# EK79713CA

*Rev. 2.1*

DATA SHEET

## 1200-Output TFT LCD Source Driver with TCON

*fitipower integrated technology Inc.*

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# 1200-Output TFT LCD Source Driver with TCON

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## 1. GENERAL DESCRIPTION

EK79713 is a highly integrated 1200 channel source driver with TTL interface Timing Controller for color TFT-LCD panels. EK79713CB is special designed for dual-gate architecture TFT panel. This chip is dedicated for the display resolution of: 800*480 and 800*600 application.

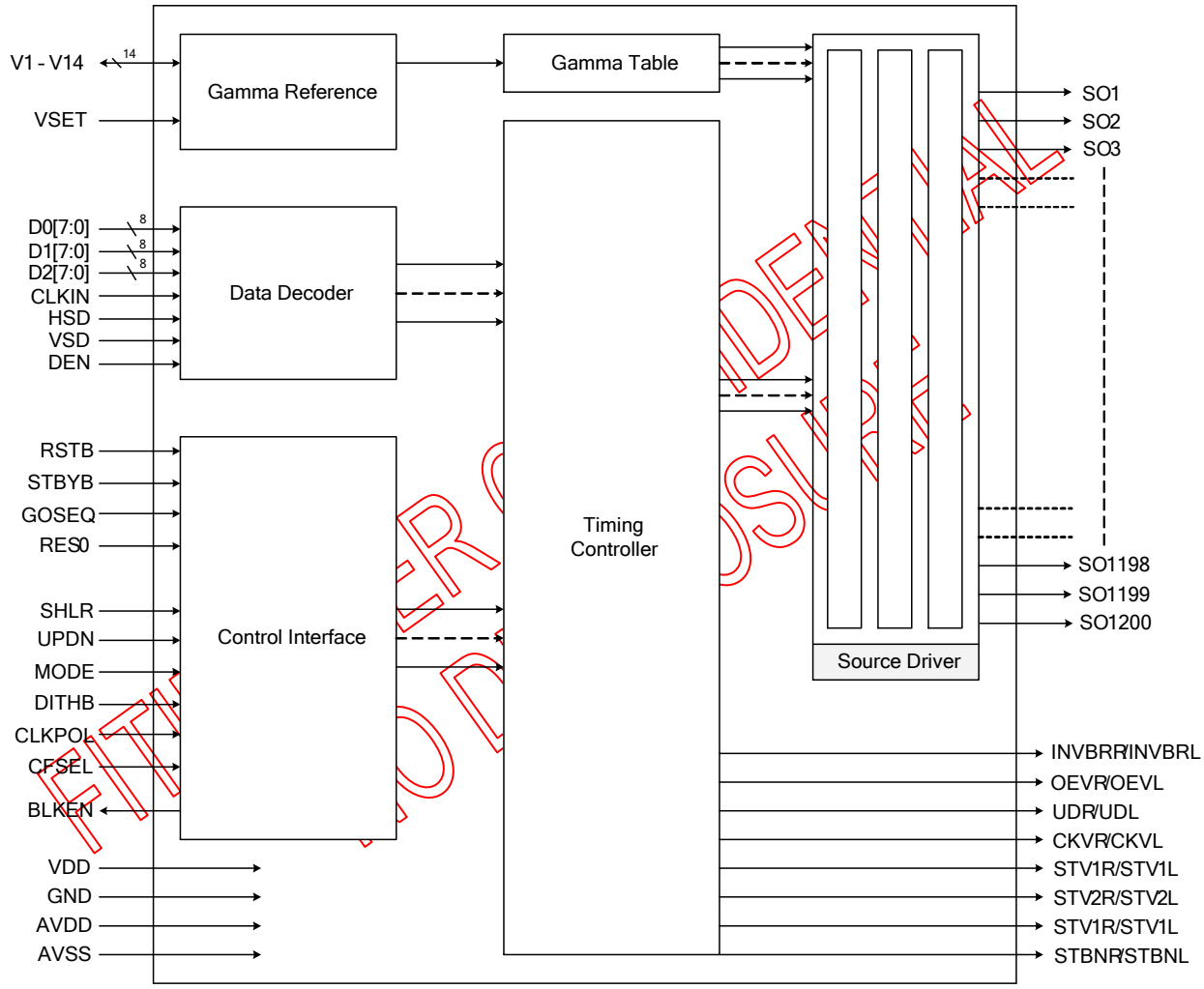
EK79713CB input timing support TTL digital 24bit parallel RGB data format, and source output support 8-bit resolution 256 gray scales with dithering feature enabled. Operating parameters can be set via pin control for all control features. Special circuit architecture is designed for lower power dissipation.

EK79713CB can be configured as dual-gate operation mode for reducing FPC amount and save the cost. With wide range of supply voltages and many pin control features make this chip more suitable for various applications.

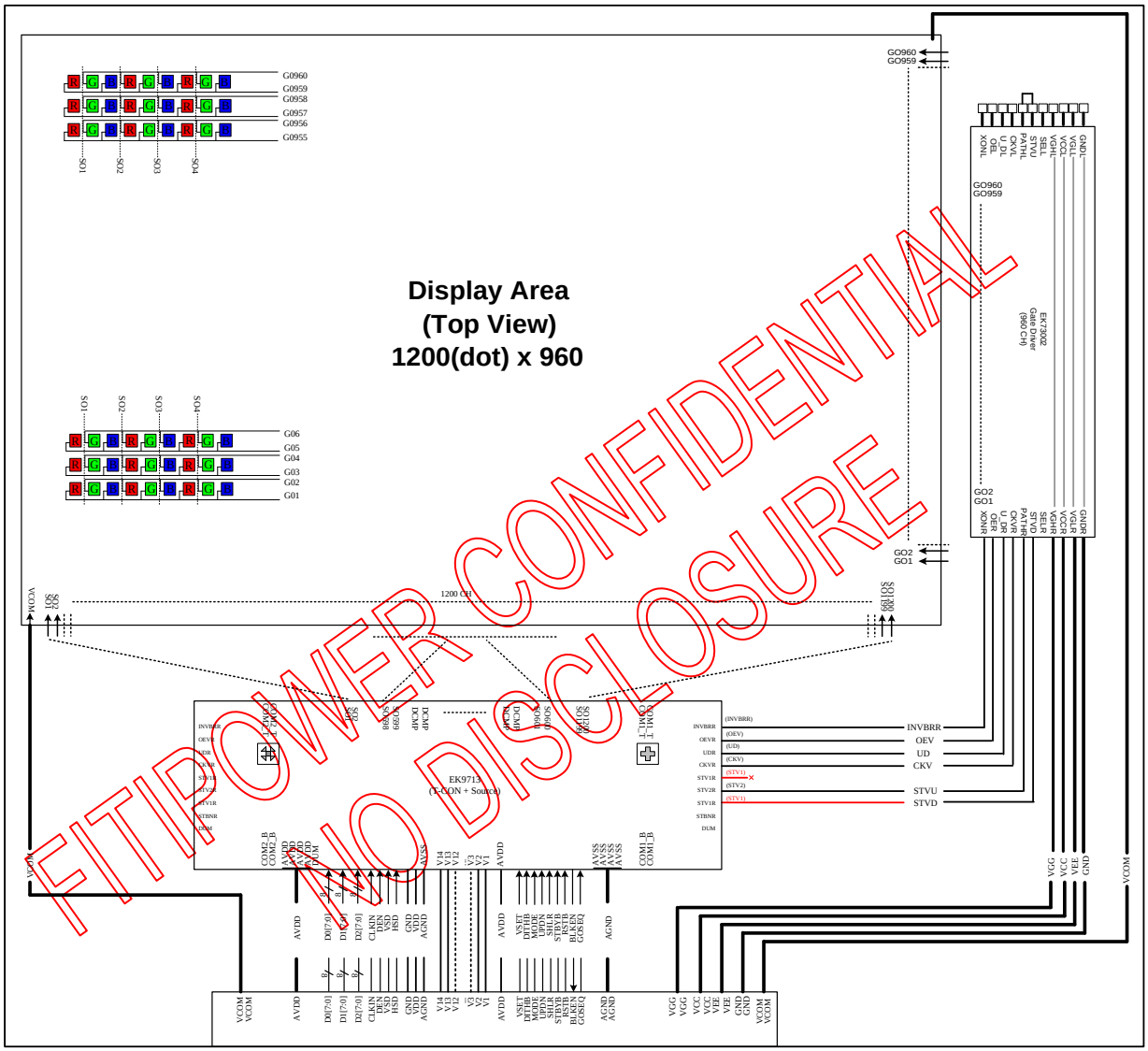
## 2. FEATURES

Special design for small-sized color TFT LCD source drivers with timing controller
Integrated 1200 channel source driver
Support dual-gate operation mode
Support display resolutions : 800(RGB)x480 ~ 800(RGB)x600
Support TTL 24-bit parallel (RGB) input timing
Source output with 8-bit resolution 256 gray scale (2-bit dithering)
Support Delta or Stripe color filter configuration
Support stand-by mode for low power consumption
Pin controlled UP/DOWN, LEFT/RIGHT, HV/DE mode select function
Embedded Gamma Table for special custom request
Support external V1 ~ V14 pad for Gamma adjusting
Output dynamic range: 0.1 ~ AVDD-0.1V
Power for source driver voltage AVDD: 6.5V ~ 13.5V
Power for digital interface circuit VDD: 1.8 ~ 3.6V
Max. operating frequency: 50 MHz
COG package

