1580	125.5
790	G560	-1600	235.5
791	G561	-1620	125.5
792	G562	-1640	235.5
793	G563	-1660	125.5
794	G564	-1680	235.5
795	G565	-1700	125.5
796	G566	-1720	235.5
797	G567	-1740	125.5
798	G568	-1760	235.5
799	G569	-1780	125.5
800	G570	-1800	235.5
801	G571	-1820	125.5
802	G572	-1840	235.5
803	G573	-1860	125.5
804	G574	-1880	235.5
805	G575	-1900	125.5
806	G576	-1920	235.5
807	G577	-1940	125.5
808	G578	-1960	235.5
809	G579	-1980	125.5
810	G580	-2000	235.5
811	G581	-2020	125.5
812	G582	-2040	235.5



Pad	Name	х	Υ
No.	Namo		
813	G583	-2060	125.5
814	G584	-2080	235.5
815	G585	-2100	125.5
816	G586	-2120	235.5
817	G587	-2140	125.5
818	G588	-2160	235.5
819	G589	-2180	125.5
820	G590	-2200	235.5
821	G591	-2220	125.5
822	G592	-2240	235.5
823	G593	-2260	125.5
824	G594	-2280	235.5
825	G595	-2300	125.5
826	G596	-2320	235.5
827	G597	-2340	125.5
828	G598	-2360	235.5
829	G599	-2380	125.5
830	G600	-2400	235.5
831	G601	-2420	125.5
832	G602	-2440	235.5
833	G603	-2460	125.5
834	G604	-2480	235.5
835	G605	-2500	125.5
836	G606	-2520	235.5
837	G607	-2540	125.5
838	G608	-2560	235.5
839	G609	-2580	125.5
840	G610	-2600	235.5
841	G611	-2620	125.5
842	G612	-2640	235.5
843	G613	-2660	125.5
844	G614	-2680	235.5
845	G615	-2700	
846		-2700	125.5
847	G616		235.5
	G617	-2740	125.5
848	G618	-2760	235.5
849	G619	-2780	125.5
850	G620	-2800	235.5
851	G621	-2820	125.5
852	G622	-2840	235.5
853	G623	-2860	125.5
854	G624	-2880	235.5
855	G625	-2900	125.5
856	G626	-2920	235.5
857	G627	-2940	125.5
858	G628	-2960	235.5
859	G629	-2980	125.5
860	G630	-3000	235.5
861	G631	-3020	125.5
862	G632	-3040	235.5
863	G633	-3060	125.5

864 G634 -3080 235.5 865 G635 -3100 125.5 867 G637 -3140 125.5 868 G638 -3160 235.5 869 G639 -3180 125.5 870 G640 -3200 235.5 871 G641 -3220 125.5 872 G642 -3240 235.5 873 G643 -3260 125.5 874 G644 -3280 235.5 875 G645 -3300 125.5 876 G646 -3320 235.5 877 G647 -3340 125.5 878 G648 -3300 125.5 879 G649 -3380 125.5 881 G650 -3400 235.5 887 G650 -3400 235.5 881 G651 -3420 125.5 882 G652 -3440 235.5	Pad No.	Name	х	Y
866 G636 -3120 235.5 867 G637 -3140 125.5 868 G638 -3160 235.5 869 G639 -3180 125.5 870 G640 -3200 235.5 871 G641 -3220 125.5 872 G642 -3240 235.5 873 G643 -3260 125.5 874 G644 -3280 235.5 875 G645 -3300 125.5 876 G646 -3320 235.5 877 G647 -3340 125.5 878 G648 -3360 235.5 879 G649 -3380 125.5 881 G650 -3400 235.5 881 G651 -3420 125.5 882 G652 -3440 235.5 883 G653 -3460 125.5 884 G654 -3480 235.5	864	G634	-3080	235.5
867 G637 -3140 125.5 868 G638 -3160 235.5 869 G639 -3180 125.5 870 G640 -3200 235.5 871 G641 -3220 125.5 872 G642 -3240 235.5 873 G643 -3260 125.5 874 G644 -3280 235.5 875 G645 -3300 125.5 876 G646 -3320 235.5 877 G647 -3340 125.5 878 G648 -3360 235.5 879 G649 -3380 125.5 881 G651 -3420 235.5 881 G651 -3420 235.5 882 G652 -3440 235.5 884 G654 -3480 235.5 885 G655 -3500 125.5 886 G656 -3520 235.5	865	G635	-3100	125.5
