*Data Sheet*

**NOVATEK**
聯 詠 科 技

# NT52001

## 960/864/816/800 Outputs TFT-LCD Gate Driver

### *V0.0*

## Index

## Revision History

| NT52001 Specification Revision History | | |
|---|---|---|
| **Version** | **Content** | **Date** |
| 0.0 | Original | 2008/10/28 |

## Features

- Gate driver for TFT-LCD panels
- 960/864/816/800 channel outputs and 2 channel outputs which are fixed to VEE
- Bi-directional shift function
- Driving voltage range: 40V
- Logical supply voltage: 2.3 ~ 3.6V
- Cascade dot-expansion function
- CMOS silicon gate (P-type)
- COG solution
- Chip size=22660um*740um、Output bump pitch=22um

## General Descriptions

NT52001 is a dedicated gate driver IC for TFT-LCD panels. After a start pulse is triggered, channel outputs pins will sequentially output high-driving voltage pulses as the gate signals on TFT-LCD panels. NT52001 also provides shift up/down selection and cascade functions for dot expansion. The special pin location is designed for COG type.

## Pin Assignment
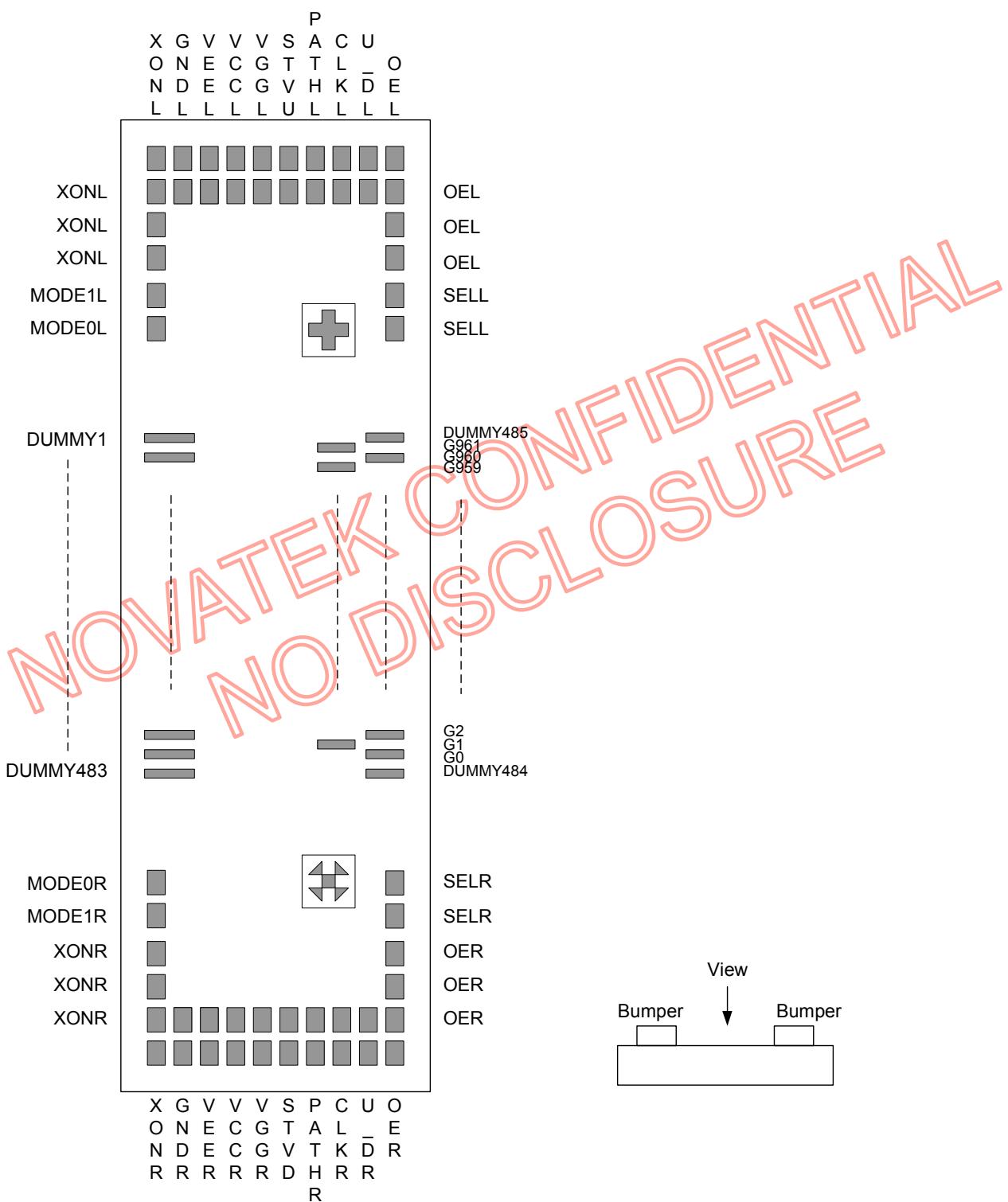
**Block Diagram**
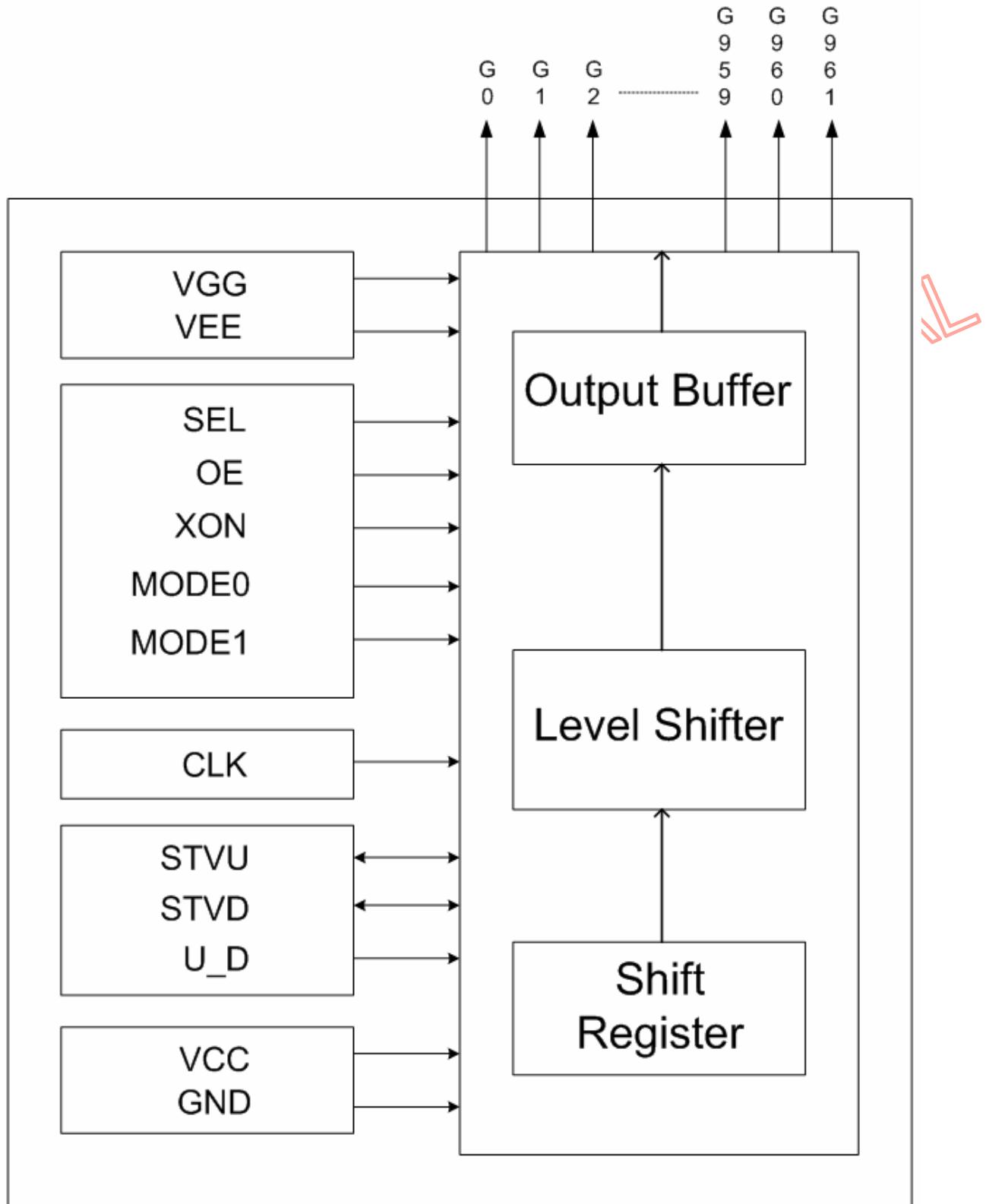
## Pin Descriptions

| Symbol | I/O | Description |
|---|---|---|
| XONR, XONL (pull-up) | I | When XON goes low, all outputs are fixed to VGG. XON signal has priority over OE .Normally pull up. |
| OER, OEL | I | These pads are shorted internally.<br>When this pin is applied to "H", the channel outputs are disabled (=VEE). This condition will not affect the operation of the internal registers. OE control signal is independent with the CLK. |
| U_DR, U_DL | I | Shift up/down control signal<br>U_D = "H", up shift: STVD (Input) → G1 ~ G960 → STVU (Output)<br>U_D = "L", down shift: STVU (Input) → G960 ~ G1 → STVD (Output) |
| SELR, SELL | I | Output sequence control<br>This pin controls the driver output sequence.<br>SEL=H:Normal output sequence<br>SEL=L:Special output sequence for testing |
| CLKR, CLKL | I | Shift clock signal for internal shift register |
| PATHR, PATHL | S | Internally connected together |
| STVD | I/O | This pin operates as an input pin under the condition of U_D = "H" and receives a pulse signal; this pin operates as an output pin under the condition of U_D="L" and send a pulse signal.<br>Please refer to the descriptions of "STVU" and "U_D". |
| STVU | I/O | This pin operates as an input pin under the condition of U_D = "L" and receives a pulse signal; this pin operates as an output pin under the condition of U_D="H" and send a pulse signal.<br>Please refer to the descriptions of "STVD" and "U_D". |
| VGGR, VGGL | P | Positive power supply for G1 ~ G960 outputs |
| VEER, VEEL | P | Negative power supply for G0 ~ G961 outputs |
| VCCR, VCCL | P | Power supply for digital circuits |
| GNDR, GNDL | P | Ground |
| G1 ~ G960 | O | Pulse signals for driving the gates on TFT-LCD<br>VGG minus VEE is the amplitude of G1 ~ G960. The timing of G1 ~ G960 is synchronous with the rising edge of the shift clock CLK. |
| G0, G961 | O | Auxiliary pins. Regardless of shift data, G0 and G961 always output the potential of VEE. |

| MODE0, MODE1 (pull-up) | I | Selecting the output mode: 960/816/864/800 channels,MODE0、MODE1 Normally pull up. | | | |
|---|---|---|---|---|---|
| | | MODE0 | MODE1 | output channels | Remark |
| | | 0 | 0 | 800 | Using G1 ~ G400 and G561 ~ G960, Others are fixed to VGL. |
| | | 0 | 1 | 816 | Using G1 ~ G408 and G553 ~ G960, Others are fixed to VGL. |
| | | 1 | 0 | 864 | Using G1 ~ G432 and G529 ~ G960, Others are fixed to VGL. |
| | | 1 | 1 | 960 | Using G1 ~ G960. Default setting |

Note: I: Input; O: Output; I/O: Input/Output; P: Power; S: Shorted line.

**Pass lines and pad names**

| Pass Line No. | Pad Name | |
|---|---|---|
| 1 | SELR | SELL |
| 2 | OER | OEL |
| 3 | U_DR | U_DL |
| 4 | CLKR | CLKL |
| 5 | PATHR | PATHL |
| 6 | VGGR | VGGL |
| 7 | VCCR | VCCL |
| 8 | VEER | VEEL |
| 9 | GNDR | GNDL |
| 10 | XONR | XONL |
| 11 | MODE1R | MODE1L |
| 12 | MODE0R | MODE0L |

## Functional Descriptions

### 1. Power on/off sequence:

    This IC is a high-voltage LCD driver, so it may be damaged by a large current flow if an incorrect power sequence is used. A recommended sequence is to connect the driver powers, VEE & VGG or VGG & VEE, after the logical power, VCC.

    For power-off sequence, either turning off logic system after shutting off the driver power or turning off all power simultaneously at the same time are suggested.