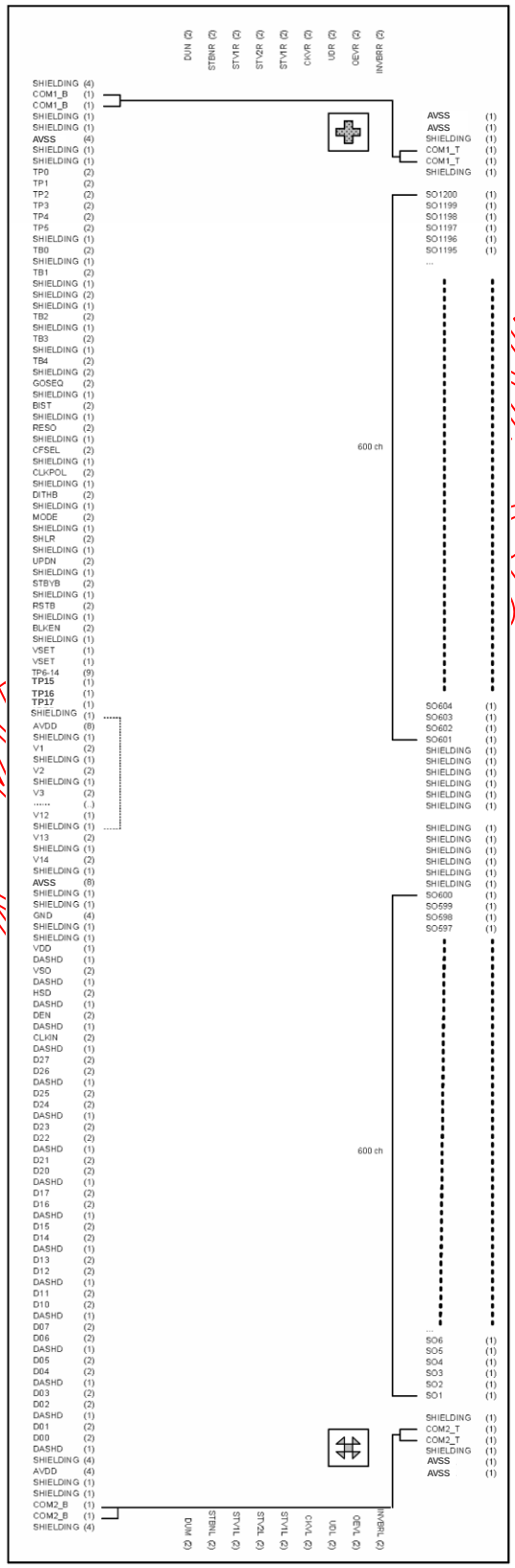
## 3. BLOCK DIAGRAM




Block Diagram




Application Block Diagram – Dual Gate Application

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Pad Sequence (Bump Side)

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## 4. PIN DESCRIPTION

Pin Description

| Pin Name | Pin Type | Description |
|---|---|---|
| D07~D00<br>D17~D10<br>D27~D20 | Input | Parallel data Input. For TTL 24-bit parallel RGB image data input.<br>D[07:00] = R[7:0] data; D[17:10] = G[7:0] data; DIN[27:20] = B[7:0] data.<br>For 18bit RGB interface, connect two LSB bits of all the R/G/B data buses to GND. |
| CLKIN | Input | Clock for Input Data. Data latched at rising/falling edge of this signal.<br>Default falling edge. |
| HSD | Input | Horizontal Sync input. Negative polarity. Normally pull high. |
| VSD | Input | Vertical Sync input. Negative polarity. Normally pull high. |
| DEN | Input | Data Input Enable. Active High to enable the data input bus under “DE Mode”. Normally pull low. |
| MODE | Input | DE / SYNC mode select. Normally pull high<br>H: DE mode.<br>L: HSD/VSD mode. |
| RES0 | Input | Display resolution selection.<br>RES0 = “0”, for 800(RGB)*480 display resolution<br>RES0 = “1”, for 800(RGB)*600 display resolution |
| DITHB | Input | Dithering function enable control. Normally pull high<br>DITHB = “1”, Disable internal dithering function<br>DITHB = “0”, Enable internal dithering function |
| CLKPOL | Input | Input clock edge selection. Normally pull low<br>CLKPOL = “1”, Latch data at CLKIN rising edge.<br>CLKPOL = “0”, Latch data at CLKIN falling edge. (Default) |
| BLKEN | Output | Backlight enable control signal for external controller.<br>BLKEN = “1”, Logical control signal to turn on external backlight controller<br>BLKEN = “0”, Turn off external backlight controller<br>Note: Refer to the Power On/Off Sequence for the detail information. |
| CFSEL | Input | Color Filter type selection. Normally pull high<br>CFSEL = “1”, Stripe mode. (Default)<br>CFSEL = “0”, Delta mode |
| V1 ~ V14 | Bi-direction | When VSET=”0”, INTERNAL Gamma Table is used. V1~V14 pad are un-used.<br>When VSET=”1”. V1~V14 are the external gamma correction points. The voltage of these pins<br>must be:<br>AVSS<V14<V13<V12<V11<V10<V9<V8;V7<V6<V5<V4<V3<V2<V1<AVDD |
| VSET | Input | Gamma correction source select. Normally pull low.<br>VSET = ”0”, use internal Gamma Reference voltage (AVDD). (Default mode)<br>VSET = ”1”, use external Gamma Correction Input (V1~V14). |
| RSTB | Input | Global reset pin. Active Low to enter Reset State.<br>Suggest to connecting with an RC reset circuit for stability. Normally pull high. |
| STBYB | Input | Standby mode, Normally pull high.<br>STBYB = “1”, normal operation<br>STBYB = “0”, timing controller, source driver will turn off, all output are High-Z |

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| Pin Name | Pin Type | Description |
|---|---|---|
| SHLR | Input | Source Right or Left sequence control. Normally pull high.<br>SHLR = “L”, shift left: last data = S1←S2←S3.....←S1200 = first data.<br>SHLR = “H”, shift right: first data = S1→S→S3.....→S1200 = last data. |
| UPDN | Input | Gate Up or Down scan control. Normally pull low.<br>UPDN = “L”, STV2 output vertical start pulse and UD pin output logical “0” to Gate driver.<br>UPDN = “H”, STV1 output vertical start pulse and UD pin output logical “1” to Gate driver. |
| BIST | Input | Normal Operation/BIST pattern select. Normally pull low.<br>BIST = H : BIST(DCLK input is not needed)<br>BIST = L : Normal Operation |
| GOSEQ | Input | Gate on sequence. Normally pull low. Please refer to Note 1.<br>GOSEQ = H : INVBRR/INVBRL = L Gate on<br>G1→G2→G4→G3→G5→G6→G8→G7…….. (UPDN = “H”)<br>GOSEQ = L : INVBRR/INVBRL = H Gate on<br>G1→G2→G3→G4→G5→G6→G7→G8…….. (UPDN = “H”) |
| OEVR/OEVL | Output | Gate driver control signal. |
| UDR/UDL | Output | Gate driver control signal. |
| CKVR/CKVL | Output | Gate driver control signal. |
| STV1R/STV1L | Output | Gate driver control signal. |
| STV2R/STV2L | Output | Gate driver control signal. |
| STBNR/STBNL | Output | Gate driver control signal. |
| INVBRR/INVBRL | Output | Gate driver control signal (For special Gate on sequence). |
| AVDD | Power Input | Power supply for analog circuits |
| AVSS | Power Input | Ground pins for analog circuits |
| VDD/VDDD | Power Input | Power supply for digital circuits |
| GND/VSSD | Power Input | Ground pins for digital circuits |
| SO1~SO1200 | Output | Source Driver Output Signals.<br>All outputs will be of unknown values under stand-by mode. |
| ALIGN | Mark | For assembly alignment. |
| COM1_B<br>COM1_B | Shorted line | Internal link together between input side and output side. |
| COM1_T<br>COM2_T | Shorted line | Internal link together between input side and output side. |
| TP17~0<br>TB0~4 | Testing | Float these pins for normal operation. |
| SHIELDING | Shielding | IC Shielding pads.<br>Those pins are internally connected to the AVSS.<br>DO NOT connect to any WOA on the panel. |
| DASHD | Shielding | Data Bus Shielding pad.<br>Those pins are internally connected to the GND.<br>RECOMMAND to add shielding lines on the FPC to reduce EMI. |
| DUM | Dummy | Dummy pads.<br>Those pins are floating pads. |

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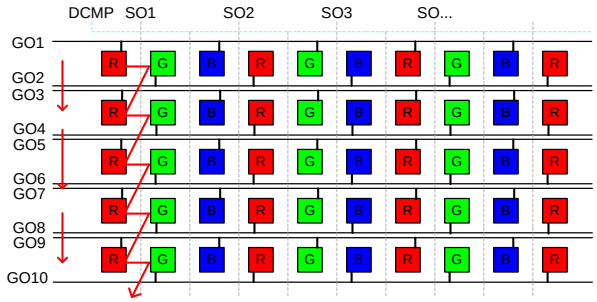
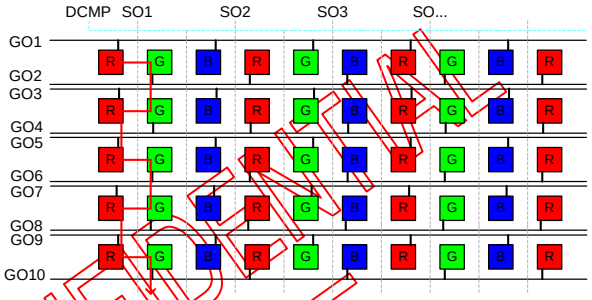
Note 1.

GOSEQ = L, INVBRRINVBRL= H,
UPDN = H
With traditional Gate driver.




GOSEQ = H, INVBRRINVBRL= L,
UPDN = H
With special design Gate driver




EK79713CB Pass Line Description:

| Pass Line No: | Pad Name | |
|---|---|---|
| 1 | COM1_B | COM1_T |
| 2 | COM2_B | COM2_T |

### 4.1. Value of wiring resistance to each pin

The recommended wiring resistance values are shown below. The wiring resistance values affect the current capacity of the power supply, so be sure to design using values that do not exceed those recommended.

| Pin Name | Wiring Resistance value(Ω) | Pin Name | Wiring resistance value (Ω) |
|---|---|---|---|
| AVDD | <5 | SHLR | <500 |
| AVSS | <5 | UPDN | <500 |
| VDD | <10 | BIST | <500 |
| GND | <10 | MODE | <500 |
| V1~V14 | <10 | RES0 | <500 |
| D00~D07 | <50 | CLKPOL | <500 |
| D10~D17 | <50 | BLKEN | <500 |
| D20~D27 | <50 | CFSEL | <500 |
| CLKIN | <50 | VSET | <500 |
| VSD | <50 | OEVx | <500 |
| HSD | <50 | UDx | <500 |
| DEN | <50 | CKVx | <500 |
| RSTB | <500 | STV1x | <500 |
| STBYB | <500 | STV2x | <500 |
| DITHB | <500 | STBNx | <500 |

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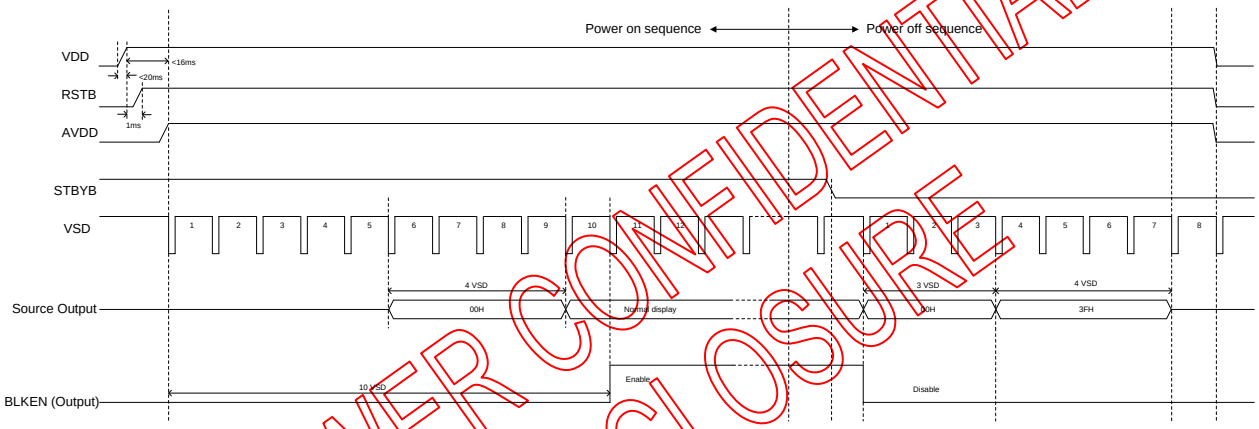
## 5. FUNCTION DESCRIPTION