868 G638 -3160 235.5 869 G639 -3180 125.5 870 G640 -3200 235.5 871 G641 -3220 125.5 872 G642 -3240 235.5 873 G643 -3260 125.5 874 G644 -3280 235.5 875 G645 -3300 125.5 876 G646 -3320 235.5 877 G647 -3340 125.5 878 G648 -3360 235.5 879 G649 -3380 125.5 880 G650 -3400 235.5 881 G651 -3420 125.5 882 G652 -3440 235.5 883 G653 -3460 125.5 884 G654 -3480 235.5 885 G655 -3500 125.5 886 G656 -3520 235.5	866	G636	-3120	235.5
869 G639 -3180 125.5 870 G640 -3200 235.5 871 G641 -3220 125.5 872 G642 -3240 235.5 873 G643 -3260 125.5 874 G644 -3280 235.5 875 G645 -3300 125.5 876 G646 -3320 235.5 877 G647 -3340 125.5 878 G648 -3360 235.5 879 G649 -3380 125.5 880 G650 -3400 235.5 881 G651 -3420 125.5 882 G652 -3440 235.5 883 G653 -3460 125.5 884 G654 -3480 235.5 885 G655 -3500 125.5 886 G656 -3520 235.5 887 G657 -3540 125.5	867	G637	-3140	125.5
870 G640 -3200 235.5 871 G641 -3220 125.5 872 G642 -3240 235.5 873 G643 -3260 125.5 874 G644 -3280 235.5 875 G645 -3300 125.5 876 G646 -3320 235.5 877 G647 -3340 125.5 878 G648 -3360 235.5 879 G649 -3380 125.5 880 G650 -3400 235.5 881 G651 -3420 125.5 882 G652 -3440 235.5 883 G653 -3460 125.5 884 G654 -3480 235.5 885 G655 -3500 125.5 886 G656 -3520 235.5 887 G657 -3540 125.5 888 G658 -3560 235.5	868	G638	-3160	235.5
871 G641 -3220 125.5 872 G642 -3240 235.5 873 G643 -3260 125.5 874 G644 -3280 235.5 875 G645 -3300 125.5 876 G646 -3320 235.5 877 G647 -3340 125.5 878 G648 -3360 235.5 879 G649 -3380 125.5 880 G650 -3400 235.5 881 G651 -3420 125.5 882 G652 -3440 235.5 883 G653 -3460 125.5 884 G654 -3480 235.5 885 G655 -3500 125.5 886 G656 -3520 235.5 887 G657 -3540 125.5 888 G658 -3560 235.5 889 G669 -3620 125.5	869	G639	-3180	125.5
872 G642 -3240 235.5 873 G643 -3260 125.5 874 G644 -3280 235.5 875 G645 -3300 125.5 876 G646 -3320 235.5 877 G647 -3340 125.5 878 G648 -3360 235.5 879 G649 -3380 125.5 880 G650 -3400 235.5 881 G651 -3420 125.5 882 G652 -3440 235.5 883 G653 -3460 125.5 884 G654 -3480 235.5 885 G655 -3500 125.5 886 G656 -3520 235.5 887 G657 -3540 125.5 888 G658 -3560 235.5 889 G669 -3600 235.5 890 G661 -3620 125.5	870	G640	-3200	235.5
873 G644 -3280 235.5 874 G644 -3280 235.5 875 G645 -3300 125.5 876 G646 -3320 235.5 877 G647 -3340 125.5 878 G648 -3360 235.5 879 G649 -3380 125.5 880 G650 -3400 235.5 881 G651 -3420 125.5 882 G652 -3440 235.5 883 G653 -3460 125.5 884 G654 -3480 235.5 885 G655 -3500 125.5 886 G656 -3520 235.5 887 G657 -3540 125.5 888 G658 -3560 235.5 889 G659 -3580 125.5 890 G660 -3600 235.5 891 G661 -3620 125.5	871	G641	-3220	125.5
874 G644 -3280 235.5 875 G645 -3300 125.5 876 G646 -3320 235.5 877 G647 -3340 125.5 878 G648 -3360 235.5 879 G649 -3380 125.5 880 G650 -3400 235.5 881 G651 -3420 125.5 882 G652 -3440 235.5 883 G653 -3460 125.5 884 G654 -3480 235.5 885 G655 -3500 125.5 886 G656 -3520 235.5 887 G657 -3540 125.5 888 G658 -3560 235.5 889 G659 -3580 125.5 890 G660 -3600 235.5 891 G661 -3620 125.5 892 G662 -3640 235.5	872	G642	-3240	235.5