■ **Power on sequence – 1 (VCC → VEE → VGG)**
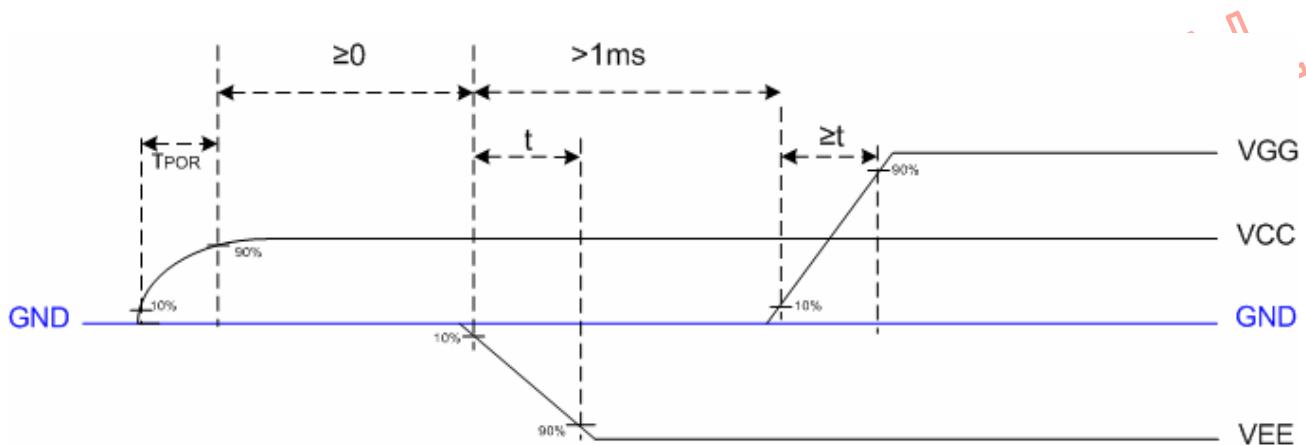
■ **Power off sequence (VGG → VEE → VCC)**

## 2. Power level:

LCD drive output

VGG · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · ·

Logic level

VCC · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · ·

GND · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · ·

VEE · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · ·
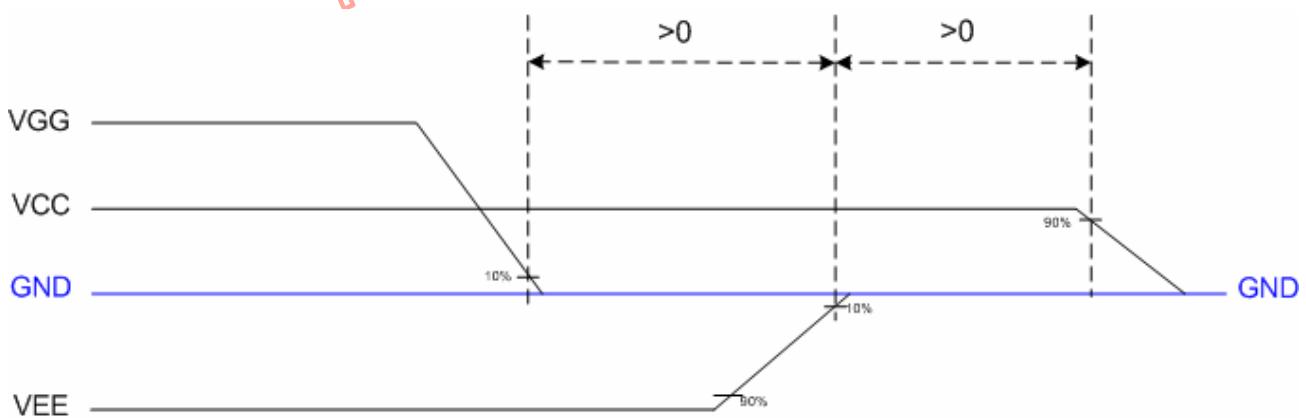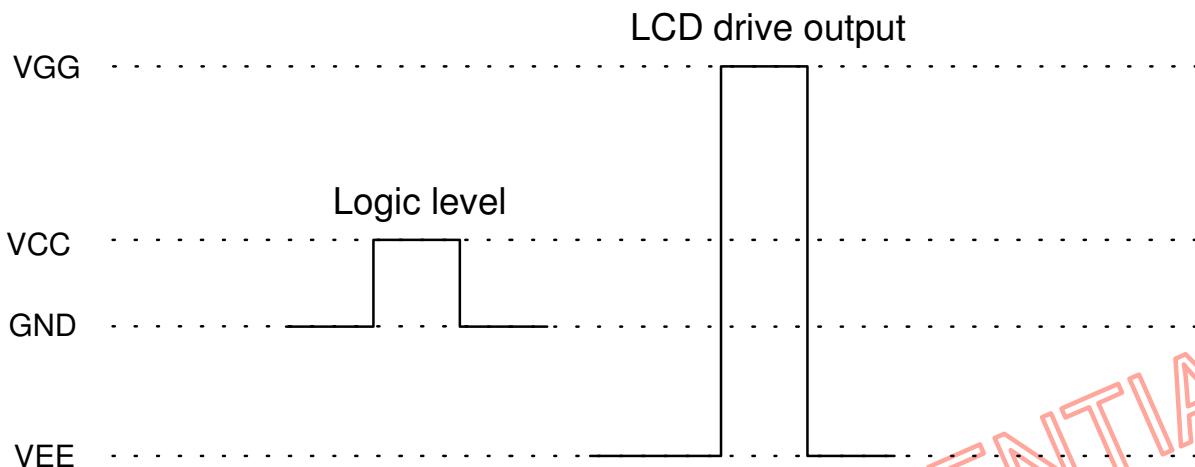
Note2: For the input signals: CLK, MODE, XON, SEL, OE, U_D, STVD & STVU, "High" level = VCC, "Low" level = GND.

## Absolute Maximum Ratings*

| | |
|---|---|
| Logic supply voltage, VCC | -0.3V to +7V |
| Supply voltage, VGG | -0.3Vto+42V |
| Supply voltage, VEE | -20V to +0.3V |
| Supply range, VGG-VEE | -0.3V to +40V |
| Operating temperature | -30 $^{o}$C to +85 $^{o}$C |
| Storage temperature | -55 $^{o}$C to +125 $^{o}$C |

## *Comments

Stresses above those listed under "Absolute Maximum Rating" may cause permanent damage to the device. These are stress ratings only. Functional operation of this device at these or any other conditions above those indicated in the operational sections of this specification is not implied and exposure to absolute maximum rating conditions for extended periods may affect device reliability.

## DC Electrical Characteristics

| Symbol | Parameters | Min. | Typ. | Max. | Unit | Conditions |
|--------|-----------|------|------|------|------|-----------|
| VGG | VGG Voltage | 7 | - | VEE + 40 | V | |
| VEE | VEE Voltage | -20 | - | -5 | V | |
| Vxo | Voltage Range of VGG – VEE | 12 | - | 40 | V | VCC = 3.3V |
| VCC | VCC Supplied Voltage | 2.3 | 3.3 | 3.6 | V | |
| VIH | High Level Input Voltage | 0.7VCC | - | VCC | V | VCC = 3.3V |
| VIL | Low Level Input Voltage | 0 | - | 0.3VCC | V | VCC = 3.3V |
| IXOH | High Level Output Current | 0.5 | - | - | mA | Driving current, VO = VGG – 0.5V |
| IXOL | Low Level Output Current | - | - | -0.5 | mA | Sinking current, VO = VEE + 0.5V |
| IPOH | High Level Output Current | 200 | - | - | uA | STVD/STVU, VO = VCC – 0.3V |
| IPOL | Low Level Output Current | - | - | -200 | uA | STVD/STVU, VO = 0.3V |
| Rin | Pull-up Impedance | 70K | 200K | 400K | ohm | XON、MODE pin, When VCC=3.3V and TA=25℃ |
| IIL | Input Leakage Current | - | - | ±1 | uA | Except XON、MODE pin |
| ICC | Operating Current Consumption | - | - | 50 | uA | VCC=3.3V, Fclk=20KHz, No load |
| IGG | Operating Current Consumption | - | - | 100 | uA | VGG=25V, Fclk=20KHz, No load |
| IEE | Operating Current Consumption | - | - | -100 | uA | VEE=-15V, Fclk=20KHz, No load |

**AC Electrical Characteristics (VGG=25V, VEE=-15V, VCC=3.3V, GND=0V, TA= 25 $^o$C)**

| Symbol | Parameters | Min. | Typ. | Max. | Unit | Conditions |
|--------|-----------|------|------|------|------|-----------|
| Tdt | STVD/STVU Delay Time | - | - | 500 | ns | CL = 20pF |
| Tdo | Driver Output Delay Time | - | - | 900 | ns | CL = 200pF |
| Tthl | Output Falling Time | - | 400 | 800 | ns | CL = 200pF, 90% to 10% |
| Ttlh | Output Rising Time | - | 500 | 1000 | ns | CL = 200pF, 10% to 90% |
| Txon | XON to Driver Output Delay Time | - | - | 20 | us | CL = 200pF |
| Toe | OEx to Driver Output Delay Time | - | - | 900 | ns | CL = 200pF |
| Fclk | Clock Frequency | - | - | 200 | KHz | In cascade connection |
| Trck | Clock Rising Time | - | - | 100 | ns | CL = 20pF |
| Tfck | Clock Falling Time | - | - | 100 | ns | CL = 20pF |
| PWCLK | Clock Pulse Width (High & Low) | 500 | - | - | ns | |
| Tsu | STVD/STVU Set-Up Time | 200 | - | - | ns | |
| Thd | STVD/STVU Hold Time | 300 | - | - | ns | |
| Twcl | Output Enabled Pulse Width | 1 | - | - | us | |
| TPOR | Power-On Reset slew time | - | - | 20 | ms | From 10% to 90% VCC |