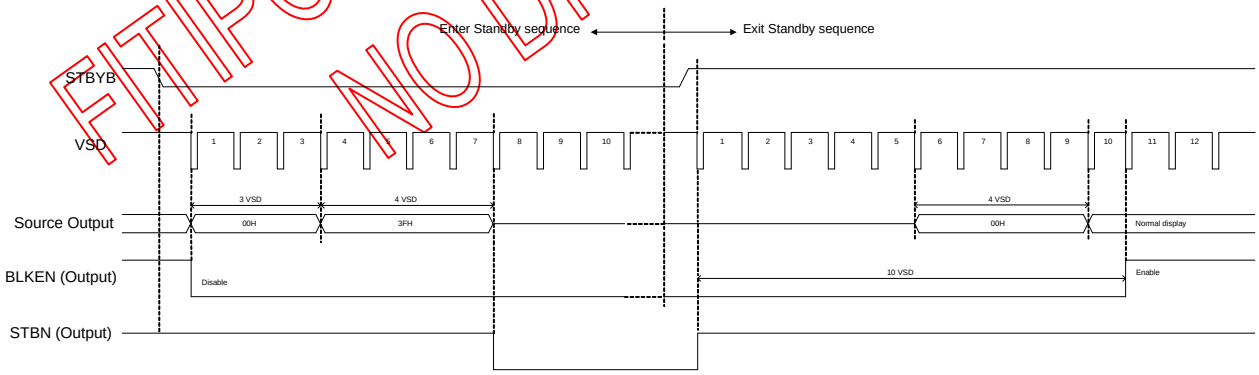
### 5.1. Power On/Off Sequence

In order to prevent IC from power on reset fail, the rising time (TPOR) of the digital power supply VDD should be maintained within the given specifications. Refer to “AC Characteristics” for more detail on timing.

This is another paragraph of sub-function description.




Power-On/Off Timing Sequence




Enter and Exit Standby Mode Sequence

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### 5.2. Input Data VS Output Channels

#### 5.2.1. CFSEL="1", Stripe Mode, UDPN=1

SHLR="1" , right shift

| Output | SO1 | SO2 | SO3 | --- | SO1198 | SO1199 | SO1200 |
|---|---|---|---|---|---|---|---|
| Order | First data | | | → | Last data | | |
| Odd Line/Gn | D07~D00 | D27~D20 | D17~D10 | --- | D07~D00 | D27~D20 | D17~D10 |
| Odd Line/Gn+1 | D17~D10 | D07~D00 | D27~D20 | --- | D17~D10 | D07~D00 | D27~D20 |
| Even Line/Gn | D07~D00 | D27~D20 | D17~D10 | --- | D07~D00 | D27~D20 | D17~D10 |
| Even Line/Gn+1 | D17~D10 | D07~D00 | D27~D20 | --- | D17~D10 | D07~D00 | D27~D20 |

SHLR="0", left shift

| Output | SO1 | SO2 | SO3 | --- | SO1198 | SO1199 | SO1200 |
|---|---|---|---|---|---|---|---|
| Order | Last data | | | ← | First data | | |
| Odd Line/Gn | D07~D00 | D27~D20 | D17~D10 | --- | D07~D00 | D27~D20 | D17~D10 |
| Odd Line/Gn+1 | D17~D10 | D07~D00 | D27~D20 | --- | D17~D10 | D07~D00 | D27~D20 |
| Even Line/Gn | D07~D00 | D27~D20 | D17~D10 | --- | D07~D00 | D27~D20 | D17~D10 |
| Even Line/Gn+1 | D17~D10 | D07~D00 | D27~D20 | --- | D17~D10 | D07~D00 | D27~D20 |

#### 5.2.2. CFSEL="0", Delta Mode, UDPN=1

SHLR="1" , right shift

| Output | SO1 | SO2 | SO3 | --- | SO1198 | SO1199 | SO1200 |
|---|---|---|---|---|---|---|---|
| Order | First data | | | → | Last data | | |
| Odd Line/Gn | D07~D00 | D27~D20 | D17~D10 | --- | D07~D00 | D27~D20 | D17~D10 |
| Odd Line/Gn+1 | D17~D10 | D07~D00 | D27~D20 | --- | D17~D10 | D07~D00 | D27~D20 |
| Even Line/Gn | D17~D10 | D07~D00 | D27~D20 | --- | D17~D10 | D07~D00 | D27~D20 |
| Even Line/Gn+1 | D27~D20 | D17~D10 | D07~D00 | --- | D27~D20 | D17~D10 | D07~D00 |

SHLR="0", left shift

| Output | SO1 | SO2 | SO3 | --- | SO1198 | SO1199 | SO1200 |
|---|---|---|---|---|---|---|---|
| Order | Last data | | | ← | First data | | |
| Odd Line/Gn | D07~D00 | D27~D20 | D17~D10 | --- | D07~D00 | D27~D20 | D17~D10 |
| Odd Line/Gn+1 | D17~D10 | D07~D00 | D27~D20 | --- | D17~D10 | D07~D00 | D27~D20 |
| Even Line/Gn | D17~D10 | D07~D00 | D27~D20 | --- | D17~D10 | D07~D00 | D27~D20 |
| Even Line/Gn+1 | D27~D20 | D17~D10 | D07~D00 | --- | D27~D20 | D17~D10 | D07~D00 |

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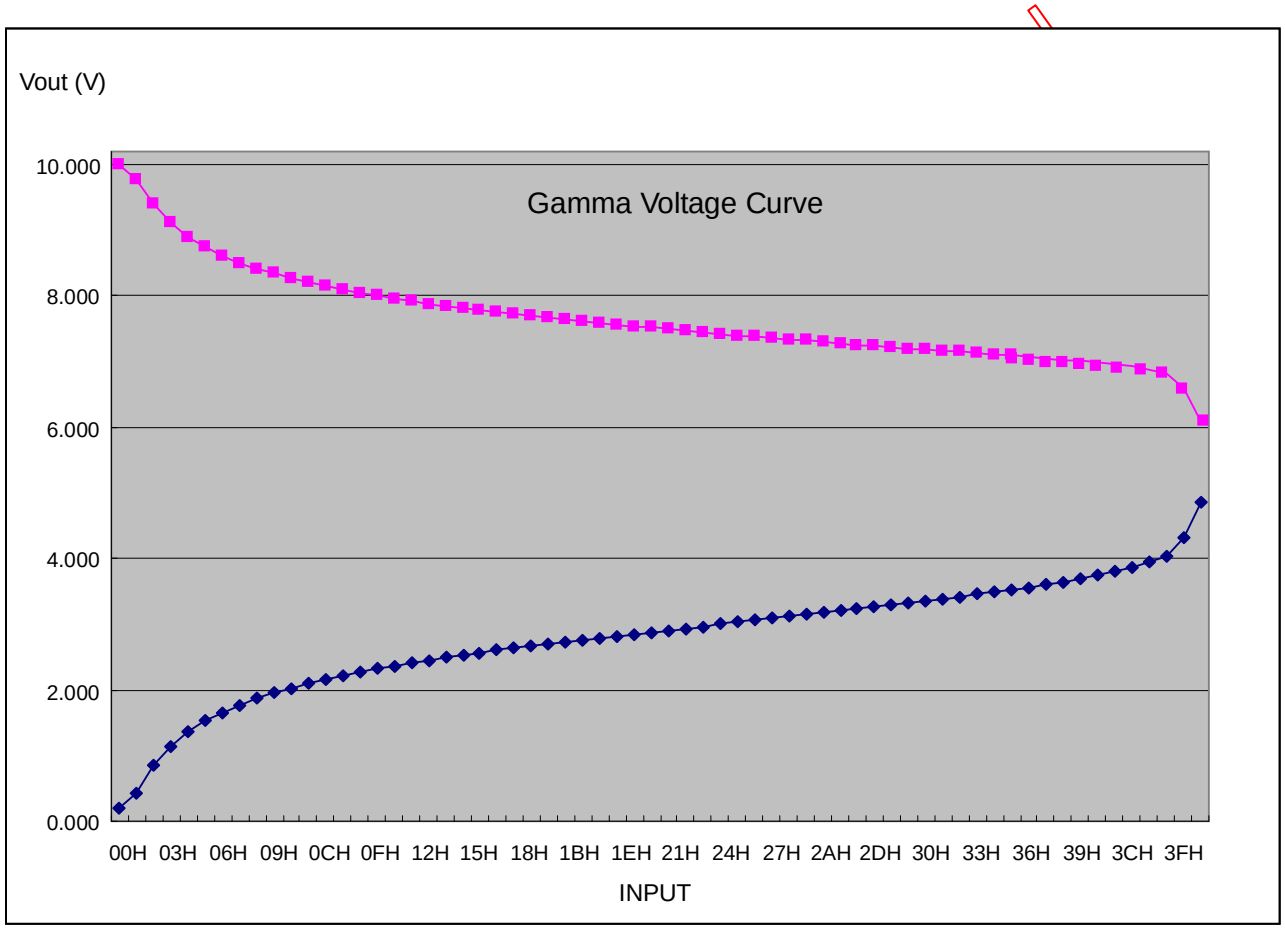
### 5.3. Input Data VS Output Voltage

The figure below shows the relationship between the input data and the output voltage. Refer to the following pages for the relative resistor values and voltage calculation method.

Gamma Tables very for each customer.