875 G645 -3300 125.5 876 G646 -3320 235.5 877 G647 -3340 125.5 878 G648 -3360 235.5 879 G649 -3380 125.5 880 G650 -3400 235.5 881 G651 -3420 125.5 882 G652 -3440 235.5 883 G653 -3460 125.5 884 G654 -3480 235.5 885 G655 -3500 125.5 886 G656 -3520 235.5 887 G657 -3540 125.5 888 G658 -3560 235.5 889 G659 -3580 125.5 890 G660 -3600 235.5 891 G661 -3620 125.5 892 G662 -3640 235.5 893 G663 -3700 125.5	873	G643	-3260	125.5
876 G646 -3320 235.5 877 G647 -3340 125.5 878 G648 -3360 235.5 879 G649 -3380 125.5 880 G650 -3400 235.5 881 G651 -3420 125.5 882 G652 -3440 235.5 883 G653 -3460 125.5 884 G654 -3480 235.5 885 G655 -3500 125.5 886 G656 -3520 235.5 887 G657 -3540 125.5 888 G658 -3560 235.5 889 G659 -3580 125.5 890 G660 -3600 235.5 891 G661 -3620 125.5 892 G662 -3640 235.5 893 G663 -3600 125.5 894 G664 -3680 235.5	874	G644	-3280	235.5
876 G646 -3320 235.5 877 G647 -3340 125.5 878 G648 -3360 235.5 879 G649 -3380 125.5 880 G650 -3400 235.5 881 G651 -3420 125.5 882 G652 -3440 235.5 883 G653 -3460 125.5 884 G654 -3480 235.5 885 G655 -3500 125.5 886 G656 -3520 235.5 887 G657 -3540 125.5 888 G658 -3560 235.5 889 G659 -3580 125.5 890 G660 -3600 235.5 891 G661 -3620 125.5 892 G662 -3640 235.5 893 G663 -3600 125.5 894 G664 -3680 235.5	875	G645	-3300	125.5
877 G647 -3340 125.5 878 G648 -3360 235.5 879 G649 -3380 125.5 880 G650 -3400 235.5 881 G651 -3420 125.5 882 G652 -3440 235.5 883 G653 -3460 125.5 884 G654 -3480 235.5 885 G655 -3500 125.5 886 G656 -3520 235.5 887 G657 -3540 125.5 888 G658 -3560 235.5 889 G659 -3580 125.5 890 G660 -3600 235.5 891 G661 -3620 125.5 892 G662 -3640 235.5 893 G663 -3660 125.5 894 G664 -3680 235.5 895 G665 -3700 125.5	876	G646	-3320	
878 G648 -3360 235.5 879 G649 -3380 125.5 880 G650 -3400 235.5 881 G651 -3420 125.5 882 G652 -3440 235.5 883 G653 -3460 125.5 884 G654 -3480 235.5 885 G655 -3500 125.5 886 G656 -3520 235.5 887 G657 -3540 125.5 888 G658 -3560 235.5 889 G659 -3580 125.5 890 G660 -3600 235.5 891 G661 -3620 125.5 892 G662 -3640 235.5 893 G663 -3660 125.5 894 G664 -3680 235.5 895 G665 -3700 125.5 896 G666 -3720 235.5		G647		
879 G649 -3380 125.5 880 G650 -3400 235.5 881 G651 -3420 125.5 882 G652 -3440 235.5 883 G653 -3460 125.5 884 G654 -3480 235.5 885 G655 -3500 125.5 886 G656 -3520 235.5 887 G657 -3540 125.5 888 G658 -3560 235.5 889 G659 -3580 125.5 890 G660 -3600 235.5 891 G661 -3620 125.5 892 G662 -3640 235.5 893 G663 -3660 125.5 894 G664 -3680 235.5 895 G665 -3700 125.5 896 G666 -3720 235.5 897 G667 -3740 125.5				