## Timing Waveforms
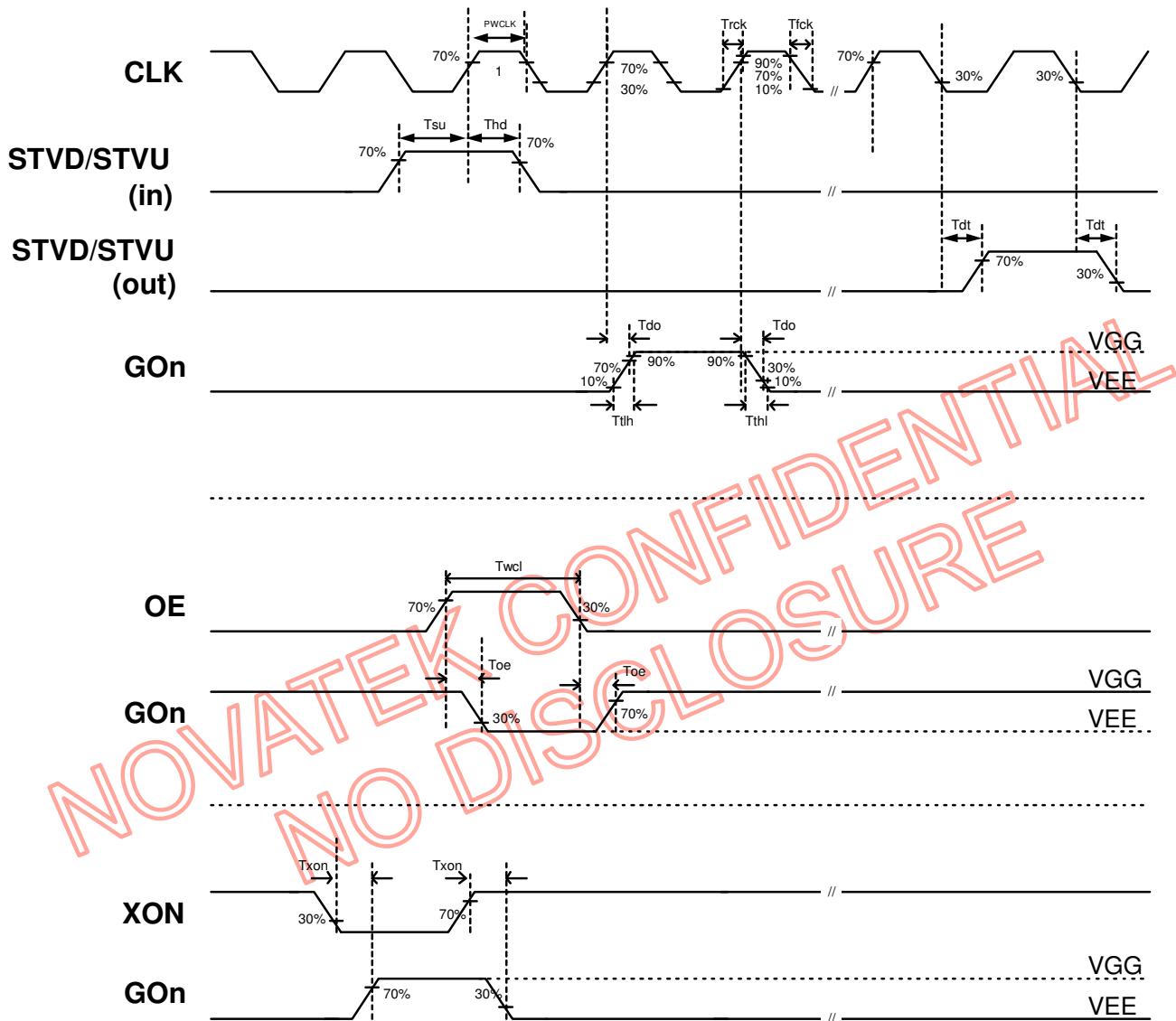
## Operating Condition :

### 1. U/D = "H"
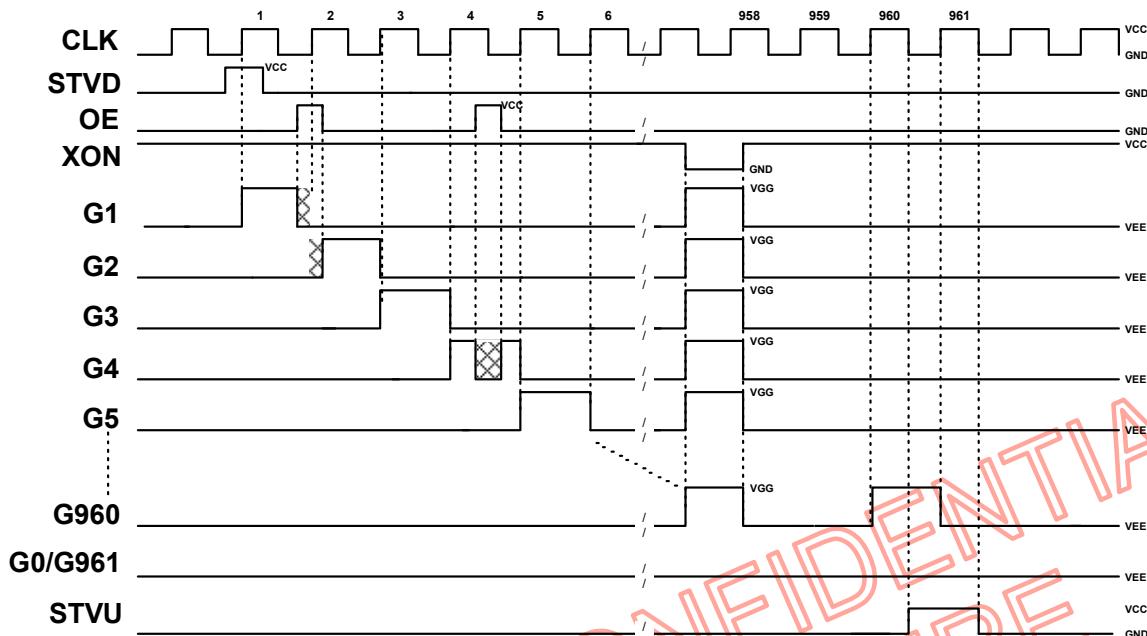


### 2. U/D = "L"
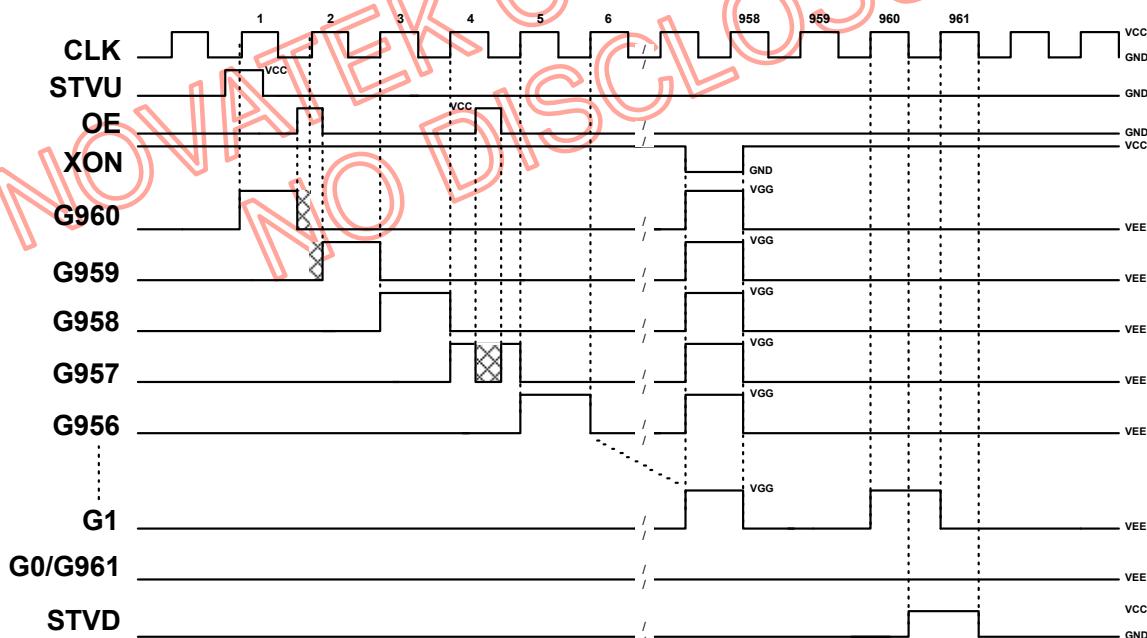


⊠ Deleted from normal output by OE

## Chip Outline Dimensions
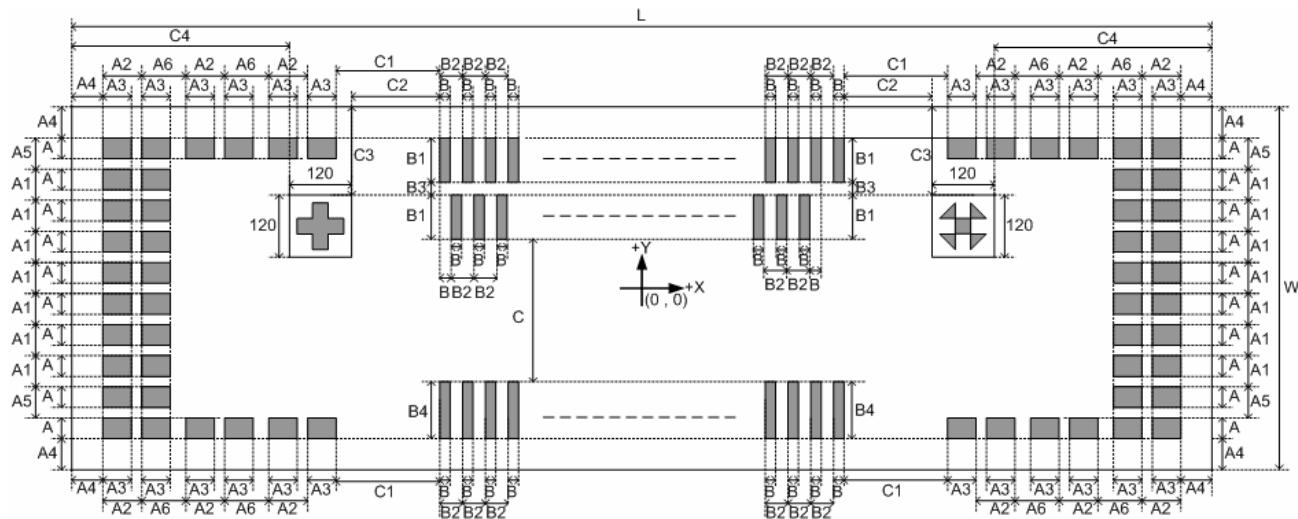


### Alignment Mark Dimensions

**Left Side**  **Right Side**
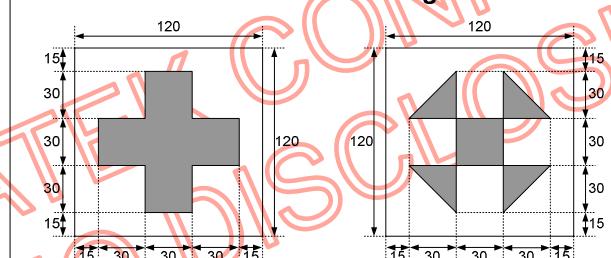


| Symbol | Dimensions (um) | Symbol | Dimensions (um) | Symbol | Dimensions (um) |
|--------|-----------------|--------|-----------------|--------|-----------------|
| A  | 40   | B  | 22  | C2 | 170       |
| A1 | 63   | B1 | 85  | C3 | 160       |
| A2 | 75   | B2 | 44  | C4 | 425       |
| A3 | 55   | B3 | 25  | L  | 22660(Max)|
| A4 | 65   | B4 | 110 | W  | 740(Max)  |
| A5 | 64.5 | C  | 305 |    |           |
| A6 | 85   | C1 | 200 |    |           |

(scribe-line included)

## Bonding Diagram

| Pad No. | Designation | X | Y | Pad No. | Designation | X | Y |
|---|---|---|---|---|---|---|---|
| 1 | XONL | -11237.5 | -285 | 41 | DUMMY35 | -9108 | -250 |
| 2 | XONL | -11162.5 | -285 | 42 | DUMMY36 | -9064 | -250 |
| 3 | XONL | -11077.5 | -285 | 43 | DUMMY37 | -9020 | -250 |
| 4 | XONL | -11002.5 | -285 | 44 | DUMMY38 | -8976 | -250 |
| 5 | MODE1L | -10917.5 | -285 | 45 | DUMMY39 | -8932 | -250 |
| 6 | MODE0L | -10842.5 | -285 | 46 | DUMMY40 | -8888 | -250 |
| 7 | DUMMY1 | -10604 | -250 | 47 | DUMMY41 | -8844 | -250 |
| 8 | DUMMY2 | -10560 | -250 | 48 | DUMMY42 | -8800 | -250 |
| 9 | DUMMY3 | -10516 | -250 | 49 | DUMMY43 | -8756 | -250 |
| 10 | DUMMY4 | -10472 | -250 | 50 | DUMMY44 | -8712 | -250 |
| 11 | DUMMY5 | -10428 | -250 | 51 | DUMMY45 | -8668 | -250 |
| 12 | DUMMY6 | -10384 | -250 | 52 | DUMMY46 | -8624 | -250 |
| 13 | DUMMY7 | -10340 | -250 | 53 | DUMMY47 | -8580 | -250 |
| 14 | DUMMY8 | -10296 | -250 | 54 | DUMMY48 | -8536 | -250 |
| 15 | DUMMY9 | -10252 | -250 | 55 | DUMMY49 | -8492 | -250 |
| 16 | DUMMY10 | -10208 | -250 | 56 | DUMMY50 | -8448 | -250 |
| 17 | DUMMY11 | -10164 | -250 | 57 | DUMMY51 | -8404 | -250 |
| 18 | DUMMY12 | -10120 | -250 | 58 | DUMMY52 | -8360 | -250 |
| 19 | DUMMY13 | -10076 | -250 | 59 | DUMMY53 | -8316 | -250 |
| 20 | DUMMY14 | -10032 | -250 | 60 | DUMMY54 | -8272 | -250 |
| 21 | DUMMY15 | -9988 | -250 | 61 | DUMMY55 | -8228 | -250 |
| 22 | DUMMY16 | -9944 | -250 | 62 | DUMMY56 | -8184 | -250 |
| 23 | DUMMY17 | -9900 | -250 | 63 | DUMMY57 | -8140 | -250 |
| 24 | DUMMY18 | -9856 | -250 | 64 | DUMMY58 | -8096 | -250 |
| 25 | DUMMY19 | -9812 | -250 | 65 | DUMMY59 | -8052 | -250 |
| 26 | DUMMY20 | -9768 | -250 | 66 | DUMMY60 | -8008 | -250 |
| 27 | DUMMY21 | -9724 | -250 | 67 | DUMMY61 | -7964 | -250 |
| 28 | DUMMY22 | -9680 | -250 | 68 | DUMMY62 | -7920 | -250 |
| 29 | DUMMY23 | -9636 | -250 | 69 | DUMMY63 | -7876 | -250 |
| 30 | DUMMY24 | -9592 | -250 | 70 | DUMMY64 | -7832 | -250 |
| 31 | DUMMY25 | -9548 | -250 | 71 | DUMMY65 | -7788 | -250 |
| 32 | DUMMY26 | -9504 | -250 | 72 | DUMMY66 | -7744 | -250 |
| 33 | DUMMY27 | -9460 | -250 | 73 | DUMMY67 | -7700 | -250 |
| 34 | DUMMY28 | -9416 | -250 | 74 | DUMMY68 | -7656 | -250 |
| 35 | DUMMY29 | -9372 | -250 | 75 | DUMMY69 | -7612 | -250 |
| 36 | DUMMY30 | -9328 | -250 | 76 | DUMMY70 | -7568 | -250 |
| 37 | DUMMY31 | -9284 | -250 | 77 | DUMMY71 | -7524 | -250 |
| 38 | DUMMY32 | -9240 | -250 | 78 | DUMMY72 | -7480 | -250 |
| 39 | DUMMY33 | -9196 | -250 | 79 | DUMMY73 | -7436 | -250 |
| 40 | DUMMY34 | -9152 | -250 | 80 | DUMMY74 | -7392 | -250 |

| Pad No. | Designation | X | Y | Pad No. | Designation | X | Y |
|---------|-------------|------|------|---------|-------------|------|------|
| 81 | DUMMY75 | -7348 | -250 | 121 | DUMMY115 | -5588 | -250 |
| 82 | DUMMY76 | -7304 | -250 | 122 | DUMMY116 | -5544 | -250 |
| 83 | DUMMY77 | -7260 | -250 | 123 | DUMMY117 | -5500 | -250 |
| 84 | DUMMY78 | -7216 | -250 | 124 | DUMMY118 | -5456 | -250 |
| 85 | DUMMY79 | -7172 | -250 | 125 | DUMMY119 | -5412 | -250 |
| 86 | DUMMY80 | -7128 | -250 | 126 | DUMMY120 | -5368 | -250 |
| 87 | DUMMY81 | -7084 | -250 | 127 | DUMMY121 | -5324 | -250 |
| 88 | DUMMY82 | -7040 | -250 | 128 | DUMMY122 | -5280 | -250 |
| 89 | DUMMY83 | -6996 | -250 | 129 | DUMMY123 | -5236 | -250 |
| 90 | DUMMY84 | -6952 | -250 | 130 | DUMMY124 | -5192 | -250 |
| 91 | DUMMY85 | -6908 | -250 | 131 | DUMMY125 | -5148 | -250 |
| 92 | DUMMY86 | -6864 | -250 | 132 | DUMMY126 | -5104 | -250 |
| 93 | DUMMY87 | -6820 | -250 | 133 | DUMMY127 | -5060 | -250 |
| 94 | DUMMY88 | -6776 | -250 | 134 | DUMMY128 | -5016 | -250 |
| 95 | DUMMY89 | -6732 | -250 | 135 | DUMMY129 | -4972 | -250 |
| 96 | DUMMY90 | -6688 | -250 | 136 | DUMMY130 | -4928 | -250 |
| 97 | DUMMY91 | -6644 | -250 | 137 | DUMMY131 | -4884 | -250 |
| 98 | DUMMY92 | -6600 | -250 | 138 | DUMMY132 | -4840 | -250 |
| 99 | DUMMY93 | -6556 | -250 | 139 | DUMMY133 | -4796 | -250 |
| 100 | DUMMY94 | -6512 | -250 | 140 | DUMMY134 | -4752 | -250 |
| 101 | DUMMY95 | -6468 | -250 | 141 | DUMMY135 | -4708 | -250 |
| 102 | DUMMY96 | -6424 | -250 | 142 | DUMMY136 | -4664 | -250 |
| 103 | DUMMY97 | -6380 | -250 | 143 | DUMMY137 | -4620 | -250 |
| 104 | DUMMY98 | -6336 | -250 | 144 | DUMMY138 | -4576 | -250 |
| 105 | DUMMY99 | -6292 | -250 | 145 | DUMMY139 | -4532 | -250 |
| 106 | DUMMY100 | -6248 | -250 | 146 | DUMMY140 | -4488 | -250 |
| 107 | DUMMY101 | -6204 | -250 | 147 | DUMMY141 | -4444 | -250 |
| 108 | DUMMY102 | -6160 | -250 | 148 | DUMMY142 | -4400 | -250 |
| 109 | DUMMY103 | -6116 | -250 | 149 | DUMMY143 | -4356 | -250 |
| 110 | DUMMY104 | -6072 | -250 | 150 | DUMMY144 | -4312 | -250 |
| 111 | DUMMY105 | -6028 | -250 | 151 | DUMMY145 | -4268 | -250 |
| 112 | DUMMY106 | -5984 | -250 | 152 | DUMMY146 | -4224 | -250 |
| 113 | DUMMY107 | -5940 | -250 | 153 | DUMMY147 | -4180 | -250 |
| 114 | DUMMY108 | -5896 | -250 | 154 | DUMMY148 | -4136 | -250 |
| 115 | DUMMY109 | -5852 | -250 | 155 | DUMMY149 | -4092 | -250 |
| 116 | DUMMY110 | -5808 | -250 | 156 | DUMMY150 | -4048 | -250 |
| 117 | DUMMY111 | -5764 | -250 | 157 | DUMMY151 | -4004 | -250 |
| 118 | DUMMY112 | -5720 | -250 | 158 | DUMMY152 | -3960 | -250 |
| 119 | DUMMY113 | -5676 | -250 | 159 | DUMMY153 | -3916 | -250 |
| 120 | DUMMY114 | -5632 | -250 | 160 | DUMMY154 | -3872 | -250 |