**Remark:** AVDD-0.1 > V1 > V2> V3 > V4 > V5 > V6 > V7; V8 > V9 > V10 > V11 > V12 > V13 > V14 > AVSS+0.1V

### 5.4. Input Data and Output Voltage Reference Table

Input Data and Output Voltage Reference Table

| Asy-Gamma @AVDD=10.4V | | | | | |
|---|---|---|---|---|---|
| Level | V+ | V- | Level | V+ | V- |
| 0 | 9.99544 | 0.19544 | 32 | 7.62801 | 2.96276 |
| 1 | 9.74167 | 0.46609 | 33 | 7.6064 | 2.99432 |
| 2 | 9.38791 | 0.84598 | 34 | 7.58521 | 3.02776 |
| 3 | 9.14826 | 1.10631 | 35 | 7.56694 | 3.05722 |
| 4 | 8.959 | 1.31459 | 36 | 7.54802 | 3.0877 |
| 5 | 8.81096 | 1.47967 | 37 | 7.52618 | 3.11692 |
| 6 | 8.69215 | 1.61326 | 38 | 7.50274 | 3.14577 |
| 7 | 8.59155 | 1.7279 | 39 | 7.48152 | 3.17187 |
| 8 | 8.50539 | 1.82725 | 40 | 7.46153 | 3.20067 |
| 9 | 8.42879 | 1.91694 | 41 | 7.44259 | 3.23201 |
| 10 | 8.3584 | 1.99876 | 42 | 7.43079 | 3.27186 |
| 11 | 8.30101 | 2.06792 | 43 | 7.41956 | 3.30901 |
| 12 | 8.24502 | 2.13436 | 44 | 7.40122 | 3.34041 |
| 13 | 8.19379 | 2.19625 | 45 | 7.38502 | 3.37533 |
| 14 | 8.14825 | 2.252 | 46 | 7.36578 | 3.4085 |
| 15 | 8.10377 | 2.30712 | 47 | 7.34928 | 3.44419 |
| 16 | 8.0645 | 2.35712 | 48 | 7.32513 | 3.4736 |
| 17 | 8.02666 | 2.40518 | 49 | 7.30037 | 3.50375 |
| 18 | 7.98939 | 2.45231 | 50 | 7.28065 | 3.54065 |
| 19 | 7.95731 | 2.49381 | 51 | 7.26167 | 3.58033 |
| 20 | 7.92413 | 2.53902 | 52 | 7.24646 | 3.62519 |
| 21 | 7.89613 | 2.58001 | 53 | 7.22793 | 3.66813 |
| 22 | 7.86902 | 2.61944 | 54 | 7.21236 | 3.72165 |
| 23 | 7.8407 | 2.66138 | 55 | 7.19252 | 3.77243 |
| 24 | 7.81479 | 2.69689 | 56 | 7.17277 | 3.82699 |
| 25 | 7.78911 | 2.73111 | 57 | 7.15248 | 3.89333 |
| 26 | 7.76239 | 2.76723 | 58 | 7.1318 | 3.96111 |
| 27 | 7.73804 | 2.80206 | 59 | 7.10615 | 4.04641 |
| 28 | 7.716 | 2.83394 | 60 | 7.07255 | 4.13526 |
| 29 | 7.69307 | 2.8673 | 61 | 7.01529 | 4.24283 |
| 30 | 7.6691 | 2.90199 | 62 | 6.9063 | 4.39937 |
| 31 | 7.64845 | 2.93198 | 63 | 6.28445 | 5.08445 |

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**Note:** Gamma Tables Vary for each customer.

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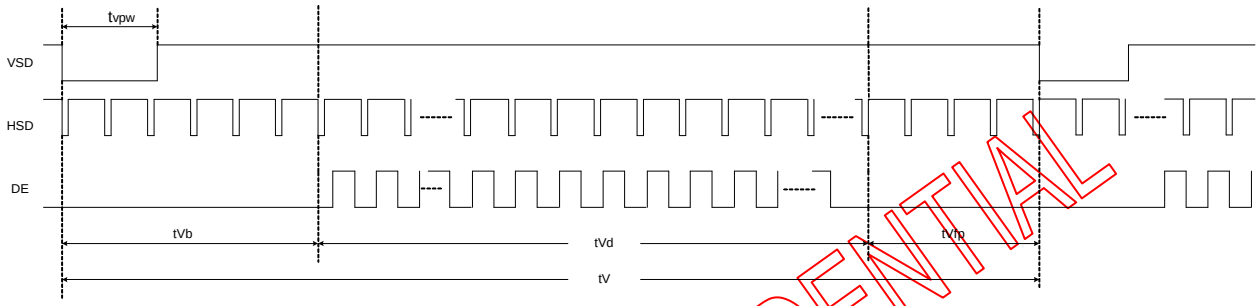
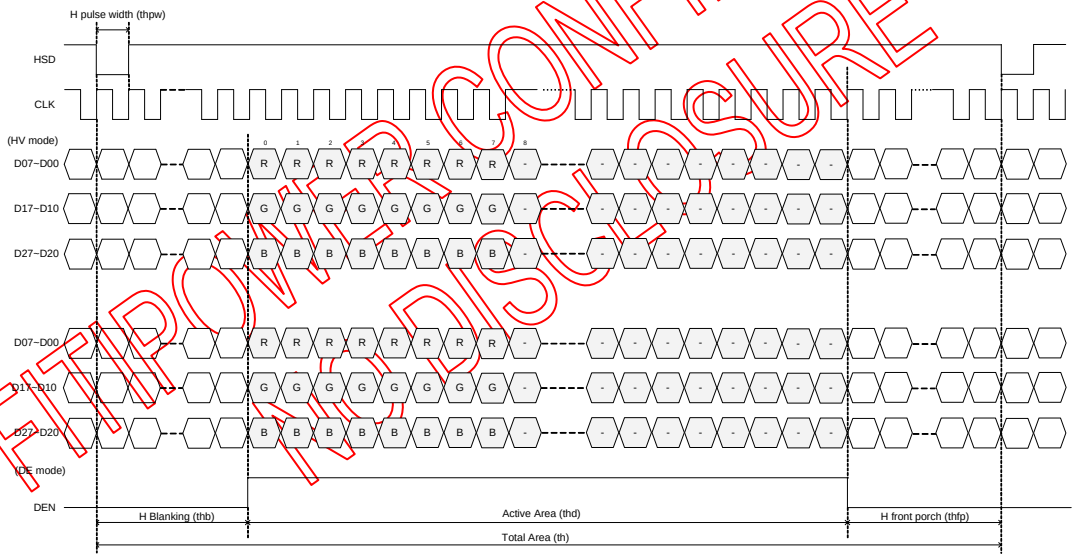
### 5.5. Data Input Format




Vertical input timing




Horizontal input timing

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### 5.6. Timing Characteristic

#### 5.6.1. For 800 × 480 panel

Horizontal input timing

| Parameter | | Symbol | Value | | | Unit |
|---|---|---|---|---|---|---|
| Horizontal display area | | thd | | 800 | | DCLK |
| DCLK frequency | | fclk | Min. | Typ. | Max | |
| | | | - | 33.3 | 50 | MHz |
| 1 Horizontal Line | | th | 862 | 1056 | 1200 | DCLK |
| HSD pulse width | Min. | thpw | | 1 | | |
| | Typ. | | | - | | |
| | Max. | | | 40 | | |
| HSD Back Porch (Blanking) | | thb | 46 | 46 | 46 | |
| HSD Front Porch | | thfp | 16 | 210 | 354 | |

Vertical input timing

| Parameter | Symbol | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|
| Vertical display area | tvd | | 480 | | H |
| VSD period time | tv | 510 | 525 | 650 | H |
| VSD pulse width | tvpw | 1 | - | 20 | H |
| VSD Back Porch (Blanking) | tvb | 23 | 23 | 23 | H |
| VSD Front Porch | tvfp | 7 | 22 | 147 | H |

#### 5.6.2. For 800 × 600 panel

Horizontal input timing

| Parameter | | Symbol | Value | | | Unit |
|---|---|---|---|---|---|---|
| Horizontal display area | | thd | | 800 | | DCLK |
| DCLK frequency | | fclk | Min. | Typ. | Max | |
| | | | - | 40 | 50 | MHz |
| 1 Horizontal Line | | th | 862 | 1056 | 1200 | DCLK |
| HSD pulse width | Min. | thpw | | 1 | | |
| | Typ. | | | - | | |
| | Max. | | | 40 | | |
| HSD Back Porch (Blanking) | | thb | 46 | 46 | 46 | |
| HSD Front Porch | | thfp | 16 | 210 | 354 | |

Vertical input timing

| Parameter | Symbol | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|
| Vertical display area | tvd | | 600 | | H |
| VSD period time | tv | 624 | 635 | 700 | H |
| VSD pulse width | tvpw | 1 | - | 20 | H |
| VSD Back Porch (Blanking) | tvb | 23 | 23 | 23 | H |
| VSD Front Porch | tvfp | 1 | 12 | 77 | H |

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## 6. ELECTRICAL SPECIFICATION

### 6.1. Absolute Maximum Ratings

VOLTAGE (TA = 25°C, GND = AVSS = 0V)

| | Min. | Max. | Unit |
|---|---|---|---|
| Digital Supply Voltage, VDD | -0.5 | +5.0 | V |
| Analog Supply Voltage, AVDD, V1~V14 | -0.5 | +15.0 | V |

TEMPERATURE

| | Min. | Max. | Unit |
|---|---|---|---|
| Operating temperature | -20 | +85 | °C |
| Storage temperature | -55 | +125 | °C |

**Comments**

Stresses above those listed under "Absolute Maximum Ratings" 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 exposed to absolute maximum rating conditions for extended periods may affect device reliability.