880 G650 -3400 235.5 881 G651 -3420 125.5 882 G652 -3440 235.5 883 G653 -3460 125.5 884 G654 -3480 235.5 885 G655 -3500 125.5 886 G656 -3520 235.5 887 G657 -3540 125.5 888 G658 -3560 235.5 889 G659 -3580 125.5 890 G660 -3600 235.5 891 G661 -3620 125.5 892 G662 -3640 235.5 893 G663 -3660 125.5 894 G664 -3680 235.5 895 G665 -3700 125.5 896 G666 -3720 235.5 897 G667 -3740 125.5 898 G668 -3760 235.5		G649		
881 G651 -3420 125.5 882 G652 -3440 235.5 883 G653 -3460 125.5 884 G654 -3480 235.5 885 G655 -3500 125.5 886 G656 -3520 235.5 887 G657 -3540 125.5 888 G658 -3560 235.5 889 G659 -3580 125.5 890 G660 -3600 235.5 891 G661 -3620 125.5 892 G662 -3640 235.5 893 G663 -3660 125.5 894 G664 -3680 235.5 895 G665 -3700 125.5 896 G666 -3720 235.5 897 G667 -3740 125.5 898 G668 -3760 235.5 899 G669 -3780 125.5		G650	-3400	
882 G652 -3440 235.5 883 G653 -3460 125.5 884 G654 -3480 235.5 885 G655 -3500 125.5 886 G656 -3520 235.5 887 G657 -3540 125.5 888 G658 -3560 235.5 889 G659 -3580 125.5 890 G660 -3600 235.5 891 G661 -3620 125.5 892 G662 -3640 235.5 893 G663 -3660 125.5 894 G664 -3680 235.5 895 G665 -3700 125.5 896 G666 -3720 235.5 897 G667 -3740 125.5 898 G668 -3760 235.5 899 G669 -3780 125.5 901 G671 -3840 235.5				
883 G653 -3460 125.5 884 G654 -3480 235.5 885 G655 -3500 125.5 886 G656 -3520 235.5 887 G657 -3540 125.5 888 G658 -3560 235.5 889 G659 -3580 125.5 890 G660 -3600 235.5 891 G661 -3620 125.5 892 G662 -3640 235.5 893 G663 -3660 125.5 894 G664 -3680 235.5 895 G665 -3700 125.5 896 G666 -3720 235.5 897 G667 -3740 125.5 898 G668 -3760 235.5 899 G669 -3780 125.5 901 G671 -3820 125.5 902 G672 -3840 235.5	882		-3440	
884 G654 -3480 235.5 885 G655 -3500 125.5 886 G656 -3520 235.5 887 G657 -3540 125.5 888 G658 -3560 235.5 889 G659 -3580 125.5 890 G660 -3600 235.5 891 G661 -3620 125.5 892 G662 -3640 235.5 893 G663 -3660 125.5 894 G664 -3680 235.5 895 G665 -3700 125.5 896 G666 -3720 235.5 897 G667 -3740 125.5 898 G668 -3760 235.5 899 G669 -3780 125.5 900 G670 -3800 235.5 901 G671 -3820 125.5 902 G672 -3840 235.5			-3460	
885 G655 -3500 125.5 886 G656 -3520 235.5 887 G657 -3540 125.5 888 G658 -3560 235.5 889 G659 -3580 125.5 890 G660 -3600 235.5 891 G661 -3620 125.5 892 G662 -3640 235.5 893 G663 -3660 125.5 894 G664 -3680 235.5 895 G665 -3700 125.5 896 G666 -3720 235.5 897 G667 -3740 125.5 898 G668 -3760 235.5 899 G669 -3780 125.5 900 G670 -3800 235.5 901 G671 -3820 125.5 903 G673 -3840 235.5 904 G674 -3880 235.5				
886 G656 -3520 235.5 887 G657 -3540 125.5 888 G658 -3560 235.5 889 G659 -3580 125.5 890 G660 -3600 235.5 891 G661 -3620 125.5 892 G662 -3640 235.5 893 G663 -3660 125.5 894 G664 -3680 235.5 895 G665 -3700 125.5 896 G666 -3720 235.5 897 G667 -3740 125.5 898 G668 -3760 235.5 899 G669 -3780 125.5 900 G670 -3800 235.5 901 G671 -3820 125.5 903 G673 -3840 235.5 904 G674 -3880 235.5 905 G675 -3900 125.5				