| Pad No. | Designation | X | Y | Pad No. | Designation | X | Y |
|---|---|---|---|---|---|---|---|
| 161 | DUMMY155 | -3828 | -250 | 201 | DUMMY195 | -2068 | -250 |
| 162 | DUMMY156 | -3784 | -250 | 202 | DUMMY196 | -2024 | -250 |
| 163 | DUMMY157 | -3740 | -250 | 203 | DUMMY197 | -1980 | -250 |
| 164 | DUMMY158 | -3696 | -250 | 204 | DUMMY198 | -1936 | -250 |
| 165 | DUMMY159 | -3652 | -250 | 205 | DUMMY199 | -1892 | -250 |
| 166 | DUMMY160 | -3608 | -250 | 206 | DUMMY200 | -1848 | -250 |
| 167 | DUMMY161 | -3564 | -250 | 207 | DUMMY201 | -1804 | -250 |
| 168 | DUMMY162 | -3520 | -250 | 208 | DUMMY202 | -1760 | -250 |
| 169 | DUMMY163 | -3476 | -250 | 209 | DUMMY203 | -1716 | -250 |
| 170 | DUMMY164 | -3432 | -250 | 210 | DUMMY204 | -1672 | -250 |
| 171 | DUMMY165 | -3388 | -250 | 211 | DUMMY205 | -1628 | -250 |
| 172 | DUMMY166 | -3344 | -250 | 212 | DUMMY206 | -1584 | -250 |
| 173 | DUMMY167 | -3300 | -250 | 213 | DUMMY207 | -1540 | -250 |
| 174 | DUMMY168 | -3256 | -250 | 214 | DUMMY208 | -1496 | -250 |
| 175 | DUMMY169 | -3212 | -250 | 215 | DUMMY209 | -1452 | -250 |
| 176 | DUMMY170 | -3168 | -250 | 216 | DUMMY210 | -1408 | -250 |
| 177 | DUMMY171 | -3124 | -250 | 217 | DUMMY211 | -1364 | -250 |
| 178 | DUMMY172 | -3080 | -250 | 218 | DUMMY212 | -1320 | -250 |
| 179 | DUMMY173 | -3036 | -250 | 219 | DUMMY213 | -1276 | -250 |
| 180 | DUMMY174 | -2992 | -250 | 220 | DUMMY214 | -1232 | -250 |
| 181 | DUMMY175 | -2948 | -250 | 221 | DUMMY215 | -1188 | -250 |
| 182 | DUMMY176 | -2904 | -250 | 222 | DUMMY216 | -1144 | -250 |
| 183 | DUMMY177 | -2860 | -250 | 223 | DUMMY217 | -1100 | -250 |
| 184 | DUMMY178 | -2816 | -250 | 224 | DUMMY218 | -1056 | -250 |
| 185 | DUMMY179 | -2772 | -250 | 225 | DUMMY219 | -1012 | -250 |
| 186 | DUMMY180 | -2728 | -250 | 226 | DUMMY220 | -968 | -250 |
| 187 | DUMMY181 | -2684 | -250 | 227 | DUMMY221 | -924 | -250 |
| 188 | DUMMY182 | -2640 | -250 | 228 | DUMMY222 | -880 | -250 |
| 189 | DUMMY183 | -2596 | -250 | 229 | DUMMY223 | -836 | -250 |
| 190 | DUMMY184 | -2552 | -250 | 230 | DUMMY224 | -792 | -250 |
| 191 | DUMMY185 | -2508 | -250 | 231 | DUMMY225 | -748 | -250 |
| 192 | DUMMY186 | -2464 | -250 | 232 | DUMMY226 | -704 | -250 |
| 193 | DUMMY187 | -2420 | -250 | 233 | DUMMY227 | -660 | -250 |
| 194 | DUMMY188 | -2376 | -250 | 234 | DUMMY228 | -616 | -250 |
| 195 | DUMMY189 | -2332 | -250 | 235 | DUMMY229 | -572 | -250 |
| 196 | DUMMY190 | -2288 | -250 | 236 | DUMMY230 | -528 | -250 |
| 197 | DUMMY191 | -2244 | -250 | 237 | DUMMY231 | -484 | -250 |
| 198 | DUMMY192 | -2200 | -250 | 238 | DUMMY232 | -440 | -250 |
| 199 | DUMMY193 | -2156 | -250 | 239 | DUMMY233 | -396 | -250 |
| 200 | DUMMY194 | -2112 | -250 | 240 | DUMMY234 | -352 | -250 |

| Pad No. | Designation | X | Y | Pad No. | Designation | X | Y |
|---|---|---|---|---|---|---|---|
| 241 | DUMMY235 | -308 | -250 | 281 | DUMMY275 | 1452 | -250 |
| 242 | DUMMY236 | -264 | -250 | 282 | DUMMY276 | 1496 | -250 |
| 243 | DUMMY237 | -220 | -250 | 283 | DUMMY277 | 1540 | -250 |
| 244 | DUMMY238 | -176 | -250 | 284 | DUMMY278 | 1584 | -250 |
| 245 | DUMMY239 | -132 | -250 | 285 | DUMMY279 | 1628 | -250 |
| 246 | DUMMY240 | -88 | -250 | 286 | DUMMY280 | 1672 | -250 |
| 247 | DUMMY241 | -44 | -250 | 287 | DUMMY281 | 1716 | -250 |
| 248 | DUMMY242 | 0 | -250 | 288 | DUMMY282 | 1760 | -250 |
| 249 | DUMMY243 | 44 | -250 | 289 | DUMMY283 | 1804 | -250 |
| 250 | DUMMY244 | 88 | -250 | 290 | DUMMY284 | 1848 | -250 |
| 251 | DUMMY245 | 132 | -250 | 291 | DUMMY285 | 1892 | -250 |
| 252 | DUMMY246 | 176 | -250 | 292 | DUMMY286 | 1936 | -250 |
| 253 | DUMMY247 | 220 | -250 | 293 | DUMMY287 | 1980 | -250 |
| 254 | DUMMY248 | 264 | -250 | 294 | DUMMY288 | 2024 | -250 |
| 255 | DUMMY249 | 308 | -250 | 295 | DUMMY289 | 2068 | -250 |
| 256 | DUMMY250 | 352 | -250 | 296 | DUMMY290 | 2112 | -250 |
| 257 | DUMMY251 | 396 | -250 | 297 | DUMMY291 | 2156 | -250 |
| 258 | DUMMY252 | 440 | -250 | 298 | DUMMY292 | 2200 | -250 |
| 259 | DUMMY253 | 484 | -250 | 299 | DUMMY293 | 2244 | -250 |
| 260 | DUMMY254 | 528 | -250 | 300 | DUMMY294 | 2288 | -250 |
| 261 | DUMMY255 | 572 | -250 | 301 | DUMMY295 | 2332 | -250 |
| 262 | DUMMY256 | 616 | -250 | 302 | DUMMY296 | 2376 | -250 |
| 263 | DUMMY257 | 660 | -250 | 303 | DUMMY297 | 2420 | -250 |
| 264 | DUMMY258 | 704 | -250 | 304 | DUMMY298 | 2464 | -250 |
| 265 | DUMMY259 | 748 | -250 | 305 | DUMMY299 | 2508 | -250 |
| 266 | DUMMY260 | 792 | -250 | 306 | DUMMY300 | 2552 | -250 |
| 267 | DUMMY261 | 836 | -250 | 307 | DUMMY301 | 2596 | -250 |
| 268 | DUMMY262 | 880 | -250 | 308 | DUMMY302 | 2640 | -250 |
| 269 | DUMMY263 | 924 | -250 | 309 | DUMMY303 | 2684 | -250 |
| 270 | DUMMY264 | 968 | -250 | 310 | DUMMY304 | 2728 | -250 |
| 271 | DUMMY265 | 1012 | -250 | 311 | DUMMY305 | 2772 | -250 |
| 272 | DUMMY266 | 1056 | -250 | 312 | DUMMY306 | 2816 | -250 |
| 273 | DUMMY267 | 1100 | -250 | 313 | DUMMY307 | 2860 | -250 |
| 274 | DUMMY268 | 1144 | -250 | 314 | DUMMY308 | 2904 | -250 |
| 275 | DUMMY269 | 1188 | -250 | 315 | DUMMY309 | 2948 | -250 |
| 276 | DUMMY270 | 1232 | -250 | 316 | DUMMY310 | 2992 | -250 |
| 277 | DUMMY271 | 1276 | -250 | 317 | DUMMY311 | 3036 | -250 |
| 278 | DUMMY272 | 1320 | -250 | 318 | DUMMY312 | 3080 | -250 |
| 279 | DUMMY273 | 1364 | -250 | 319 | DUMMY313 | 3124 | -250 |
| 280 | DUMMY274 | 1408 | -250 | 320 | DUMMY314 | 3168 | -250 |

| Pad No. | Designation | X | Y | Pad No. | Designation | X | Y |
|---|---|---|---|---|---|---|---|
| 321 | DUMMY315 | 3212 | -250 | 361 | DUMMY355 | 4972 | -250 |
| 322 | DUMMY316 | 3256 | -250 | 362 | DUMMY356 | 5016 | -250 |
| 323 | DUMMY317 | 3300 | -250 | 363 | DUMMY357 | 5060 | -250 |
| 324 | DUMMY318 | 3344 | -250 | 364 | DUMMY358 | 5104 | -250 |
| 325 | DUMMY319 | 3388 | -250 | 365 | DUMMY359 | 5148 | -250 |
| 326 | DUMMY320 | 3432 | -250 | 366 | DUMMY360 | 5192 | -250 |
| 327 | DUMMY321 | 3476 | -250 | 367 | DUMMY361 | 5236 | -250 |
| 328 | DUMMY322 | 3520 | -250 | 368 | DUMMY362 | 5280 | -250 |
| 329 | DUMMY323 | 3564 | -250 | 369 | DUMMY363 | 5324 | -250 |
| 330 | DUMMY324 | 3608 | -250 | 370 | DUMMY364 | 5368 | -250 |
| 331 | DUMMY325 | 3652 | -250 | 371 | DUMMY365 | 5412 | -250 |
| 332 | DUMMY326 | 3696 | -250 | 372 | DUMMY366 | 5456 | -250 |
| 333 | DUMMY327 | 3740 | -250 | 373 | DUMMY367 | 5500 | -250 |
| 334 | DUMMY328 | 3784 | -250 | 374 | DUMMY368 | 5544 | -250 |
| 335 | DUMMY329 | 3828 | -250 | 375 | DUMMY369 | 5588 | -250 |
| 336 | DUMMY330 | 3872 | -250 | 376 | DUMMY370 | 5632 | -250 |
| 337 | DUMMY331 | 3916 | -250 | 377 | DUMMY371 | 5676 | -250 |
| 338 | DUMMY332 | 3960 | -250 | 378 | DUMMY372 | 5720 | -250 |
| 339 | DUMMY333 | 4004 | -250 | 379 | DUMMY373 | 5764 | -250 |
| 340 | DUMMY334 | 4048 | -250 | 380 | DUMMY374 | 5808 | -250 |
| 341 | DUMMY335 | 4092 | -250 | 381 | DUMMY375 | 5852 | -250 |
| 342 | DUMMY336 | 4136 | -250 | 382 | DUMMY376 | 5896 | -250 |
| 343 | DUMMY337 | 4180 | -250 | 383 | DUMMY377 | 5940 | -250 |
| 344 | DUMMY338 | 4224 | -250 | 384 | DUMMY378 | 5984 | -250 |
| 345 | DUMMY339 | 4268 | -250 | 385 | DUMMY379 | 6028 | -250 |
| 346 | DUMMY340 | 4312 | -250 | 386 | DUMMY380 | 6072 | -250 |
| 347 | DUMMY341 | 4356 | -250 | 387 | DUMMY381 | 6116 | -250 |
| 348 | DUMMY342 | 4400 | -250 | 388 | DUMMY382 | 6160 | -250 |
| 349 | DUMMY343 | 4444 | -250 | 389 | DUMMY383 | 6204 | -250 |
| 350 | DUMMY344 | 4488 | -250 | 390 | DUMMY384 | 6248 | -250 |
| 351 | DUMMY345 | 4532 | -250 | 391 | DUMMY385 | 6292 | -250 |
| 352 | DUMMY346 | 4576 | -250 | 392 | DUMMY386 | 6336 | -250 |
| 353 | DUMMY347 | 4620 | -250 | 393 | DUMMY387 | 6380 | -250 |
| 354 | DUMMY348 | 4664 | -250 | 394 | DUMMY388 | 6424 | -250 |
| 355 | DUMMY349 | 4708 | -250 | 395 | DUMMY389 | 6468 | -250 |
| 356 | DUMMY350 | 4752 | -250 | 396 | DUMMY390 | 6512 | -250 |
| 357 | DUMMY351 | 4796 | -250 | 397 | DUMMY391 | 6556 | -250 |
| 358 | DUMMY352 | 4840 | -250 | 398 | DUMMY392 | 6600 | -250 |
| 359 | DUMMY353 | 4884 | -250 | 399 | DUMMY393 | 6644 | -250 |
| 360 | DUMMY354 | 4928 | -250 | 400 | DUMMY394 | 6688 | -250 |