### 6.2. Recommended Operating Range

Recommended Operating Range (TA = -20 to 85°C, GND = AVSS = 0V)

| Parameter | Symbol | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|
| Digital supply voltage | VDD | 1.8 | 3.3 | 3.6 | V |
| Analog supply voltage | AVDD | 6.5 | - | 13.5 | V |
| Digital input voltage | VIN | 0 | - | VDD | V |

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### 6.3. DC Characteristics

DC Characteristics

(TA = -20 to 85°C, VDD = 1.8 to 3.6V, AVDD = 6.5 to 13.5V, GND = AVSS = 0V)

| Parameter | Symbol | Condition | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| Low level input voltage | Vil | For the digital circuit | 0 | - | 0.3×VDD | V |
| High level input voltage | Vih | For the digital circuit | 0.7×VDD | - | VDD | V |
| Input leakage current | Ii | For the digital circuit | - | - | ±1 | μA |
| High level output voltage | Voh | Ioh= -400 μA | VDD-0.4 | - | - | V |
| Low level output voltage | Vol | Iol= +400 μA | - | - | GND+0.4 | V |
| Pull low/high resistor | Ri | For the digital input pin @ VDD=3.3V | 150K | 250K | 350K | ohm |
| Digital Operation current | Idd | Fclk=40 MHz, FLD=37.88KHz, VDD=3.3V | - | 8 | 10 | mA |
| Digital Stand-by current | Ist1 | Clock and all functions are stopped | - | 10 | 50 | μA |
| Analog Operating Current | Idda | No load, Fclk=40MHz, FLD=37.88KHz @ AVDD=10V,V1=8V, V14=0.4V | - | 10 | 12 | mA |
| Analog Stand-by current | Ist2 | No load, Clock and all functions are stopped | - | 10 | 50 | μA |
| Input level of V1 ~ V7 | Vref1 | Gamma correction voltage input | 0.4*AVDD | - | AVDD-0.1 | V |
| Input level of V8 ~ V14 | Vref2 | Gamma correction voltage input | 0.1 | - | 0.6*AVDD | V |
| Output Voltage deviation | Vod1 | Vo = AVSS+0.1V ~ AVSS+0.5V and Vo = AVDD-0.5V ~ AVDD-0.1V | - | ±20 | ±35 | mV |
| Output Voltage deviation | Vod2 | Vo = AVSS+0.5V ~ AVDD-0.5V | - | ±15 | ±20 | mV |
| Output Voltage Offset between Chips | Voc | Vo = AVSS+0.5V ~ AVDD-0.5V | - | - | ±20 | mV |
| Dynamic Range of Output | Vdr | SO1 ~ SO1200 | 0.1 | - | AVDD-0.1 | V |
| Sinking Current of Outputs | IOLy | SO1 ~ SO1200; Vo=0.1V v.s 1.0V , AVDD=13.5V | 80 | - | - | uA |
| Driving Current of Outputs | IOHy | SO1 ~ SO1200; Vo=13.4V v.s 12.5V , AVDD=13.5V | 80 | - | - | uA |
| Resistance of Gamma Table | Rg | Rn: Internal gamma resistor | 0.7*Rn | 1.0*Rn | 1.3*Rn | ohm |

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### 6.4. AC Characteristics

AC Characteristics

(TA = -20 to 85°C, VDD = 1.8 to 3.6V, AVDD = 6.5 to 13.5V, GND = AVSS = 0V)

| Parameter | Symbol | Condition | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| VDD Power On Slew rate | TPOR | From 0V to 90% VDD | - | - | 20 | ms |
| RSTB pulse width | TRST | CLKIN = 40MHz | 1 | - | - | ms |
| CLKIN cycle time | Tcph | - | 20 | - | - | ns |
| CLKIN pulse duty | Tcwh | - | 40 | 50 | 60 | % |
| VSD setup time | Tvst | - | 8 | - | - | ns |
| VSD hold time | Tvhd | - | 8 | - | - | ns |
| HSD setup time | Thst | - | 8 | - | - | ns |
| HSD hold time | Thhd | - | 8 | - | - | ns |
| Data set-up time | Tdsu | D0[7:0], D1[7:0], D2[7:0] to CLKIN | 8 | - | - | ns |
| Data hold time | Tdhd | D0[7:0], D1[7:0], D2[7:0] to CLKIN | 8 | - | - | ns |
| DEN setup time | Tesu | - | 8 | - | - | ns |
| DEN hold time | Tehd | - | 8 | - | - | ns |
| Output stable time | Tsst | 10% to 90% target voltage.<br>CL=120pF, R=10K ohm | - | - | 6 | us |

### 6.5. Timing Table

Parallel 24-bit RGB Mode

| Parameter | Symbol | Condition | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| CLKIN Frequency | Fclk | VDD = 1.8V ~3.6V | - | 33.3 | 50 | MHz |
| CLKIN Cycle Time | Tclk | - | 20 | 30 | - | ns |
| CLKIN Pulse Duty | Tcwh | Tclk= Tcwh + cwl | 40 | 50 | 60 | % |
| | Tcwl | | 40 | 50 | -60 | % |
| VSD to STV | Tstv | HV mode | - | 24 | - | H |
| DEN to STV | Tstv | DE mode | - | 4 | - | CLKIN |
| STV pulse width | Twstv | - | - | 0.5 | - | H |
| STV to CKV | Tckv | - | - | 18 | - | CLKIN |
| STV to OEV | Toev | - | - | 2 | - | CLKIN |
| CKV Pulse Width | Twckv | - | - | 66 | - | CLKIN |
| OEV Pulse Width | Twoev | - | - | 50 | - | CLKIN |

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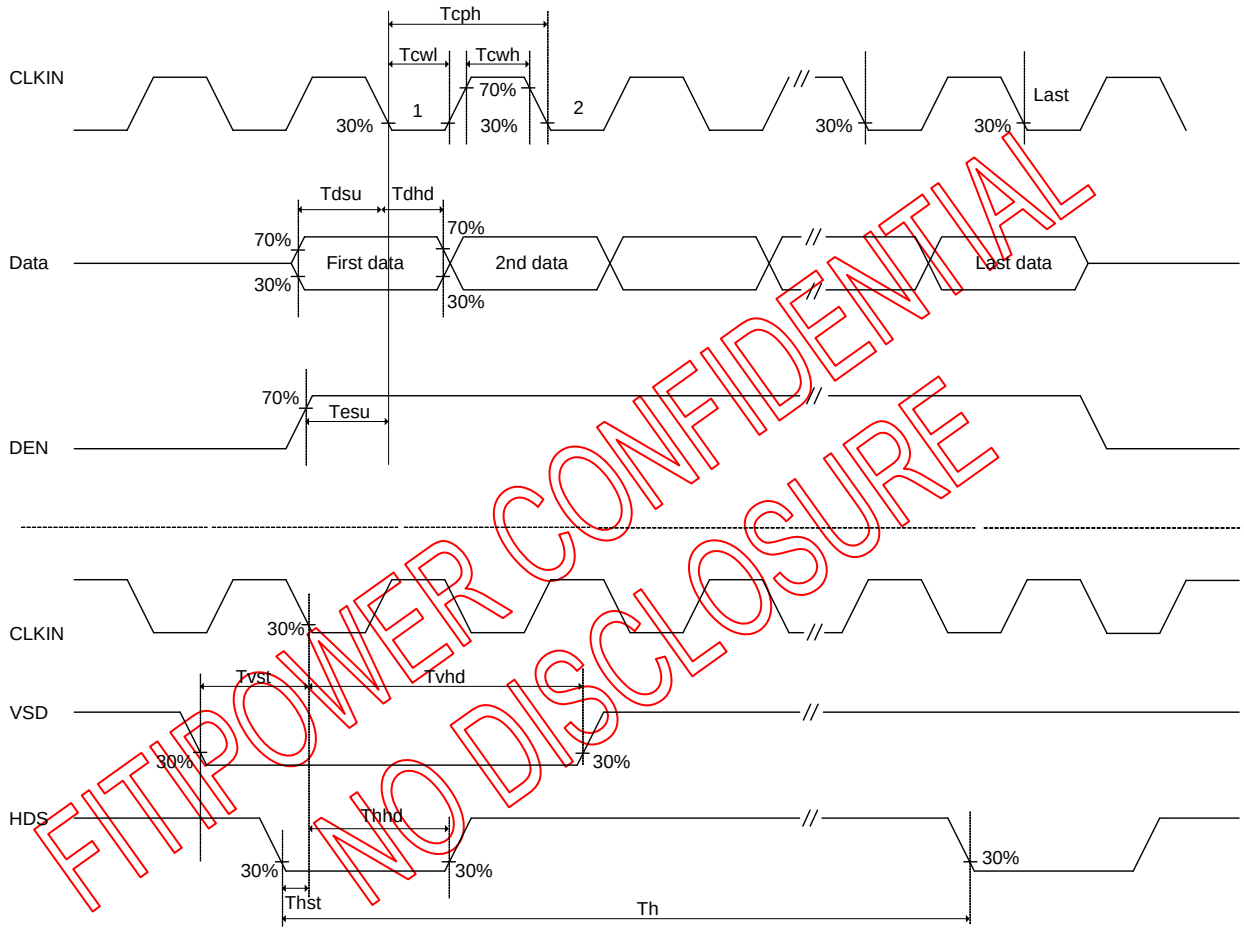
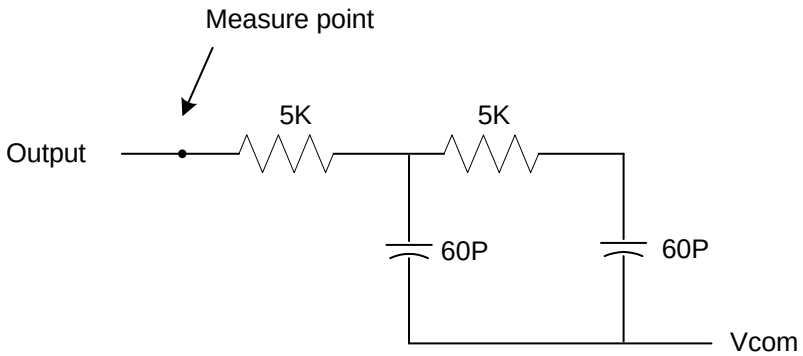
### 6.6. Timing Waveform