887 G657 -3540 125.5 888 G658 -3560 235.5 889 G659 -3580 125.5 890 G660 -3600 235.5 891 G661 -3620 125.5 892 G662 -3640 235.5 893 G663 -3660 125.5 894 G664 -3680 235.5 895 G665 -3700 125.5 896 G666 -3720 235.5 897 G667 -3740 125.5 898 G668 -3760 235.5 899 G669 -3780 125.5 900 G670 -3800 235.5 901 G671 -3820 125.5 902 G672 -3840 235.5 903 G673 -3860 125.5 904 G674 -3880 235.5 905 G675 -3900 125.5				
888 G658 -3560 235.5 889 G659 -3580 125.5 890 G660 -3600 235.5 891 G661 -3620 125.5 892 G662 -3640 235.5 893 G663 -3660 125.5 894 G664 -3680 235.5 895 G665 -3700 125.5 896 G666 -3720 235.5 897 G667 -3740 125.5 898 G668 -3760 235.5 899 G669 -3780 125.5 900 G670 -3800 235.5 901 G671 -3820 125.5 902 G672 -3840 235.5 903 G673 -3860 125.5 904 G674 -3880 235.5 905 G675 -3900 125.5 906 G676 -3920 235.5				
889 G659 -3580 125.5 890 G660 -3600 235.5 891 G661 -3620 125.5 892 G662 -3640 235.5 893 G663 -3660 125.5 894 G664 -3680 235.5 895 G665 -3700 125.5 896 G666 -3720 235.5 897 G667 -3740 125.5 898 G668 -3760 235.5 899 G669 -3780 125.5 900 G670 -3800 235.5 901 G671 -3820 125.5 902 G672 -3840 235.5 903 G673 -3860 125.5 904 G674 -3880 235.5 905 G675 -3900 125.5 906 G676 -3920 235.5 907 G677 -3940 125.5				
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891 G661 -3620 125.5 892 G662 -3640 235.5 893 G663 -3660 125.5 894 G664 -3680 235.5 895 G665 -3700 125.5 896 G666 -3720 235.5 897 G667 -3740 125.5 898 G668 -3760 235.5 899 G669 -3780 125.5 900 G670 -3800 235.5 901 G671 -3820 125.5 902 G672 -3840 235.5 903 G673 -3860 125.5 904 G674 -3880 235.5 905 G675 -3900 125.5 906 G676 -3920 235.5 907 G677 -3940 125.5 908 G678 -3960 235.5 909 G679 -3980 125.5				
892 G662 -3640 235.5 893 G663 -3660 125.5 894 G664 -3680 235.5 895 G665 -3700 125.5 896 G666 -3720 235.5 897 G667 -3740 125.5 898 G668 -3760 235.5 899 G669 -3780 125.5 900 G670 -3800 235.5 901 G671 -3820 125.5 902 G672 -3840 235.5 903 G673 -3860 125.5 904 G674 -3880 235.5 905 G675 -3900 125.5 906 G676 -3920 235.5 907 G677 -3940 125.5 908 G678 -3960 235.5 909 G679 -3980 125.5 910 G681 -4020 125.5				
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894 G664 -3680 235.5 895 G665 -3700 125.5 896 G666 -3720 235.5 897 G667 -3740 125.5 898 G668 -3760 235.5 899 G669 -3780 125.5 900 G670 -3800 235.5 901 G671 -3820 125.5 902 G672 -3840 235.5 903 G673 -3860 125.5 904 G674 -3880 235.5 905 G675 -3900 125.5 906 G676 -3920 235.5 907 G677 -3940 125.5 908 G678 -3960 235.5 909 G679 -3980 125.5 910 G680 -4000 235.5 911 G681 -4020 125.5 912 G682 -4040 235.5				
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898 G668 -3760 235.5 899 G669 -3780 125.5 900 G670 -3800 235.5 901 G671 -3820 125.5 902 G672 -3840 235.5 903 G673 -3860 125.5 904 G674 -3880 235.5 905 G675 -3900 125.5 906 G676 -3920 235.5 907 G677 -3940 125.5 908 G678 -3960 235.5 909 G679 -3980 125.5 910 G680 -4000 235.5 911 G681 -4020 125.5 912 G682 -4040 235.5 913 G683 -4060 125.5				