| Pad No. | Designation | X | Y | Pad No. | Designation | X | Y |
|---|---|---|---|---|---|---|---|
| 401 | DUMMY395 | 6732 | -250 | 441 | DUMMY435 | 8492 | -250 |
| 402 | DUMMY396 | 6776 | -250 | 442 | DUMMY436 | 8536 | -250 |
| 403 | DUMMY397 | 6820 | -250 | 443 | DUMMY437 | 8580 | -250 |
| 404 | DUMMY398 | 6864 | -250 | 444 | DUMMY438 | 8624 | -250 |
| 405 | DUMMY399 | 6908 | -250 | 445 | DUMMY439 | 8668 | -250 |
| 406 | DUMMY400 | 6952 | -250 | 446 | DUMMY440 | 8712 | -250 |
| 407 | DUMMY401 | 6996 | -250 | 447 | DUMMY441 | 8756 | -250 |
| 408 | DUMMY402 | 7040 | -250 | 448 | DUMMY442 | 8800 | -250 |
| 409 | DUMMY403 | 7084 | -250 | 449 | DUMMY443 | 8844 | -250 |
| 410 | DUMMY404 | 7128 | -250 | 450 | DUMMY444 | 8888 | -250 |
| 411 | DUMMY405 | 7172 | -250 | 451 | DUMMY445 | 8932 | -250 |
| 412 | DUMMY406 | 7216 | -250 | 452 | DUMMY446 | 8976 | -250 |
| 413 | DUMMY407 | 7260 | -250 | 453 | DUMMY447 | 9020 | -250 |
| 414 | DUMMY408 | 7304 | -250 | 454 | DUMMY448 | 9064 | -250 |
| 415 | DUMMY409 | 7348 | -250 | 455 | DUMMY449 | 9108 | -250 |
| 416 | DUMMY410 | 7392 | -250 | 456 | DUMMY450 | 9152 | -250 |
| 417 | DUMMY411 | 7436 | -250 | 457 | DUMMY451 | 9196 | -250 |
| 418 | DUMMY412 | 7480 | -250 | 458 | DUMMY452 | 9240 | -250 |
| 419 | DUMMY413 | 7524 | -250 | 459 | DUMMY453 | 9284 | -250 |
| 420 | DUMMY414 | 7568 | -250 | 460 | DUMMY454 | 9328 | -250 |
| 421 | DUMMY415 | 7612 | -250 | 461 | DUMMY455 | 9372 | -250 |
| 422 | DUMMY416 | 7656 | -250 | 462 | DUMMY456 | 9416 | -250 |
| 423 | DUMMY417 | 7700 | -250 | 463 | DUMMY457 | 9460 | -250 |
| 424 | DUMMY418 | 7744 | -250 | 464 | DUMMY458 | 9504 | -250 |
| 425 | DUMMY419 | 7788 | -250 | 465 | DUMMY459 | 9548 | -250 |
| 426 | DUMMY420 | 7832 | -250 | 466 | DUMMY460 | 9592 | -250 |
| 427 | DUMMY421 | 7876 | -250 | 467 | DUMMY461 | 9636 | -250 |
| 428 | DUMMY422 | 7920 | -250 | 468 | DUMMY462 | 9680 | -250 |
| 429 | DUMMY423 | 7964 | -250 | 469 | DUMMY463 | 9724 | -250 |
| 430 | DUMMY424 | 8008 | -250 | 470 | DUMMY464 | 9768 | -250 |
| 431 | DUMMY425 | 8052 | -250 | 471 | DUMMY465 | 9812 | -250 |
| 432 | DUMMY426 | 8096 | -250 | 472 | DUMMY466 | 9856 | -250 |
| 433 | DUMMY427 | 8140 | -250 | 473 | DUMMY467 | 9900 | -250 |
| 434 | DUMMY428 | 8184 | -250 | 474 | DUMMY468 | 9944 | -250 |
| 435 | DUMMY429 | 8228 | -250 | 475 | DUMMY469 | 9988 | -250 |
| 436 | DUMMY430 | 8272 | -250 | 476 | DUMMY470 | 10032 | -250 |
| 437 | DUMMY431 | 8316 | -250 | 477 | DUMMY471 | 10076 | -250 |
| 438 | DUMMY432 | 8360 | -250 | 478 | DUMMY472 | 10120 | -250 |
| 439 | DUMMY433 | 8404 | -250 | 479 | DUMMY473 | 10164 | -250 |
| 440 | DUMMY434 | 8448 | -250 | 480 | DUMMY474 | 10208 | -250 |

| Pad No. | Designation | X | Y | Pad No. | Designation | X | Y |
|---------|-------------|---------|--------|---------|-------------|---------|--------|
| 481 | DUMMY475 | 10252 | -250 | 521 | G2 | 10516 | 262.5 |
| 482 | DUMMY476 | 10296 | -250 | 522 | G3 | 10494 | 152.5 |
| 483 | DUMMY477 | 10340 | -250 | 523 | G4 | 10472 | 262.5 |
| 484 | DUMMY478 | 10384 | -250 | 524 | G5 | 10450 | 152.5 |
| 485 | DUMMY479 | 10428 | -250 | 525 | G6 | 10428 | 262.5 |
| 486 | DUMMY480 | 10472 | -250 | 526 | G7 | 10406 | 152.5 |
| 487 | DUMMY481 | 10516 | -250 | 527 | G8 | 10384 | 262.5 |
| 488 | DUMMY482 | 10560 | -250 | 528 | G9 | 10362 | 152.5 |
| 489 | DUMMY483 | 10604 | -250 | 529 | G10 | 10340 | 262.5 |
| 490 | MODE0R | 10842.5 | -285 | 530 | G11 | 10318 | 152.5 |
| 491 | MODE1R | 10917.5 | -285 | 531 | G12 | 10296 | 262.5 |
| 492 | XONR | 11002.5 | -285 | 532 | G13 | 10274 | 152.5 |
| 493 | XONR | 11077.5 | -285 | 533 | G14 | 10252 | 262.5 |
| 494 | XONR | 11162.5 | -285 | 534 | G15 | 10230 | 152.5 |
| 495 | XONR | 11237.5 | -285 | 535 | G16 | 10208 | 262.5 |
| 496 | GNDR | 11162.5 | -220.5 | 536 | G17 | 10186 | 152.5 |
| 497 | GNDR | 11237.5 | -220.5 | 537 | G18 | 10164 | 262.5 |
| 498 | VEER | 11162.5 | -157.5 | 538 | G19 | 10142 | 152.5 |
| 499 | VEER | 11237.5 | -157.5 | 539 | G20 | 10120 | 262.5 |
| 500 | VCCR | 11162.5 | -94.5 | 540 | G21 | 10098 | 152.5 |
| 501 | VCCR | 11237.5 | -94.5 | 541 | G22 | 10076 | 262.5 |
| 502 | VGGR | 11162.5 | -31.5 | 542 | G23 | 10054 | 152.5 |
| 503 | VGGR | 11237.5 | -31.5 | 543 | G24 | 10032 | 262.5 |
| 504 | STVD | 11162.5 | 31.5 | 544 | G25 | 10010 | 152.5 |
| 505 | STVD | 11237.5 | 31.5 | 545 | G26 | 9988 | 262.5 |
| 506 | PATHR | 11162.5 | 94.5 | 546 | G27 | 9966 | 152.5 |
| 507 | PATHR | 11237.5 | 94.5 | 547 | G28 | 9944 | 262.5 |
| 508 | CLKR | 11162.5 | 157.5 | 548 | G29 | 9922 | 152.5 |
| 509 | CLKR | 11237.5 | 157.5 | 549 | G30 | 9900 | 262.5 |
| 510 | U_DR | 11162.5 | 220.5 | 550 | G31 | 9878 | 152.5 |
| 511 | U_DR | 11237.5 | 220.5 | 551 | G32 | 9856 | 262.5 |
| 512 | OER | 11237.5 | 285 | 552 | G33 | 9834 | 152.5 |
| 513 | OER | 11162.5 | 285 | 553 | G34 | 9812 | 262.5 |
| 514 | OER | 11077.5 | 285 | 554 | G35 | 9790 | 152.5 |
| 515 | OER | 11002.5 | 285 | 555 | G36 | 9768 | 262.5 |
| 516 | SELR | 10917.5 | 285 | 556 | G37 | 9746 | 152.5 |
| 517 | SELR | 10842.5 | 285 | 557 | G38 | 9724 | 262.5 |
| 518 | DUMMY484 | 10604 | 262.5 | 558 | G39 | 9702 | 152.5 |
| 519 | G0 | 10560 | 262.5 | 559 | G40 | 9680 | 262.5 |
| 520 | G1 | 10538 | 152.5 | 560 | G41 | 9658 | 152.5 |

| Pad No. | Designation | X | Y | Pad No. | Designation | X | Y |
|---------|-------------|------|-------|---------|-------------|------|-------|
| 561 | G42 | 9636 | 262.5 | 601 | G82 | 8756 | 262.5 |
| 562 | G43 | 9614 | 152.5 | 602 | G83 | 8734 | 152.5 |
| 563 | G44 | 9592 | 262.5 | 603 | G84 | 8712 | 262.5 |
| 564 | G45 | 9570 | 152.5 | 604 | G85 | 8690 | 152.5 |
| 565 | G46 | 9548 | 262.5 | 605 | G86 | 8668 | 262.5 |
| 566 | G47 | 9526 | 152.5 | 606 | G87 | 8646 | 152.5 |
| 567 | G48 | 9504 | 262.5 | 607 | G88 | 8624 | 262.5 |
| 568 | G49 | 9482 | 152.5 | 608 | G89 | 8602 | 152.5 |
| 569 | G50 | 9460 | 262.5 | 609 | G90 | 8580 | 262.5 |
| 570 | G51 | 9438 | 152.5 | 610 | G91 | 8558 | 152.5 |
| 571 | G52 | 9416 | 262.5 | 611 | G92 | 8536 | 262.5 |
| 572 | G53 | 9394 | 152.5 | 612 | G93 | 8514 | 152.5 |
| 573 | G54 | 9372 | 262.5 | 613 | G94 | 8492 | 262.5 |
| 574 | G55 | 9350 | 152.5 | 614 | G95 | 8470 | 152.5 |
| 575 | G56 | 9328 | 262.5 | 615 | G96 | 8448 | 262.5 |
| 576 | G57 | 9306 | 152.5 | 616 | G97 | 8426 | 152.5 |
| 577 | G58 | 9284 | 262.5 | 617 | G98 | 8404 | 262.5 |
| 578 | G59 | 9262 | 152.5 | 618 | G99 | 8382 | 152.5 |
| 579 | G60 | 9240 | 262.5 | 619 | G100 | 8360 | 262.5 |
| 580 | G61 | 9218 | 152.5 | 620 | G101 | 8338 | 152.5 |
| 581 | G62 | 9196 | 262.5 | 621 | G102 | 8316 | 262.5 |
| 582 | G63 | 9174 | 152.5 | 622 | G103 | 8294 | 152.5 |
| 583 | G64 | 9152 | 262.5 | 623 | G104 | 8272 | 262.5 |
| 584 | G65 | 9130 | 152.5 | 624 | G105 | 8250 | 152.5 |
| 585 | G66 | 9108 | 262.5 | 625 | G106 | 8228 | 262.5 |
| 586 | G67 | 9086 | 152.5 | 626 | G107 | 8206 | 152.5 |
| 587 | G68 | 9064 | 262.5 | 627 | G108 | 8184 | 262.5 |
| 588 | G69 | 9042 | 152.5 | 628 | G109 | 8162 | 152.5 |
| 589 | G70 | 9020 | 262.5 | 629 | G110 | 8140 | 262.5 |
| 590 | G71 | 8998 | 152.5 | 630 | G111 | 8118 | 152.5 |
| 591 | G72 | 8976 | 262.5 | 631 | G112 | 8096 | 262.5 |
| 592 | G73 | 8954 | 152.5 | 632 | G113 | 8074 | 152.5 |
| 593 | G74 | 8932 | 262.5 | 633 | G114 | 8052 | 262.5 |
| 594 | G75 | 8910 | 152.5 | 634 | G115 | 8030 | 152.5 |
| 595 | G76 | 8888 | 262.5 | 635 | G116 | 8008 | 262.5 |
| 596 | G77 | 8866 | 152.5 | 636 | G117 | 7986 | 152.5 |
| 597 | G78 | 8844 | 262.5 | 637 | G118 | 7964 | 262.5 |
| 598 | G79 | 8822 | 152.5 | 638 | G119 | 7942 | 152.5 |
| 599 | G80 | 8800 | 262.5 | 639 | G120 | 7920 | 262.5 |
| 600 | G81 | 8778 | 152.5 | 640 | G121 | 7898 | 152.5 |

| Pad No. | Designation | X | Y | Pad No. | Designation | X | Y |
|---------|-------------|------|-------|---------|-------------|------|-------|
| 641 | G122 | 7876 | 262.5 | 681 | G162 | 6996 | 262.5 |
| 642 | G123 | 7854 | 152.5 | 682 | G163 | 6974 | 152.5 |
| 643 | G124 | 7832 | 262.5 | 683 | G164 | 6952 | 262.5 |
| 644 | G125 | 7810 | 152.5 | 684 | G165 | 6930 | 152.5 |
| 645 | G126 | 7788 | 262.5 | 685 | G166 | 6908 | 262.5 |
| 646 | G127 | 7766 | 152.5 | 686 | G167 | 6886 | 152.5 |
| 647 | G128 | 7744 | 262.5 | 687 | G168 | 6864 | 262.5 |
| 648 | G129 | 7722 | 152.5 | 688 | G169 | 6842 | 152.5 |
| 649 | G130 | 7700 | 262.5 | 689 | G170 | 6820 | 262.5 |
| 650 | G131 | 7678 | 152.5 | 690 | G171 | 6798 | 152.5 |
| 651 | G132 | 7656 | 262.5 | 691 | G172 | 6776 | 262.5 |
| 652 | G133 | 7634 | 152.5 | 692 | G173 | 6754 | 152.5 |
| 653 | G134 | 7612 | 262.5 | 693 | G174 | 6732 | 262.5 |
| 654 | G135 | 7590 | 152.5 | 694 | G175 | 6710 | 152.5 |
| 655 | G136 | 7568 | 262.5 | 695 | G176 | 6688 | 262.5 |
| 656 | G137 | 7546 | 152.5 | 696 | G177 | 6666 | 152.5 |
| 657 | G138 | 7524 | 262.5 | 697 | G178 | 6644 | 262.5 |
| 658 | G139 | 7502 | 152.5 | 698 | G179 | 6622 | 152.5 |
| 659 | G140 | 7480 | 262.5 | 699 | G180 | 6600 | 262.5 |
| 660 | G141 | 7458 | 152.5 | 700 | G181 | 6578 | 152.5 |
| 661 | G142 | 7436 | 262.5 | 701 | G182 | 6556 | 262.5 |
| 662 | G143 | 7414 | 152.5 | 702 | G183 | 6534 | 152.5 |
| 663 | G144 | 7392 | 262.5 | 703 | G184 | 6512 | 262.5 |
| 664 | G145 | 7370 | 152.5 | 704 | G185 | 6490 | 152.5 |
| 665 | G146 | 7348 | 262.5 | 705 | G186 | 6468 | 262.5 |
| 666 | G147 | 7326 | 152.5 | 706 | G187 | 6446 | 152.5 |
| 667 | G148 | 7304 | 262.5 | 707 | G188 | 6424 | 262.5 |
| 668 | G149 | 7282 | 152.5 | 708 | G189 | 6402 | 152.5 |
| 669 | G150 | 7260 | 262.5 | 709 | G190 | 6380 | 262.5 |
| 670 | G151 | 7238 | 152.5 | 710 | G191 | 6358 | 152.5 |
| 671 | G152 | 7216 | 262.5 | 711 | G192 | 6336 | 262.5 |
| 672 | G153 | 7194 | 152.5 | 712 | G193 | 6314 | 152.5 |
| 673 | G154 | 7172 | 262.5 | 713 | G194 | 6292 | 262.5 |
| 674 | G155 | 7150 | 152.5 | 714 | G195 | 6270 | 152.5 |
| 675 | G156 | 7128 | 262.5 | 715 | G196 | 6248 | 262.5 |
| 676 | G157 | 7106 | 152.5 | 716 | G197 | 6226 | 152.5 |
| 677 | G158 | 7084 | 262.5 | 717 | G198 | 6204 | 262.5 |
| 678 | G159 | 7062 | 152.5 | 718 | G199 | 6182 | 152.5 |
| 679 | G160 | 7040 | 262.5 | 719 | G200 | 6160 | 262.5 |
| 680 | G161 | 7018 | 152.5 | 720 | G201 | 6138 | 152.5 |