Input Clock and Data Timing Diagram




Output load condition

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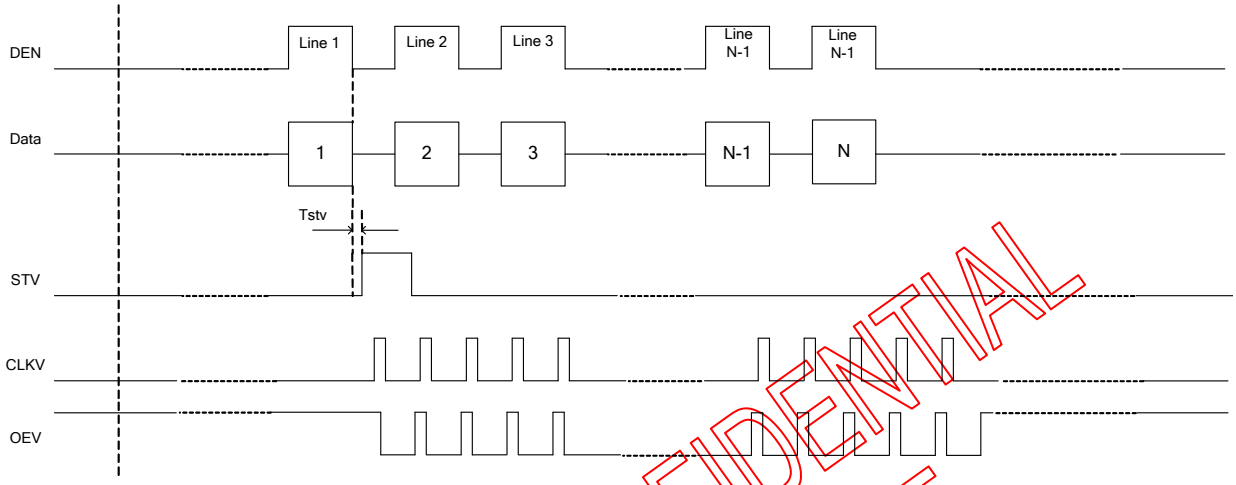
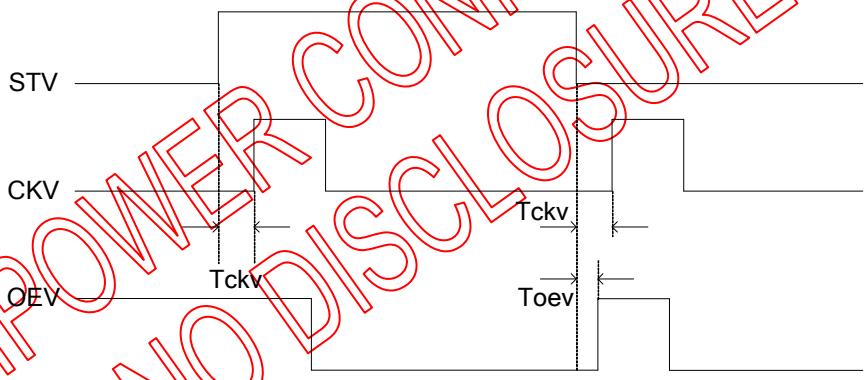
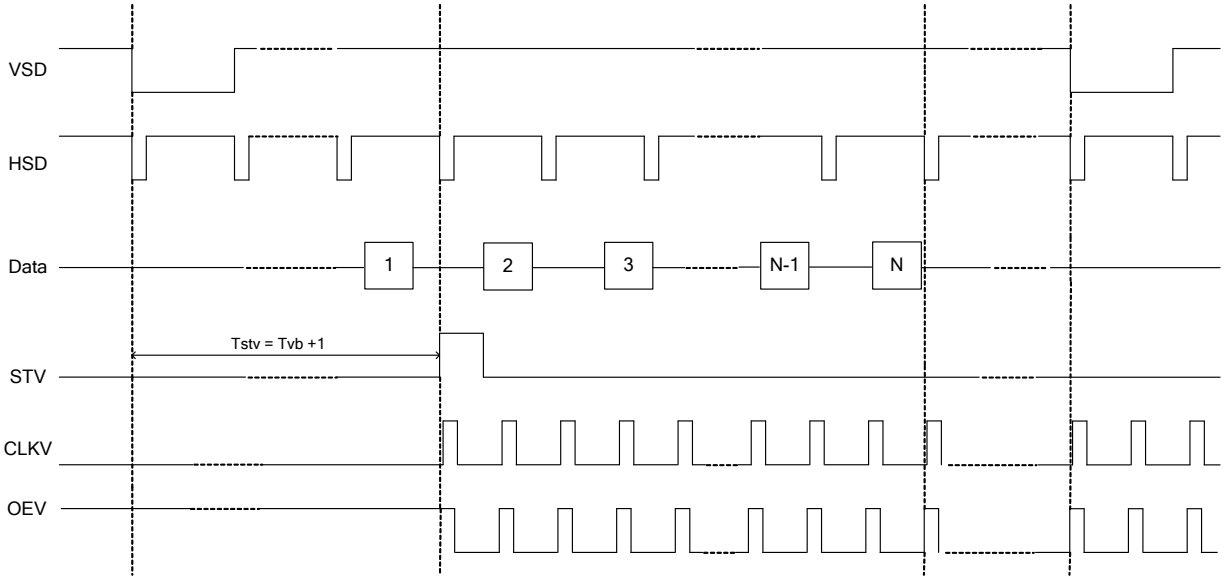



Vertical Timing Diagram DE

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Vertical Timing Diagram HV

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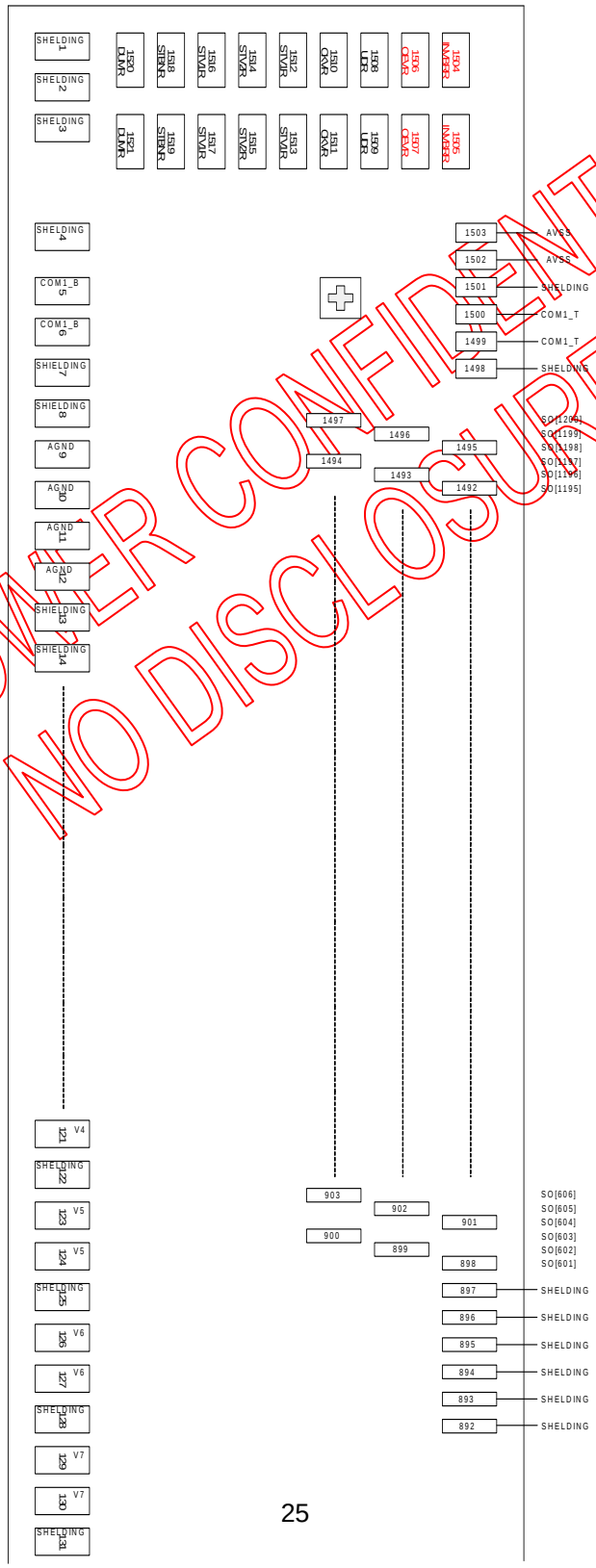
## 7. PAD DIAGRAM

**Chip Size: 22557um x 952um (Include Scribe Line)**

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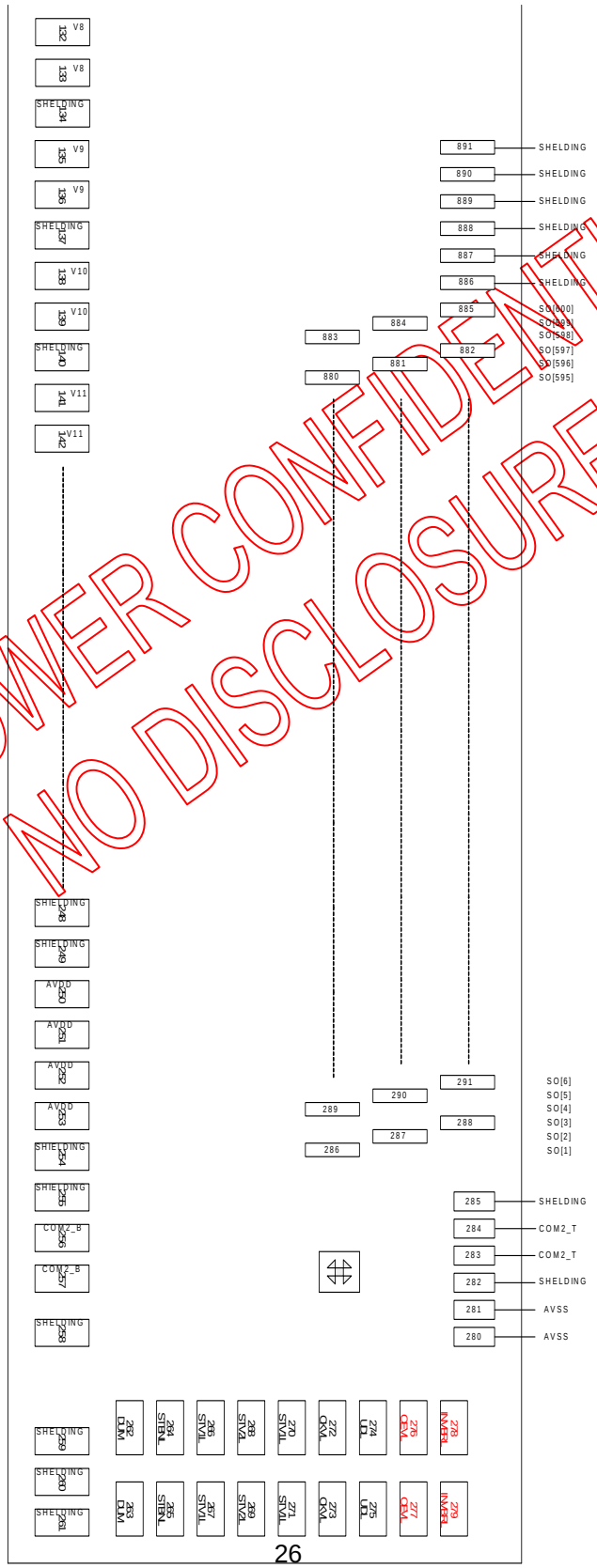


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### 7.1. CHIP OUTLINE DIMENSIONS