899 G669 -3780 125.5 900 G670 -3800 235.5 901 G671 -3820 125.5 902 G672 -3840 235.5 903 G673 -3860 125.5 904 G674 -3880 235.5 905 G675 -3900 125.5 906 G676 -3920 235.5 907 G677 -3940 125.5 908 G678 -3960 235.5 909 G679 -3980 125.5 910 G680 -4000 235.5 911 G681 -4020 125.5 912 G682 -4040 235.5 913 G683 -4060 125.5				
900 G670 -3800 235.5 901 G671 -3820 125.5 902 G672 -3840 235.5 903 G673 -3860 125.5 904 G674 -3880 235.5 905 G675 -3900 125.5 906 G676 -3920 235.5 907 G677 -3940 125.5 908 G678 -3960 235.5 909 G679 -3980 125.5 910 G680 -4000 235.5 911 G681 -4020 125.5 912 G682 -4040 235.5 913 G683 -4060 125.5				
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905 G675 -3900 125.5 906 G676 -3920 235.5 907 G677 -3940 125.5 908 G678 -3960 235.5 909 G679 -3980 125.5 910 G680 -4000 235.5 911 G681 -4020 125.5 912 G682 -4040 235.5 913 G683 -4060 125.5				
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907 G677 -3940 125.5 908 G678 -3960 235.5 909 G679 -3980 125.5 910 G680 -4000 235.5 911 G681 -4020 125.5 912 G682 -4040 235.5 913 G683 -4060 125.5				
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910 G680 -4000 235.5 911 G681 -4020 125.5 912 G682 -4040 235.5 913 G683 -4060 125.5				
911 G681 -4020 125.5 912 G682 -4040 235.5 913 G683 -4060 125.5				
912 G682 -4040 235.5 913 G683 -4060 125.5				
913 G683 -4060 125.5				



Pad	Name	х	Y
No.			
915	G685	-4100	125.5
916	G686	-4120	235.5
917	G687	-4140	125.5
918	G688	-4160	235.5
919	G689	-4180	125.5
920	G690	-4200	235.5
921	G691	-4220	125.5
922	G692	-4240	235.5
923	G693	-4260	125.5
924	G694	-4280	235.5
925	G695	-4300	125.5
926	G696	-4320	235.5
927	G697	-4340	125.5
928	G698	-4360	235.5
929	G699	-4380	125.5
930	G700	-4400	235.5
931	G701	-4420	125.5
932	G702	-4440	235.5
933	G703	-4460	125.5
934	G704	-4480	235.5
935	G705	-4500	125.5
936	G706	-4520	235.5
937	G700	-4540	125.5
938	G707	-4560	235.5
939	G708	-4580	125.5
940	G710	-4600	235.5
941	G710	-4620	125.5
942	G711	-4640	235.5
943	G712	-4660	125.5
944	G713	-4680	-
945	G714	-4700	235.5 125.5
946	G716	-4700	
947			235.5
	G717	-4740	125.5
948	G718	-4760	235.5
949	G719	-4780	125.5
950	G720	-4800	235.5
951	G721	-4820	125.5
952	G722	-4840	235.5
953	G723	-4860	125.5
954	G724	-4880	235.5
955	G725	-4900	125.5
956	G726	-4920	235.5
957	G727	-4940	125.5
958	G728	-4960	235.5
959	G729	-4980	125.5
960	G730	-5000	235.5
961	G731	-5020	125.5
962	G732	-5040	235.5
963	G733	-5060	125.5
964	G734	-5080	235.5
965	G735	-5100	125.5

Pad	Name	х	Y
No.	0700	#100	
966	G736	-5120	235.5
967	G737	-5140	125.5
968	G738	-5160	235.5
969	G739	-5180	125.5
970	G740	-5200	235.5
971	G741	-5220	125.5
972	G742	-5240	235.5
973	G743	-5260	125.5
974	G744	-5280	235.5
975	G745	-5300	125.5
976	G746	-5320	235.5
977	G747	-5340	125.5
978	G748	-5360	235.5
979	G749	-5380	125.5
980	G750	-5400	235.5
981	G751	-5420	125.5
982	G752	-5440	235.5
983	G753	-5460	125.5
984	G754	-5480	235.5