| Pad No. | Designation | X | Y | Pad No. | Designation | X | Y |
|---|---|---|---|---|---|---|---|
| 721 | G202 | 6116 | 262.5 | 761 | G242 | 5236 | 262.5 |
| 722 | G203 | 6094 | 152.5 | 762 | G243 | 5214 | 152.5 |
| 723 | G204 | 6072 | 262.5 | 763 | G244 | 5192 | 262.5 |
| 724 | G205 | 6050 | 152.5 | 764 | G245 | 5170 | 152.5 |
| 725 | G206 | 6028 | 262.5 | 765 | G246 | 5148 | 262.5 |
| 726 | G207 | 6006 | 152.5 | 766 | G247 | 5126 | 152.5 |
| 727 | G208 | 5984 | 262.5 | 767 | G248 | 5104 | 262.5 |
| 728 | G209 | 5962 | 152.5 | 768 | G249 | 5082 | 152.5 |
| 729 | G210 | 5940 | 262.5 | 769 | G250 | 5060 | 262.5 |
| 730 | G211 | 5918 | 152.5 | 770 | G251 | 5038 | 152.5 |
| 731 | G212 | 5896 | 262.5 | 771 | G252 | 5016 | 262.5 |
| 732 | G213 | 5874 | 152.5 | 772 | G253 | 4994 | 152.5 |
| 733 | G214 | 5852 | 262.5 | 773 | G254 | 4972 | 262.5 |
| 734 | G215 | 5830 | 152.5 | 774 | G255 | 4950 | 152.5 |
| 735 | G216 | 5808 | 262.5 | 775 | G256 | 4928 | 262.5 |
| 736 | G217 | 5786 | 152.5 | 776 | G257 | 4906 | 152.5 |
| 737 | G218 | 5764 | 262.5 | 777 | G258 | 4884 | 262.5 |
| 738 | G219 | 5742 | 152.5 | 778 | G259 | 4862 | 152.5 |
| 739 | G220 | 5720 | 262.5 | 779 | G260 | 4840 | 262.5 |
| 740 | G221 | 5698 | 152.5 | 780 | G261 | 4818 | 152.5 |
| 741 | G222 | 5676 | 262.5 | 781 | G262 | 4796 | 262.5 |
| 742 | G223 | 5654 | 152.5 | 782 | G263 | 4774 | 152.5 |
| 743 | G224 | 5632 | 262.5 | 783 | G264 | 4752 | 262.5 |
| 744 | G225 | 5610 | 152.5 | 784 | G265 | 4730 | 152.5 |
| 745 | G226 | 5588 | 262.5 | 785 | G266 | 4708 | 262.5 |
| 746 | G227 | 5566 | 152.5 | 786 | G267 | 4686 | 152.5 |
| 747 | G228 | 5544 | 262.5 | 787 | G268 | 4664 | 262.5 |
| 748 | G229 | 5522 | 152.5 | 788 | G269 | 4642 | 152.5 |
| 749 | G230 | 5500 | 262.5 | 789 | G270 | 4620 | 262.5 |
| 750 | G231 | 5478 | 152.5 | 790 | G271 | 4598 | 152.5 |
| 751 | G232 | 5456 | 262.5 | 791 | G272 | 4576 | 262.5 |
| 752 | G233 | 5434 | 152.5 | 792 | G273 | 4554 | 152.5 |
| 753 | G234 | 5412 | 262.5 | 793 | G274 | 4532 | 262.5 |
| 754 | G235 | 5390 | 152.5 | 794 | G275 | 4510 | 152.5 |
| 755 | G236 | 5368 | 262.5 | 795 | G276 | 4488 | 262.5 |
| 756 | G237 | 5346 | 152.5 | 796 | G277 | 4466 | 152.5 |
| 757 | G238 | 5324 | 262.5 | 797 | G278 | 4444 | 262.5 |
| 758 | G239 | 5302 | 152.5 | 798 | G279 | 4422 | 152.5 |
| 759 | G240 | 5280 | 262.5 | 799 | G280 | 4400 | 262.5 |
| 760 | G241 | 5258 | 152.5 | 800 | G281 | 4378 | 152.5 |

| Pad No. | Designation | X | Y | Pad No. | Designation | X | Y |
|---------|-------------|------|-------|---------|-------------|------|-------|
| 801 | G282 | 4356 | 262.5 | 841 | G322 | 3476 | 262.5 |
| 802 | G283 | 4334 | 152.5 | 842 | G323 | 3454 | 152.5 |
| 803 | G284 | 4312 | 262.5 | 843 | G324 | 3432 | 262.5 |
| 804 | G285 | 4290 | 152.5 | 844 | G325 | 3410 | 152.5 |
| 805 | G286 | 4268 | 262.5 | 845 | G326 | 3388 | 262.5 |
| 806 | G287 | 4246 | 152.5 | 846 | G327 | 3366 | 152.5 |
| 807 | G288 | 4224 | 262.5 | 847 | G328 | 3344 | 262.5 |
| 808 | G289 | 4202 | 152.5 | 848 | G329 | 3322 | 152.5 |
| 809 | G290 | 4180 | 262.5 | 849 | G330 | 3300 | 262.5 |
| 810 | G291 | 4158 | 152.5 | 850 | G331 | 3278 | 152.5 |
| 811 | G292 | 4136 | 262.5 | 851 | G332 | 3256 | 262.5 |
| 812 | G293 | 4114 | 152.5 | 852 | G333 | 3234 | 152.5 |
| 813 | G294 | 4092 | 262.5 | 853 | G334 | 3212 | 262.5 |
| 814 | G295 | 4070 | 152.5 | 854 | G335 | 3190 | 152.5 |
| 815 | G296 | 4048 | 262.5 | 855 | G336 | 3168 | 262.5 |
| 816 | G297 | 4026 | 152.5 | 856 | G337 | 3146 | 152.5 |
| 817 | G298 | 4004 | 262.5 | 857 | G338 | 3124 | 262.5 |
| 818 | G299 | 3982 | 152.5 | 858 | G339 | 3102 | 152.5 |
| 819 | G300 | 3960 | 262.5 | 859 | G340 | 3080 | 262.5 |
| 820 | G301 | 3938 | 152.5 | 860 | G341 | 3058 | 152.5 |
| 821 | G302 | 3916 | 262.5 | 861 | G342 | 3036 | 262.5 |
| 822 | G303 | 3894 | 152.5 | 862 | G343 | 3014 | 152.5 |
| 823 | G304 | 3872 | 262.5 | 863 | G344 | 2992 | 262.5 |
| 824 | G305 | 3850 | 152.5 | 864 | G345 | 2970 | 152.5 |
| 825 | G306 | 3828 | 262.5 | 865 | G346 | 2948 | 262.5 |
| 826 | G307 | 3806 | 152.5 | 866 | G347 | 2926 | 152.5 |
| 827 | G308 | 3784 | 262.5 | 867 | G348 | 2904 | 262.5 |
| 828 | G309 | 3762 | 152.5 | 868 | G349 | 2882 | 152.5 |
| 829 | G310 | 3740 | 262.5 | 869 | G350 | 2860 | 262.5 |
| 830 | G311 | 3718 | 152.5 | 870 | G351 | 2838 | 152.5 |
| 831 | G312 | 3696 | 262.5 | 871 | G352 | 2816 | 262.5 |
| 832 | G313 | 3674 | 152.5 | 872 | G353 | 2794 | 152.5 |
| 833 | G314 | 3652 | 262.5 | 873 | G354 | 2772 | 262.5 |
| 834 | G315 | 3630 | 152.5 | 874 | G355 | 2750 | 152.5 |
| 835 | G316 | 3608 | 262.5 | 875 | G356 | 2728 | 262.5 |
| 836 | G317 | 3586 | 152.5 | 876 | G357 | 2706 | 152.5 |
| 837 | G318 | 3564 | 262.5 | 877 | G358 | 2684 | 262.5 |
| 838 | G319 | 3542 | 152.5 | 878 | G359 | 2662 | 152.5 |
| 839 | G320 | 3520 | 262.5 | 879 | G360 | 2640 | 262.5 |
| 840 | G321 | 3498 | 152.5 | 880 | G361 | 2618 | 152.5 |

| Pad No. | Designation | X | Y | Pad No. | Designation | X | Y |
|---------|-------------|------|-------|---------|-------------|------|-------|
| 881 | G362 | 2596 | 262.5 | 921 | G402 | 1716 | 262.5 |
| 882 | G363 | 2574 | 152.5 | 922 | G403 | 1694 | 152.5 |
| 883 | G364 | 2552 | 262.5 | 923 | G404 | 1672 | 262.5 |
| 884 | G365 | 2530 | 152.5 | 924 | G405 | 1650 | 152.5 |
| 885 | G366 | 2508 | 262.5 | 925 | G406 | 1628 | 262.5 |
| 886 | G367 | 2486 | 152.5 | 926 | G407 | 1606 | 152.5 |
| 887 | G368 | 2464 | 262.5 | 927 | G408 | 1584 | 262.5 |
| 888 | G369 | 2442 | 152.5 | 928 | G409 | 1562 | 152.5 |
| 889 | G370 | 2420 | 262.5 | 929 | G410 | 1540 | 262.5 |
| 890 | G371 | 2398 | 152.5 | 930 | G411 | 1518 | 152.5 |
| 891 | G372 | 2376 | 262.5 | 931 | G412 | 1496 | 262.5 |
| 892 | G373 | 2354 | 152.5 | 932 | G413 | 1474 | 152.5 |
| 893 | G374 | 2332 | 262.5 | 933 | G414 | 1452 | 262.5 |
| 894 | G375 | 2310 | 152.5 | 934 | G415 | 1430 | 152.5 |
| 895 | G376 | 2288 | 262.5 | 935 | G416 | 1408 | 262.5 |
| 896 | G377 | 2266 | 152.5 | 936 | G417 | 1386 | 152.5 |
| 897 | G378 | 2244 | 262.5 | 937 | G418 | 1364 | 262.5 |
| 898 | G379 | 2222 | 152.5 | 938 | G419 | 1342 | 152.5 |
| 899 | G380 | 2200 | 262.5 | 939 | G420 | 1320 | 262.5 |
| 900 | G381 | 2178 | 152.5 | 940 | G421 | 1298 | 152.5 |
| 901 | G382 | 2156 | 262.5 | 941 | G422 | 1276 | 262.5 |
| 902 | G383 | 2134 | 152.5 | 942 | G423 | 1254 | 152.5 |
| 903 | G384 | 2112 | 262.5 | 943 | G424 | 1232 | 262.5 |
| 904 | G385 | 2090 | 152.5 | 944 | G425 | 1210 | 152.5 |
| 905 | G386 | 2068 | 262.5 | 945 | G426 | 1188 | 262.5 |
| 906 | G387 | 2046 | 152.5 | 946 | G427 | 1166 | 152.5 |
| 907 | G388 | 2024 | 262.5 | 947 | G428 | 1144 | 262.5 |
| 908 | G389 | 2002 | 152.5 | 948 | G429 | 1122 | 152.5 |
| 909 | G390 | 1980 | 262.5 | 949 | G430 | 1100 | 262.5 |
| 910 | G391 | 1958 | 152.5 | 950 | G431 | 1078 | 152.5 |
| 911 | G392 | 1936 | 262.5 | 951 | G432 | 1056 | 262.5 |
| 912 | G393 | 1914 | 152.5 | 952 | G433 | 1034 | 152.5 |
| 913 | G394 | 1892 | 262.5 | 953 | G434 | 1012 | 262.5 |
| 914 | G395 | 1870 | 152.5 | 954 | G435 | 990 | 152.5 |
| 915 | G396 | 1848 | 262.5 | 955 | G436 | 968 | 262.5 |
| 916 | G397 | 1826 | 152.5 | 956 | G437 | 946 | 152.5 |
| 917 | G398 | 1804 | 262.5 | 957 | G438 | 924 | 262.5 |
| 918 | G399 | 1782 | 152.5 | 958 | G439 | 902 | 152.5 |
| 919 | G400 | 1760 | 262.5 | 959 | G440 | 880 | 262.5 |
| 920 | G401 | 1738 | 152.5 | 960 | G441 | 858 | 152.5 |