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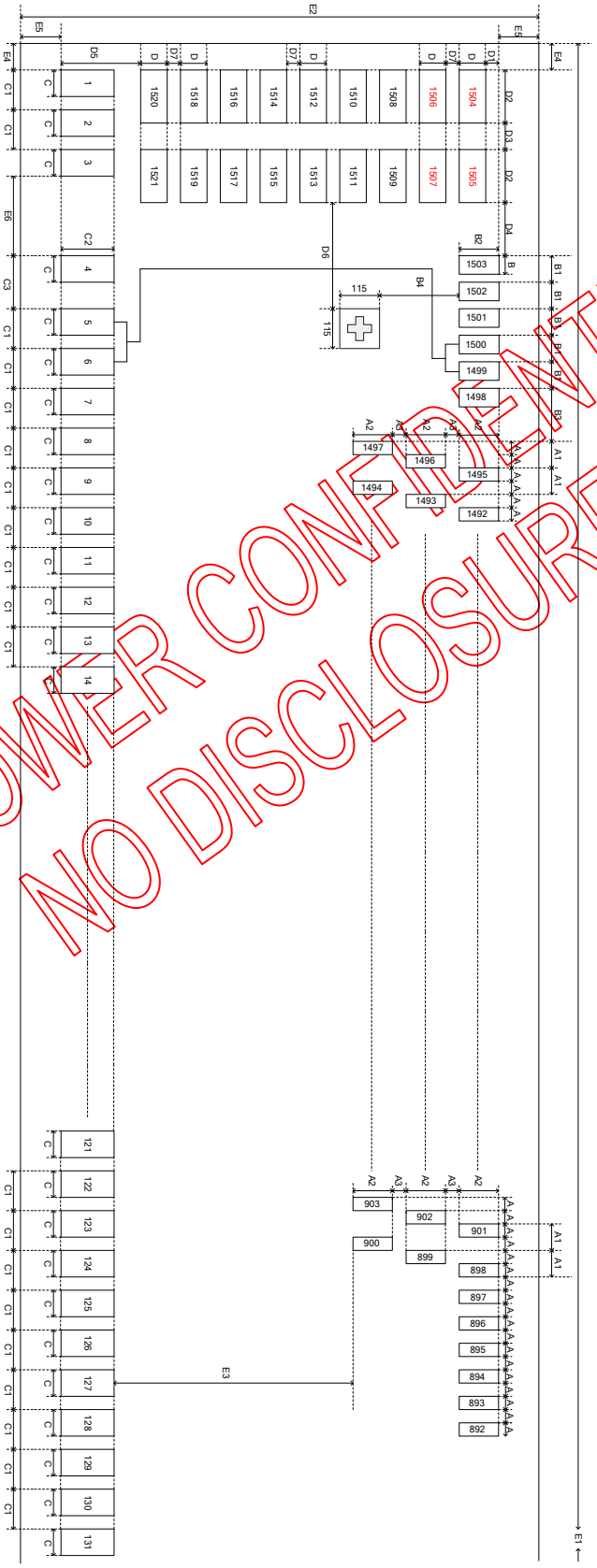

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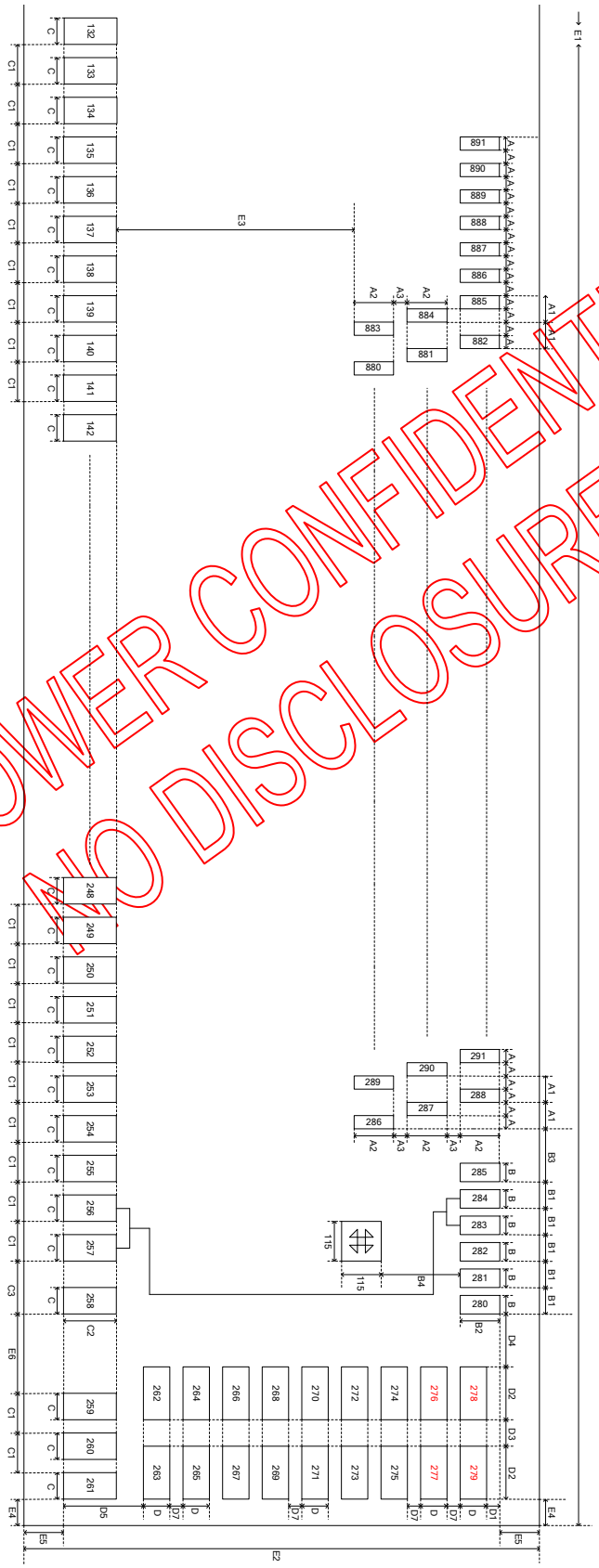
NO DISCLOSURE

FITIPOWER CONFIDENTIAL
NO DISCLOSURE



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| Symbol | Dimensions in um |
|---|---|
| A | 14 |
| A1 | 31 |
| A2 | 65 |
| A3 | 62.5 |
| B | 30 |
| B1 | 50 |
| B2 | 45 |
| B3 | 50 |
| B4 | 191.5 |
| C | 40 |
| C1 | 85 |
| C2 | 60 |
| C3 | 115 |
| D | 26 |

| Symbol | Dimensions in um |
|---|---|
| D1 | 17 |
| D2 | 50 |
| D3 | 80 |
| D4 | 95.8 |
| D5 | 170.5 |
| D6 | 191.29 |
| D7 | 54 |
| E1 | 22557 |
| E2 | 952 |
| E3 | 451 |
| E4 | 64.24 |
| E5 | 50.5 |
| E6 | 161.46 |

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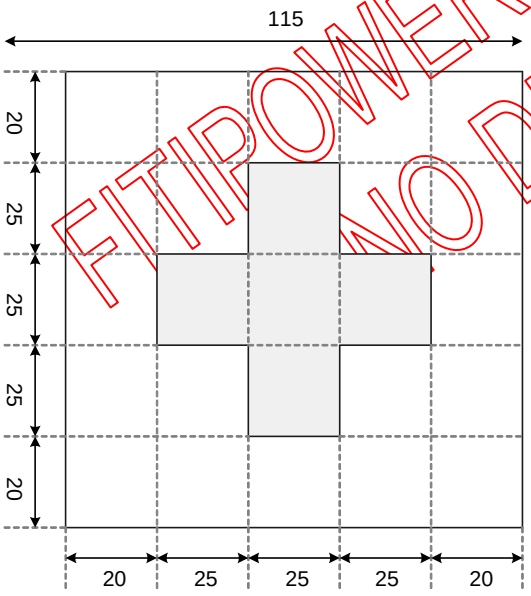
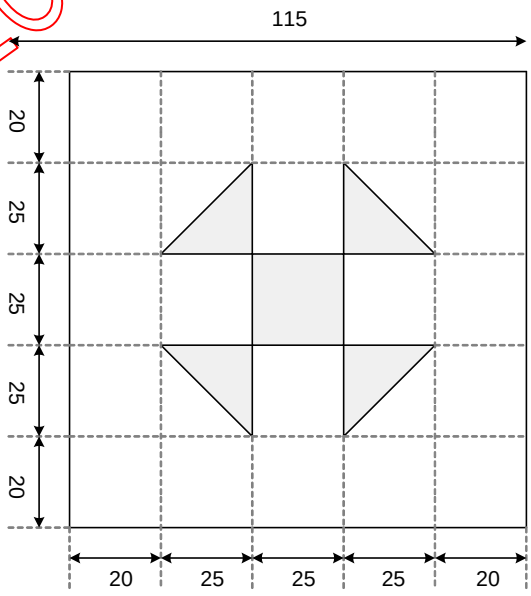
### 7.2. ALIGNMENT MARK DIMENSION (unit: um)