985	G755	-5500	125.5
986	G756	-5520	235.5
987	G757	-5540	125.5
988	G758	-5560	235.5
989	G759	-5580	125.5
990	G760	-5600	235.5
991	G761	-5620	125.5
992	G762	-5640	235.5
993	G763	-5660	125.5
994	G764	-5680	235.5
995	G765	-5700	125.5
996	G766	-5720	235.5
997	G767	-5740	125.5
998	G768	-5760	235.5
999	G769	-5780	125.5
1000	G770	-5800	235.5
1001	G771	-5820	125.5
1002	G772	-5840	235.5
1003	G773	-5860	125.5
1004	G774	-5880	235.5
1005	G775	-5900	125.5
1006	G776	-5920	235.5
1007	G777	-5940	125.5
1008	G778	-5960	235.5
1009	G779	-5980	125.5
1010	G780	-6000	235.5
1011	G781	-6020	125.5
1012	G782	-6040	235.5
1013	G783	-6060	125.5
1014	G784	-6080	235.5
1015	G785	-6100	125.5
1016	G786	-6120	235.5



Pad	Name	х	Y
No.	Name	^	_ ' _
1017	G787	-6140	125.5
1018	G788	-6160	235.5
1019	G789	-6180	125.5
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1021	G791	-6220	125.5
1022	G792	-6240	235.5
1023	G793	-6260	125.5
1024	G794	-6280	235.5
1025	G795	-6300	125.5
1026	G796	-6320	235.5
1027	G797	-6340	125.5
1028	G798	-6360	235.5
1029	G799	-6380	125.5
1030	G800	-6400	235.5
1031	G801	-6420	125.5
1032	G802	-6440	235.5
1033	G803	-6460	125.5
1034	G804	-6480	235.5
1035	G805	-6500	125.5
1036	G806	-6520	235.5
1037	G807	-6540	125.5
1037	G808	-6560	235.5
1039			
	G809	-6580	125.5
1040 1041	G810	-6600	235.5
1041	G811 G812	-6620	125.5
1042		-6640	235.5
1043	G813	-6660	125.5
	G814	-6680	235.5
1045 1046	G815	-6700	125.5
	G816	-6720	235.5
1047	G817	-6740	125.5
1048	G818	-6760	235.5
1049	G819	-6780	125.5
1050	G820	-6800	235.5
1051	G821	-6820	125.5
1052	G822	-6840	235.5
1053	G823	-6860	125.5
1054	G824	-6880	235.5
1055	G825	-6900	125.5
1056	G826	-6920	235.5
1057	G827	-6940	125.5
1058	G828	-6960	235.5
1059	G829	-6980	125.5
1060	G830	-7000	235.5
1061	G831	-7020	125.5
1062	G832	-7040	235.5
1063	G833	-7060	125.5
1064	G834	-7080	235.5
1065	G835	-7100	125.5
1066	G836	-7120	235.5
1067	G837	-7140	125.5

Pad No.	Name	х	Y
1068	G838	-7160	235.5
1069	G839	-7180	125.5
1070	G840	-7200	235.5
1071	G841	-7220	125.5
1072	G842	-7240	235.5
1073	G843	-7260	125.5
1074	G844	-7280	235.5
1075	G845	-7300	125.5
1076	G846	-7320	235.5
1077	G847	-7340	125.5
1078	G848	-7360	235.5
1079	G849	-7380	125.5
1080	G850	-7400	235.5
1081	G851	-7420	125.5
1082	G852	-7440	235.5
1083	G853	-7460	125.5
1084	G854	-7480	235.5
1085	G855	-7500	125.5
1086	G856	-7520	235.5
1087	G857	-7540	125.5
1088	G858	-7560	235.5
1089	G859	-7580	125.5
1090	G860	-7600	235.5
1091	G861	-7620	125.5
1092	G862	-7640	235.5
1093	G863	-7660	125.5
1094	G864	-7680	235.5
1095	G865	-7700	125.5
1096	G866	-7720	235.5
1097	G867	-7740	125.5
1098	G868	-7760	235.5
1099	G869	-7780	125.5
1100	G870	-7800	235.5
1101	G871	-7820	125.5
1102	G872	-7840	235.5
1103	G873	-7860	125.5
1104	G874	-7880	235.5
1105	G875	-7900	125.5
1106	G876	-7920	235.5
1107	G877	-7940	125.5
1108	G878	-7960	235.5
1109	G879	-7980	125.5