| Pad No. | Designation | X | Y | Pad No. | Designation | X | Y |
|---------|-------------|------|-------|---------|-------------|------|-------|
| 961 | G442 | 836 | 262.5 | 1001 | G482 | -44 | 262.5 |
| 962 | G443 | 814 | 152.5 | 1002 | G483 | -66 | 152.5 |
| 963 | G444 | 792 | 262.5 | 1003 | G484 | -88 | 262.5 |
| 964 | G445 | 770 | 152.5 | 1004 | G485 | -110 | 152.5 |
| 965 | G446 | 748 | 262.5 | 1005 | G486 | -132 | 262.5 |
| 966 | G447 | 726 | 152.5 | 1006 | G487 | -154 | 152.5 |
| 967 | G448 | 704 | 262.5 | 1007 | G488 | -176 | 262.5 |
| 968 | G449 | 682 | 152.5 | 1008 | G489 | -198 | 152.5 |
| 969 | G450 | 660 | 262.5 | 1009 | G490 | -220 | 262.5 |
| 970 | G451 | 638 | 152.5 | 1010 | G491 | -242 | 152.5 |
| 971 | G452 | 616 | 262.5 | 1011 | G492 | -264 | 262.5 |
| 972 | G453 | 594 | 152.5 | 1012 | G493 | -286 | 152.5 |
| 973 | G454 | 572 | 262.5 | 1013 | G494 | -308 | 262.5 |
| 974 | G455 | 550 | 152.5 | 1014 | G495 | -330 | 152.5 |
| 975 | G456 | 528 | 262.5 | 1015 | G496 | -352 | 262.5 |
| 976 | G457 | 506 | 152.5 | 1016 | G497 | -374 | 152.5 |
| 977 | G458 | 484 | 262.5 | 1017 | G498 | -396 | 262.5 |
| 978 | G459 | 462 | 152.5 | 1018 | G499 | -418 | 152.5 |
| 979 | G460 | 440 | 262.5 | 1019 | G500 | -440 | 262.5 |
| 980 | G461 | 418 | 152.5 | 1020 | G501 | -462 | 152.5 |
| 981 | G462 | 396 | 262.5 | 1021 | G502 | -484 | 262.5 |
| 982 | G463 | 374 | 152.5 | 1022 | G503 | -506 | 152.5 |
| 983 | G464 | 352 | 262.5 | 1023 | G504 | -528 | 262.5 |
| 984 | G465 | 330 | 152.5 | 1024 | G505 | -550 | 152.5 |
| 985 | G466 | 308 | 262.5 | 1025 | G506 | -572 | 262.5 |
| 986 | G467 | 286 | 152.5 | 1026 | G507 | -594 | 152.5 |
| 987 | G468 | 264 | 262.5 | 1027 | G508 | -616 | 262.5 |
| 988 | G469 | 242 | 152.5 | 1028 | G509 | -638 | 152.5 |
| 989 | G470 | 220 | 262.5 | 1029 | G510 | -660 | 262.5 |
| 990 | G471 | 198 | 152.5 | 1030 | G511 | -682 | 152.5 |
| 991 | G472 | 176 | 262.5 | 1031 | G512 | -704 | 262.5 |
| 992 | G473 | 154 | 152.5 | 1032 | G513 | -726 | 152.5 |
| 993 | G474 | 132 | 262.5 | 1033 | G514 | -748 | 262.5 |
| 994 | G475 | 110 | 152.5 | 1034 | G515 | -770 | 152.5 |
| 995 | G476 | 88 | 262.5 | 1035 | G516 | -792 | 262.5 |
| 996 | G477 | 66 | 152.5 | 1036 | G517 | -814 | 152.5 |
| 997 | G478 | 44 | 262.5 | 1037 | G518 | -836 | 262.5 |
| 998 | G479 | 22 | 152.5 | 1038 | G519 | -858 | 152.5 |
| 999 | G480 | 0 | 262.5 | 1039 | G520 | -880 | 262.5 |
| 1000 | G481 | -22 | 152.5 | 1040 | G521 | -902 | 152.5 |

| Pad No. | Designation | X | Y | Pad No. | Designation | X | Y |
|---|---|---|---|---|---|---|---|
| 1041 | G522 | -924 | 262.5 | 1081 | G562 | -1804 | 262.5 |
| 1042 | G523 | -946 | 152.5 | 1082 | G563 | -1826 | 152.5 |
| 1043 | G524 | -968 | 262.5 | 1083 | G564 | -1848 | 262.5 |
| 1044 | G525 | -990 | 152.5 | 1084 | G565 | -1870 | 152.5 |
| 1045 | G526 | -1012 | 262.5 | 1085 | G566 | -1892 | 262.5 |
| 1046 | G527 | -1034 | 152.5 | 1086 | G567 | -1914 | 152.5 |
| 1047 | G528 | -1056 | 262.5 | 1087 | G568 | -1936 | 262.5 |
| 1048 | G529 | -1078 | 152.5 | 1088 | G569 | -1958 | 152.5 |
| 1049 | G530 | -1100 | 262.5 | 1089 | G570 | -1980 | 262.5 |
| 1050 | G531 | -1122 | 152.5 | 1090 | G571 | -2002 | 152.5 |
| 1051 | G532 | -1144 | 262.5 | 1091 | G572 | -2024 | 262.5 |
| 1052 | G533 | -1166 | 152.5 | 1092 | G573 | -2046 | 152.5 |
| 1053 | G534 | -1188 | 262.5 | 1093 | G574 | -2068 | 262.5 |
| 1054 | G535 | -1210 | 152.5 | 1094 | G575 | -2090 | 152.5 |
| 1055 | G536 | -1232 | 262.5 | 1095 | G576 | -2112 | 262.5 |
| 1056 | G537 | -1254 | 152.5 | 1096 | G577 | -2134 | 152.5 |
| 1057 | G538 | -1276 | 262.5 | 1097 | G578 | -2156 | 262.5 |
| 1058 | G539 | -1298 | 152.5 | 1098 | G579 | -2178 | 152.5 |
| 1059 | G540 | -1320 | 262.5 | 1099 | G580 | -2200 | 262.5 |
| 1060 | G541 | -1342 | 152.5 | 1100 | G581 | -2222 | 152.5 |
| 1061 | G542 | -1364 | 262.5 | 1101 | G582 | -2244 | 262.5 |
| 1062 | G543 | -1386 | 152.5 | 1102 | G583 | -2266 | 152.5 |
| 1063 | G544 | -1408 | 262.5 | 1103 | G584 | -2288 | 262.5 |
| 1064 | G545 | -1430 | 152.5 | 1104 | G585 | -2310 | 152.5 |
| 1065 | G546 | -1452 | 262.5 | 1105 | G586 | -2332 | 262.5 |
| 1066 | G547 | -1474 | 152.5 | 1106 | G587 | -2354 | 152.5 |
| 1067 | G548 | -1496 | 262.5 | 1107 | G588 | -2376 | 262.5 |
| 1068 | G549 | -1518 | 152.5 | 1108 | G589 | -2398 | 152.5 |
| 1069 | G550 | -1540 | 262.5 | 1109 | G590 | -2420 | 262.5 |
| 1070 | G551 | -1562 | 152.5 | 1110 | G591 | -2442 | 152.5 |
| 1071 | G552 | -1584 | 262.5 | 1111 | G592 | -2464 | 262.5 |
| 1072 | G553 | -1606 | 152.5 | 1112 | G593 | -2486 | 152.5 |
| 1073 | G554 | -1628 | 262.5 | 1113 | G594 | -2508 | 262.5 |
| 1074 | G555 | -1650 | 152.5 | 1114 | G595 | -2530 | 152.5 |
| 1075 | G556 | -1672 | 262.5 | 1115 | G596 | -2552 | 262.5 |
| 1076 | G557 | -1694 | 152.5 | 1116 | G597 | -2574 | 152.5 |
| 1077 | G558 | -1716 | 262.5 | 1117 | G598 | -2596 | 262.5 |
| 1078 | G559 | -1738 | 152.5 | 1118 | G599 | -2618 | 152.5 |
| 1079 | G560 | -1760 | 262.5 | 1119 | G600 | -2640 | 262.5 |
| 1080 | G561 | -1782 | 152.5 | 1120 | G601 | -2662 | 152.5 |

| Pad No. | Designation | X | Y | Pad No. | Designation | X | Y |
|---------|-------------|------|-------|---------|-------------|-------|-------|
| 1121 | G602 | -2684 | 262.5 | 1161 | G642 | -3564 | 262.5 |
| 1122 | G603 | -2706 | 152.5 | 1162 | G643 | -3586 | 152.5 |
| 1123 | G604 | -2728 | 262.5 | 1163 | G644 | -3608 | 262.5 |
| 1124 | G605 | -2750 | 152.5 | 1164 | G645 | -3630 | 152.5 |
| 1125 | G606 | -2772 | 262.5 | 1165 | G646 | -3652 | 262.5 |
| 1126 | G607 | -2794 | 152.5 | 1166 | G647 | -3674 | 152.5 |
| 1127 | G608 | -2816 | 262.5 | 1167 | G648 | -3696 | 262.5 |
| 1128 | G609 | -2838 | 152.5 | 1168 | G649 | -3718 | 152.5 |
| 1129 | G610 | -2860 | 262.5 | 1169 | G650 | -3740 | 262.5 |
| 1130 | G611 | -2882 | 152.5 | 1170 | G651 | -3762 | 152.5 |
| 1131 | G612 | -2904 | 262.5 | 1171 | G652 | -3784 | 262.5 |
| 1132 | G613 | -2926 | 152.5 | 1172 | G653 | -3806 | 152.5 |
| 1133 | G614 | -2948 | 262.5 | 1173 | G654 | -3828 | 262.5 |
| 1134 | G615 | -2970 | 152.5 | 1174 | G655 | -3850 | 152.5 |
| 1135 | G616 | -2992 | 262.5 | 1175 | G656 | -3872 | 262.5 |
| 1136 | G617 | -3014 | 152.5 | 1176 | G657 | -3894 | 152.5 |
| 1137 | G618 | -3036 | 262.5 | 1177 | G658 | -3916 | 262.5 |
| 1138 | G619 | -3058 | 152.5 | 1178 | G659 | -3938 | 152.5 |
| 1139 | G620 | -3080 | 262.5 | 1179 | G660 | -3960 | 262.5 |
| 1140 | G621 | -3102 | 152.5 | 1180 | G661 | -3982 | 152.5 |
| 1141 | G622 | -3124 | 262.5 | 1181 | G662 | -4004 | 262.5 |
| 1142 | G623 | -3146 | 152.5 | 1182 | G663 | -4026 | 152.5 |
| 1143 | G624 | -3168 | 262.5 | 1183 | G664 | -4048 | 262.5 |
| 1144 | G625 | -3190 | 152.5 | 1184 | G665 | -4070 | 152.5 |
| 1145 | G626 | -3212 | 262.5 | 1185 | G666 | -4092 | 262.5 |
| 1146 | G627 | -3234 | 152.5 | 1186 | G667 | -4114 | 152.5 |
| 1147 | G628 | -3256 | 262.5 | 1187 | G668 | -4136 | 262.5 |
| 1148 | G629 | -3278 | 152.5 | 1188 | G669 | -4158 | 152.5 |
| 1149 | G630 | -3300 | 262.5 | 1189 | G670 | -4180 | 262.5 |
| 1150 | G631 | -3322 | 152.5 | 1190 | G671 | -4202 | 152.5 |
| 1151 | G632 | -3344 | 262.5 | 1191 | G672 | -4224 | 262.5 |
| 1152 | G633 | -3366 | 152.5 | 1192 | G673 | -4246 | 152.5 |
| 1153 | G634 | -3388 | 262.5 | 1193 | G674 | -4268 | 262.5 |
| 1154 | G635 | -3410 | 152.5 | 1194 | G675 | -4290 | 152.5 |
| 1155 | G636 | -3432 | 262.5 | 1195 | G676 | -4312 | 262.5 |
| 1156 | G637 | -3454 | 152.5 | 1196 | G677 | -4334 | 152.5 |
| 1157 | G638 | -3476 | 262.5 | 1197 | G678 | -4356 | 262.5 |
| 1158 | G639 | -3498 | 152.5 | 1198 | G679 | -4378 | 152.5 |
| 1159 | G640 | -3520 | 262.5 | 1199 | G680 | -4400 | 262.5 |
| 1160 | G641 | -3542 | 152.5 | 1200 | G681 | -4422 | 152.5 |

| Pad No. | Designation | X | Y | Pad No. | Designation | X | Y |
|---------|-------------|-------|-------|---------|-------------|-------|-------|
| 1201 | G682 | -4444 | 262.5 | 1241 | G722 | -5324 | 262.5 |
| 1202 | G683 | -4466 | 152.5 | 1242 | G723 | -5346 | 152.5 |
| 1203 | G684 | -4488 | 262.5 | 1243 | G724 | -5368 | 262.5 |
| 1204 | G685 | -4510 | 152.5 | 1244 | G725 | -5390 | 152.5 |
| 1205 | G686 | -4532 | 262.5 | 1245 | G726 | -5412 | 262.5 |
| 1206 | G687 | -4554 | 152.5 | 1246 | G727 | -5434 | 152.5 |
| 1207 | G688 | -4576 | 262.5 | 1247 | G728 | -5456 | 262.5 |
| 1208 | G689 | -4598 | 152.5 | 1248 | G729 | -5478 | 152.5 |
| 1209 | G690 | -4620 | 262.5 | 1249 | G730 | -5500 | 262.5 |
| 1210 | G691 | -4642 | 152.5 | 1250 | G731 | -5522 | 152.5 |
| 1211 | G692 | -4664 | 262.5 | 1251 | G732 | -5544 | 262.5 |
| 1212 | G693 | -4686 | 152.5 | 1252 | G733 | -5566 | 152.5 |
| 1213 | G694 | -4708 | 262.5 | 1253 | G734 | -5588 | 262.5 |
| 1214 | G695 | -4730 | 152.5 | 1254 | G735 | -5610 | 152.5 |
| 1215 | G696 | -4752 | 262.5 | 1255 | G736 | -5632 | 262.5 |
| 1216 | G697 | -4774 | 152.5 | 1256 | G737 | -5654 | 152.5 |
| 1217 | G698 | -4796 | 262.5 | 1257 | G738 | -5676 | 262.5 |
| 1218 | G699 | -4818 | 152.5 | 1258 | G739 | -5698 | 152.5 |
| 1219 | G700 | -4840 | 262.5 | 1259 | G740 | -5720 | 262.5 |
| 1220 | G701 | -4862 | 152.5 | 1260 | G741 | -5742 | 152.5 |
| 1221 | G702 | -4884 | 262.5 | 1261 | G742 | -5764 | 262.5 |
| 1222 | G703 | -4906 | 152.5 | 1262 | G743 | -5786 | 152.5 |
| 1223 | G704 | -4928 | 262.5 | 1263 | G744 | -5808 | 262.5 |
| 1224 | G705 | -4950 | 152.5 | 1264 | G745 | -5830 | 152.5 |
| 1225 | G706 | -4972 | 262.5 | 1265 | G746 | -5852 | 262.5 |
| 1226 | G707 | -4994 | 152.5 | 1266 | G747 | -5874 | 152.5 |
| 1227 | G708 | -5016 | 262.5 | 1267 | G748 | -5896 | 262.5 |
| 1228 | G709 | -5038 | 152.5 | 1268 | G749 | -5918 | 152.5 |
| 1229 | G710 | -5060 | 262.5 | 1269 | G750 | -5940 | 262.5 |
| 1230 | G711 | -5082 | 152.5 | 1270 | G751 | -5962 | 152.5 |
| 1231 | G712 | -5104 | 262.5 | 1271 | G752 | -5984 | 262.5 |
| 1232 | G713 | -5126 | 152.5 | 1272 | G753 | -6006 | 152.5 |
| 1233 | G714 | -5148 | 262.5 | 1273 | G754 | -6028 | 262.5 |
| 1234 | G715 | -5170 | 152.5 | 1274 | G755 | -6050 | 152.5 |
| 1235 | G716 | -5192 | 262.5 | 1275 | G756 | -6072 | 262.5 |
| 1236 | G717 | -5214 | 152.5 | 1276 | G757 | -6094 | 152.5 |
| 1237 | G718 | -5236 | 262.5 | 1277 | G758 | -6116 | 262.5 |
| 1238 | G719 | -5258 | 152.5 | 1278 | G759 | -6138 | 152.5 |
| 1239 | G720 | -5280 | 262.5 | 1279 | G760 | -6160 | 262.5 |
| 1240 | G721 | -5302 | 152.5 | 1280 | G761 | -6182 | 152.5 |

| Pad No. | Designation | X | Y | Pad No. | Designation | X | Y |
|---------|-------------|------|------|---------|-------------|------|------|
| 1281 | G762 | -6204 | 262.5 | 1321 | G802 | -7084 | 262.5 |
| 1282 | G763 | -6226 | 152.5 | 1322 | G803 | -7106 | 152.5 |
| 1283 | G764 | -6248 | 262.5 | 1323 | G804 | -7128 | 262.5 |
| 1284 | G765 | -6270 | 152.5 | 1324 | G805 | -7150 | 152.5 |
| 1285 | G766 | -6292 | 262.5 | 1325 | G806 | -7172 | 262.5 |
| 1286 | G767 | -6314 | 152.5 | 1326 | G807 | -7194 | 152.5 |
| 1287 | G768 | -6336 | 262.5 | 1327 | G808 | -7216 | 262.5 |
| 1288 | G769 | -6358 | 152.5 | 1328 | G809 | -7238 | 152.5 |
| 1289 | G770 | -6380 | 262.5 | 1329 | G810 | -7260 | 262.5 |
| 1290 | G771 | -6402 | 152.5 | 1330 | G811 | -7282 | 152.5 |
| 1291 | G772 | -6424 | 262.5 | 1331 | G812 | -7304 | 262.5 |
| 1292 | G773 | -6446 | 152.5 | 1332 | G813 | -7326 | 152.5 |
| 1293 | G774 | -6468 | 262.5 | 1333 | G814 | -7348 | 262.5 |
| 1294 | G775 | -6490 | 152.5 | 1334 | G815 | -7370 | 152.5 |
| 1295 | G776 | -6512 | 262.5 | 1335 | G816 | -7392 | 262.5 |
| 1296 | G777 | -6534 | 152.5 | 1336 | G817 | -7414 | 152.5 |
| 1297 | G778 | -6556 | 262.5 | 1337 | G818 | -7436 | 262.5 |
| 1298 | G779 | -6578 | 152.5 | 1338 | G819 | -7458 | 152.5 |
| 1299 | G780 | -6600 | 262.5 | 1339 | G820 | -7480 | 262.5 |
| 1300 | G781 | -6622 | 152.5 | 1340 | G821 | -7502 | 152.5 |
| 1301 | G782 | -6644 | 262.5 | 1341 | G822 | -7524 | 262.5 |
| 1302 | G783 | -6666 | 152.5 | 1342 | G823 | -7546 | 152.5 |
| 1303 | G784 | -6688 | 262.5 | 1343 | G824 | -7568 | 262.5 |
| 1304 | G785 | -6710 | 152.5 | 1344 | G825 | -7590 | 152.5 |
| 1305 | G786 | -6732 | 262.5 | 1345 | G826 | -7612 | 262.5 |
| 1306 | G787 | -6754 | 152.5 | 1346 | G827 | -7634 | 152.5 |
| 1307 | G788 | -6776 | 262.5 | 1347 | G828 | -7656 | 262.5 |
| 1308 | G789 | -6798 | 152.5 | 1348 | G829 | -7678 | 152.5 |
| 1309 | G790 | -6820 | 262.5 | 1349 | G830 | -7700 | 262.5 |
| 1310 | G791 | -6842 | 152.5 | 1350 | G831 | -7722 | 152.5 |
| 1311 | G792 | -6864 | 262.5 | 1351 | G832 | -7744 | 262.5 |
| 1312 | G793 | -6886 | 152.5 | 1352 | G833 | -7766 | 152.5 |
| 1313 | G794 | -6908 | 262.5 | 1353 | G834 | -7788 | 262.5 |
| 1314 | G795 | -6930 | 152.5 | 1354 | G835 | -7810 | 152.5 |
| 1315 | G796 | -6952 | 262.5 | 1355 | G836 | -7832 | 262.5 |
| 1316 | G797 | -6974 | 152.5 | 1356 | G837 | -7854 | 152.5 |
| 1317 | G798 | -6996 | 262.5 | 1357 | G838 | -7876 | 262.5 |
| 1318 | G799 | -7018 | 152.5 | 1358 | G839 | -7898 | 152.5 |
| 1319 | G800 | -7040 | 262.5 | 1359 | G840 | -7920 | 262.5 |
| 1320 | G801 | -7062 | 152.5 | 1360 | G841 | -7942 | 152.5 |

| Pad No. | Designation | X | Y | Pad No. | Designation | X | Y |
|---------|-------------|------|-------|---------|-------------|------|-------|
| 1361 | G842 | -7964 | 262.5 | 1401 | G882 | -8844 | 262.5 |
| 1362 | G843 | -7986 | 152.5 | 1402 | G883 | -8866 | 152.5 |
| 1363 | G844 | -8008 | 262.5 | 1403 | G884 | -8888 | 262.5 |
| 1364 | G845 | -8030 | 152.5 | 1404 | G885 | -8910 | 152.5 |
| 1365 | G846 | -8052 | 262.5 | 1405 | G886 | -8932 | 262.5 |
| 1366 | G847 | -8074 | 152.5 | 1406 | G887 | -8954 | 152.5 |
| 1367 | G848 | -8096 | 262.5 | 1407 | G888 | -8976 | 262.5 |
| 1368 | G849 | -8118 | 152.5 | 1408 | G889 | -8998 | 152.5 |
| 1369 | G850 | -8140 | 262.5 | 1409 | G890 | -9020 | 262.5 |
| 1370 | G851 | -8162 | 152.5 | 1410 | G891 | -9042 | 152.5 |
| 1371 | G852 | -8184 | 262.5 | 1411 | G892 | -9064 | 262.5 |
| 1372 | G853 | -8206 | 152.5 | 1412 | G893 | -9086 | 152.5 |
| 1373 | G854 | -8228 | 262.5 | 1413 | G894 | -9108 | 262.5 |
| 1374 | G855 | -8250 | 152.5 | 1414 | G895 | -9130 | 152.5 |
| 1375 | G856 | -8272 | 262.5 | 1415 | G896 | -9152 | 262.5 |
| 1376 | G857 | -8294 | 152.5 | 1416 | G897 | -9174 | 152.5 |
| 1377 | G858 | -8316 | 262.5 | 1417 | G898 | -9196 | 262.5 |
| 1378 | G859 | -8338 | 152.5 | 1418 | G899 | -9218 | 152.5 |
| 1379 | G860 | -8360 | 262.5 | 1419 | G900 | -9240 | 262.5 |
| 1380 | G861 | -8382 | 152.5 | 1420 | G901 | -9262 | 152.5 |
| 1381 | G862 | -8404 | 262.5 | 1421 | G902 | -9284 | 262.5 |
| 1382 | G863 | -8426 | 152.5 | 1422 | G903 | -9306 | 152.5 |
| 1383 | G864 | -8448 | 262.5 | 1423 | G904 | -9328 | 262.5 |
| 1384 | G865 | -8470 | 152.5 | 1424 | G905 | -9350 | 152.5 |
| 1385 | G866 | -8492 | 262.5 | 1425 | G906 | -9372 | 262.5 |
| 1386 | G867 | -8514 | 152.5 | 1426 | G907 | -9394 | 152.5 |
| 1387 | G868 | -8536 | 262.5 | 1427 | G908 | -9416 | 262.5 |
| 1388 | G869 | -8558 | 152.5 | 1428 | G909 | -9438 | 152.5 |
| 1389 | G870 | -8580 | 262.5 | 1429 | G910 | -9460 | 262.5 |
| 1390 | G871 | -8602 | 152.5 | 1430 | G911 | -9482 | 152.5 |
| 1391 | G872 | -8624 | 262.5 | 1431 | G912 | -9504 | 262.5 |
| 1392 | G873 | -8646 | 152.5 | 1432 | G913 | -9526 | 152.5 |
| 1393 | G874 | -8668 | 262.5 | 1433 | G914 | -9548 | 262.5 |
| 1394 | G875 | -8690 | 152.5 | 1434 | G915 | -9570 | 152.5 |
| 1395 | G876 | -8712 | 262.5 | 1435 | G916 | -9592 | 262.5 |
| 1396 | G877 | -8734 | 152.5 | 1436 | G917 | -9614 | 152.5 |
| 1397 | G878 | -8756 | 262.5 | 1437 | G918 | -9636 | 262.5 |
| 1398 | G879 | -8778 | 152.5 | 1438 | G919 | -9658 | 152.5 |
| 1399 | G880 | -8800 | 262.5 | 1439 | G920 | -9680 | 262.5 |
| 1400 | G881 | -8822 | 152.5 | 1440 | G921 | -9702 | 152.5 |

| Pad No. | Designation | X | Y | Pad No. | Designation | X | Y |
|---------|-------------|--------|-------|---------|-------------|---------|--------|
| 1441 | G922 | -9724 | 262.5 | 1481 | DUMMY485 | -10604 | 262.5 |
| 1442 | G923 | -9746 | 152.5 | 1482 | SELL | -10842.5 | 285 |
| 1443 | G924 | -9768 | 262.5 | 1483 | SELL | -10917.5 | 285 |
| 1444 | G925 | -9790 | 152.5 | 1484 | OEL | -11002.5 | 285 |
| 1445 | G926 | -9812 | 262.5 | 1485 | OEL | -11077.5 | 285 |
| 1446 | G927 | -9834 | 152.5 | 1486 | OEL | -11162.5 | 285 |
| 1447 | G928 | -9856 | 262.5 | 1487 | OEL | -11237.5 | 285 |
| 1448 | G929 | -9878 | 152.5 | 1488 | U_DL | -11237.5 | 220.5 |
| 1449 | G930 | -9900 | 262.5 | 1489 | U_DL | -11162.5 | 220.5 |
| 1450 | G931 | -9922 | 152.5 | 1490 | CLKL | -11237.5 | 157.5 |
| 1451 | G932 | -9944 | 262.5 | 1491 | CLKL | -11162.5 | 157.5 |
| 1452 | G933 | -9966 | 152.5 | 1492 | PATHL | -11237.5 | 94.5 |
| 1453 | G934 | -9988 | 262.5 | 1493 | PATHL | -11162.5 | 94.5 |
| 1454 | G935 | -10010 | 152.5 | 1494 | STVU | -11237.5 | 31.5 |
| 1455 | G936 | -10032 | 262.5 | 1495 | STVU | -11162.5 | 31.5 |
| 1456 | G937 | -10054 | 152.5 | 1496 | VGGL | -11237.5 | -31.5 |
| 1457 | G938 | -10076 | 262.5 | 1497 | VGGL | -11162.5 | -31.5 |
| 1458 | G939 | -10098 | 152.5 | 1498 | VCCL | -11237.5 | -94.5 |
| 1459 | G940 | -10120 | 262.5 | 1499 | VCCL | -11162.5 | -94.5 |
| 1460 | G941 | -10142 | 152.5 | 1500 | VEEL | -11237.5 | -157.5 |
| 1461 | G942 | -10164 | 262.5 | 1501 | VEEL | -11162.5 | -157.5 |
| 1462 | G943 | -10186 | 152.5 | 1502 | GNDL | -11237.5 | -220.5 |
| 1463 | G944 | -10208 | 262.5 | 1503 | GNDL | -11162.5 | -220.5 |
| 1464 | G945 | -10230 | 152.5 | 1504 | AL_MARK_L | -10845 | 150 |
| 1465 | G946 | -10252 | 262.5 | 1505 | AL_MARK_R | 10845 | 150 |
| 1466 | G947 | -10274 | 152.5 | | | | |
| 1467 | G948 | -10296 | 262.5 | | | | |
| 1468 | G949 | -10318 | 152.5 | | | | |
| 1469 | G950 | -10340 | 262.5 | | | | |
| 1470 | G951 | -10362 | 152.5 | | | | |
| 1471 | G952 | -10384 | 262.5 | | | | |
| 1472 | G953 | -10406 | 152.5 | | | | |
| 1473 | G954 | -10428 | 262.5 | | | | |
| 1474 | G955 | -10450 | 152.5 | | | | |
| 1475 | G956 | -10472 | 262.5 | | | | |
| 1476 | G957 | -10494 | 152.5 | | | | |
| 1477 | G958 | -10516 | 262.5 | | | | |
| 1478 | G959 | -10538 | 152.5 | | | | |
| 1479 | G960 | -10560 | 262.5 | | | | |
| 1480 | G961 | -10582 | 152.5 | | | | |