1110	G880	-8000	235.5
1111	G881	-8020	125.5
1112	G882	-8040	235.5
1113	G883	-8060	125.5
1114	G884	-8080	235.5
1115	G885	-8100	125.5
1116	G886	-8120	235.5
1117	G887	-8140	125.5
1118	G888	-8160	235.5



Pad No.	Name	х	Y
1119	G889	-8180	125.5
1120	G890	-8200	235.5
1121	G891	-8220	125.5
1122	G892	-8240	235.5
1123	G893	-8260	125.5
1124	G894	-8280	235.5
1125	G895	-8300	125.5
1126	G896	-8320	235.5
1127	G897	-8340	125.5
1128	G898	-8360	235.5
1129	G899	-8380	125.5
1130	G900	-8400	235.5
1131	G901	-8420	125.5
1132	G902	-8440	235.5
1133	G903	-8460	125.5
1134	G904	-8480	235.5
1135	G905	-8500	125.5
1136	G906	-8520	235.5
1137	G907	-8540	125.5
1138	G908	-8560	235.5
1139	G909	-8580	125.5
1140	G910	-8600	235.5
1141	G911	-8620	125.5
1142	G912	-8640	235.5
1143	G913	-8660	125.5
1144	G914	-8680	235.5
1145	G915	-8700	125.5
1146	G916	-8720	235.5
1147	G917	-8740	125.5
1148	G918	-8760	235.5
1149	G919	-8780	125.5
1150	G920	-8800	235.5
1151	G921	-8820	125.5
1152	G922	-8840	235.5
1153	G923	-8860	125.5
1154	G924	-8880	235.5
1155	G925	-8900	125.5
1156	G926	-8920	235.5
1157	G927	-8940	125.5
1158	G928	-8960	235.5
1159	G929	-8980	125.5
1160	G930	-9000	235.5
1161	G931	-9020	125.5
1162	G932	-9040	235.5
1163	G933	-9060	125.5
1164	G934	-9080	235.5
1165	G935	-9100	125.5
1166	G936	-9120	235.5
1167	G937	-9140	125.5
1168	G938	-9160	235.5
1169	G939	-9180	125.5

Pad No.	Name	х	Y
1170	G940	-9200	235.5
1171	G941	-9220	125.5
1172	G942	-9240	235.5
1173	G943	-9260	125.5
1174	G944	-9280	235.5
1175	G945	-9300	125.5
1176	G946	-9320	235.5
1177	G947	-9340	125.5
1178	G948	-9360	235.5
1179	G949	-9380	125.5
1180	G950	-9400	235.5
1181	G951	-9420	125.5
1182	G952	-9440	235.5
1183	G953	-9460	125.5
1184	G954	-9480	235.5
1185	G955	-9500	125.5
1186	G956	-9520	235.5
1187	G957	-9540	125.5
1188	G958	-9560	235.5
1189	G959	-9580	125.5
1190	G960	-9600	235.5
1191	G961	-9620	125.5
1192	SHIELDING VEE[2]	-9640	235.5
1193	XONL	-9742	262
1194	XONL	-9832	262
1195	XONL	-9922	262
1196	XONL	-10012	262
1197	OEL	-9832	208
1198	OEL	-9922	208
1199	OEL	-10012	208
1200	U_DL	-9832	156
1201	U_DL	-9922	156
1202	U_DL	-10012	156
1203	CLKL	-9832	104
1204	CLKL	-9922	104
1205	CLKL	-10012	104
1206	PATHL	-9832	52
1207	PATHL	-9922	52
1208	PATHL	-10012	52
1209	STVU	-9832	0
1210	STVU	-9922	0
1211	STVU	-10012	0
1212	SELL	-9832	-52
1213	SELL	-9922	-52
1214	SELL	-10012	-52
1215	VGGL	-9832	-104
1216	VGGL	-9922	-104
1217	VGGL	-10012	-104
1218	VCCL	-9832	-156
1219	VCCL	-9922	-156
1220	VCCL	-10012	-156



Pad No.	Name	х	Y
1221	VEEL	-9832	-208
1222	VEEL	-9922	-208
1223	VEEL	-10012	-208

Pad No.	Name		Y
1224	AL_MARK_L	-9383.5	-220.5
1225	AL_MARK_R	9383.5	-220.5

Revision History

Version	Description of Changes	Page	Date
V0.1	First release		2010/06/21
			601
			X
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	X	100	
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