**Left Side**




**Right Side**



### 7.3. PAD COORDINATES(without Bump shift)

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 1 | SHIELDING | -11196.5 | -395.5 | 40 | 60 |
| 2 | SHIELDING | -11111.5 | -395.5 | 40 | 60 |
| 3 | SHIELDING | -11026.5 | -395.5 | 40 | 60 |
| 4 | SHIELDING | -10825 | -395.5 | 40 | 60 |
| 5 | COM1_B | -10710 | -395.5 | 40 | 60 |
| 6 | COM1_B | -10625 | -395.5 | 40 | 60 |
| 7 | SHIELDING | -10540 | -395.5 | 40 | 60 |
| 8 | SHIELDING | -10455 | -395.5 | 40 | 60 |
| 9 | AVSS | -10370 | -395.5 | 40 | 60 |
| 10 | AVSS | -10285 | -395.5 | 40 | 60 |
| 11 | AVSS | -10200 | -395.5 | 40 | 60 |
| 12 | AVSS | -10115 | -395.5 | 40 | 60 |
| 13 | SHIELDING | -10030 | -395.5 | 40 | 60 |
| 14 | SHIELDING | -9945 | -395.5 | 40 | 60 |
| 15 | SHIELDING | -9860 | -395.5 | 40 | 60 |
| 16 | SHIELDING | -9775 | -395.5 | 40 | 60 |
| 17 | SHIELDING | -9690 | -395.5 | 40 | 60 |
| 18 | SHIELDING | -9605 | -395.5 | 40 | 60 |
| 19 | TP0 | -9520 | -395.5 | 40 | 60 |
| 20 | TP0 | -9435 | -395.5 | 40 | 60 |
| 21 | TP1 | -9350 | -395.5 | 40 | 60 |
| 22 | TP1 | -9265 | -395.5 | 40 | 60 |
| 23 | TP2 | -9180 | -395.5 | 40 | 60 |
| 24 | TP2 | -9095 | -395.5 | 40 | 60 |
| 25 | TP3 | -9010 | -395.5 | 40 | 60 |
| 26 | TP3 | -8925 | -395.5 | 40 | 60 |
| 27 | TP4 | -8840 | -395.5 | 40 | 60 |
| 28 | TP4 | -8755 | -395.5 | 40 | 60 |
| 29 | TP5 | -8670 | -395.5 | 40 | 60 |
| 30 | TP5 | -8585 | -395.5 | 40 | 60 |
| 31 | SHIELDING | -8500 | -395.5 | 40 | 60 |
| 32 | TB0 | -8415 | -395.5 | 40 | 60 |
| 33 | TB0 | -8330 | -395.5 | 40 | 60 |
| 34 | SHIELDING | -8245 | -395.5 | 40 | 60 |
| 35 | TB1 | -8160 | -395.5 | 40 | 60 |
| 36 | TB1 | -8075 | -395.5 | 40 | 60 |
| 37 | SHIELDING | -7990 | -395.5 | 40 | 60 |
| 38 | SHIELDING | -7905 | -395.5 | 40 | 60 |
| 39 | SHIELDING | -7820 | -395.5 | 40 | 60 |
| 40 | SHIELDING | -7735 | -395.5 | 40 | 60 |
| 41 | TB2 | -7650 | -395.5 | 40 | 60 |
| 42 | TB2 | -7565 | -395.5 | 40 | 60 |
| 43 | SHIELDING | -7480 | -395.5 | 40 | 60 |
| 44 | TB3 | -7395 | -395.5 | 40 | 60 |
| 45 | TB3 | -7310 | -395.5 | 40 | 60 |
| 46 | SHIELDING | -7225 | -395.5 | 40 | 60 |
| 47 | TB4 | -7140 | -395.5 | 40 | 60 |
| 48 | TB4 | -7055 | -395.5 | 40 | 60 |
| 49 | SHIELDING | -6970 | -395.5 | 40 | 60 |
| 50 | SHIELDING | -6885 | -395.5 | 40 | 60 |
| 51 | GOSEQ | -6800 | -395.5 | 40 | 60 |
| 52 | GOSEQ | -6715 | -395.5 | 40 | 60 |
| 53 | SHIELDING | -6630 | -395.5 | 40 | 60 |
| 54 | BIST | -6545 | -395.5 | 40 | 60 |
| 55 | BIST | -6460 | -395.5 | 40 | 60 |
| 56 | SHIELDING | -6375 | -395.5 | 40 | 60 |
| 57 | RES0 | -6290 | -395.5 | 40 | 60 |
| 58 | RES0 | -6205 | -395.5 | 40 | 60 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 61 | CFSEL | -5950 | -395.5 | 40 | 60 |
| 62 | SHIELDING | -5865 | -395.5 | 40 | 60 |
| 63 | CLKPOL | -5780 | -395.5 | 40 | 60 |
| 64 | CLKPOL | -5695 | -395.5 | 40 | 60 |
| 65 | SHIELDING | -5610 | -395.5 | 40 | 60 |
| 66 | DITHB | -5525 | -395.5 | 40 | 60 |
| 67 | DITHB | -5440 | -395.5 | 40 | 60 |
| 68 | SHIELDING | -5355 | -395.5 | 40 | 60 |
| 69 | MODE | -5270 | -395.5 | 40 | 60 |
| 70 | MODE | -5185 | -395.5 | 40 | 60 |
| 71 | SHIELDING | -5100 | -395.5 | 40 | 60 |
| 72 | SHLR | -5015 | -395.5 | 40 | 60 |
| 73 | SHLR | -4930 | -395.5 | 40 | 60 |
| 74 | SHIELDING | -4845 | -395.5 | 40 | 60 |
| 75 | UPDN | -4760 | -395.5 | 40 | 60 |
| 76 | UPDN | -4675 | -395.5 | 40 | 60 |
| 77 | SHIELDING | -4590 | -395.5 | 40 | 60 |
| 78 | STBYB | -4505 | -395.5 | 40 | 60 |
| 79 | STBYB | -4420 | -395.5 | 40 | 60 |
| 80 | SHIELDING | -4335 | -395.5 | 40 | 60 |
| 81 | RSTB | -4250 | -395.5 | 40 | 60 |
| 82 | RSTB | -4165 | -395.5 | 40 | 60 |
| 83 | SHIELDING | -4080 | -395.5 | 40 | 60 |
| 84 | BLKEN | -3995 | -395.5 | 40 | 60 |
| 85 | BLKEN | -3910 | -395.5 | 40 | 60 |
| 86 | SHIELDING | -3825 | -395.5 | 40 | 60 |
| 87 | VSET | -3740 | -395.5 | 40 | 60 |
| 88 | VSET | -3655 | -395.5 | 40 | 60 |
| 89 | TP6 | -3570 | -395.5 | 40 | 60 |
| 90 | TP7 | -3485 | -395.5 | 40 | 60 |
| 91 | TP8 | -3400 | -395.5 | 40 | 60 |
| 92 | TP9 | -3315 | -395.5 | 40 | 60 |
| 93 | TP10 | -3230 | -395.5 | 40 | 60 |
| 94 | TP11 | -3145 | -395.5 | 40 | 60 |
| 95 | TP12 | -3060 | -395.5 | 40 | 60 |
| 96 | TP13 | -2975 | -395.5 | 40 | 60 |
| 97 | TP14 | -2890 | -395.5 | 40 | 60 |
| 98 | TP15 | -2805 | -395.5 | 40 | 60 |
| 99 | TP16 | -2720 | -395.5 | 40 | 60 |
| 100 | TP17 | -2635 | -395.5 | 40 | 60 |
| 101 | SHIELDING | -2550 | -395.5 | 40 | 60 |
| 102 | AVDD | -2465 | -395.5 | 40 | 60 |
| 103 | AVDD | -2380 | -395.5 | 40 | 60 |
| 104 | AVDD | -2295 | -395.5 | 40 | 60 |
| 105 | AVDD | -2210 | -395.5 | 40 | 60 |
| 106 | AVDD | -2125 | -395.5 | 40 | 60 |
| 107 | AVDD | -2040 | -395.5 | 40 | 60 |
| 108 | AVDD | -1955 | -395.5 | 40 | 60 |
| 109 | AVDD | -1870 | -395.5 | 40 | 60 |
| 110 | SHIELDING | -1785 | -395.5 | 40 | 60 |
| 111 | V1 | -1700 | -395.5 | 40 | 60 |
| 112 | V1 | -1615 | -395.5 | 40 | 60 |
| 113 | SHIELDING | -1530 | -395.5 | 40 | 60 |
| 114 | V2 | -1445 | -395.5 | 40 | 60 |
| 115 | V2 | -1360 | -395.5 | 40 | 60 |
| 116 | SHIELDING | -1275 | -395.5 | 40 | 60 |
| 117 | V3 | -1190 | -395.5 | 40 | 60 |
| 118 | V3 | -1105 | -395.5 | 40 | 60 |

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| | | | | | |
|---|---|---|---|---|---|
| 59 | SHIELDING | -6120 | -395.5 | 40 | 60 |
| 60 | CFSEL | -6035 | -395.5 | 40 | 60 |

| | | | | | |
|---|---|---|---|---|---|
| 119 | SHIELDING | -1020 | -395.5 | 40 | 60 |
| 120 | V4 | -935 | -395.5 | 40 | 60 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 121 | V4 | -850 | -395.5 | 40 | 60 |
| 122 | SHIELDING | -765 | -395.5 | 40 | 60 |
| 123 | V5 | -680 | -395.5 | 40 | 60 |
| 124 | V5 | -595 | -395.5 | 40 | 60 |
| 125 | SHIELDING | -510 | -395.5 | 40 | 60 |
| 126 | V6 | -425 | -395.5 | 40 | 60 |
| 127 | V6 | -340 | -395.5 | 40 | 60 |
| 128 | SHIELDING | -255 | -395.5 | 40 | 60 |
| 129 | V7 | -170 | -395.5 | 40 | 60 |
| 130 | V7 | -85 | -395.5 | 40 | 60 |
| 131 | SHIELDING | 0 | -395.5 | 40 | 60 |
| 132 | V8 | 85 | -395.5 | 40 | 60 |
| 133 | V8 | 170 | -395.5 | 40 | 60 |
| 134 | SHIELDING | 255 | -395.5 | 40 | 60 |
| 135 | V9 | 340 | -395.5 | 40 | 60 |
| 136 | V9 | 425 | -395.5 | 40 | 60 |
| 137 | SHIELDING | 510 | -395.5 | 40 | 60 |
| 138 | V10 | 595 | -395.5 | 40 | 60 |
| 139 | V10 | 680 | -395.5 | 40 | 60 |
| 140 | SHIELDING | 765 | -395.5 | 40 | 60 |
| 141 | V11 | 850 | -395.5 | 40 | 60 |
| 142 | V11 | 935 | -395.5 | 40 | 60 |
| 143 | SHIELDING | 1020 | -395.5 | 40 | 60 |
| 144 | V12 | 1105 | -395.5 | 40 | 60 |
| 145 | V12 | 1190 | -395.5 | 40 | 60 |
| 146 | SHIELDING | 1275 | -395.5 | 40 | 60 |
| 147 | V13 | 1360 | -395.5 | 40 | 60 |
| 148 | V13 | 1445 | -395.5 | 40 | 60 |
| 149 | SHIELDING | 1530 | -395.5 | 40 | 60 |
| 150 | V14 | 1615 | -395.5 | 40 | 60 |
| 151 | V14 | 1700 | -395.5 | 40 | 60 |
| 152 | SHIELDING | 1785 | -395.5 | 40 | 60 |
| 153 | AVSS | 1870 | -395.5 | 40 | 60 |
| 154 | AVSS | 1955 | -395.5 | 40 | 60 |
| 155 | AVSS | 2040 | -395.5 | 40 | 60 |
| 156 | AVSS | 2125 | -395.5 | 40 | 60 |
| 157 | AVSS | 2210 | -395.5 | 40 | 60 |
| 158 | AVSS | 2295 | -395.5 | 40 | 60 |
| 159 | AVSS | 2380 | -395.5 | 40 | 60 |
| 160 | AVSS | 2465 | -395.5 | 40 | 60 |
| 161 | SHIELDING | 2550 | -395.5 | 40 | 60 |
| 162 | SHIELDING | 2635 | -395.5 | 40 | 60 |
| 163 | VSS | 2720 | -395.5 | 40 | 60 |
| 164 | VSS | 2805 | -395.5 | 40 | 60 |
| 165 | VSS | 2890 | -395.5 | 40 | 60 |
| 166 | VSS | 2975 | -395.5 | 40 | 60 |
| 167 | SHIELDING | 3060 | -395.5 | 40 | 60 |
| 168 | SHIELDING | 3145 | -395.5 | 40 | 60 |
| 169 | VDD | 3230 | -395.5 | 40 | 60 |
| 170 | VDD | 3315 | -395.5 | 40 | 60 |
| 171 | VDD | 3400 | -395.5 | 40 | 60 |
| 172 | VDD | 3485 | -395.5 | 40 | 60 |
| 173 | DASHD | 3570 | -395.5 | 40 | 60 |
| 174 | VSD | 3655 | -395.5 | 40 | 60 |
| 175 | VSD | 3740 | -395.5 | 40 | 60 |
| 176 | DASHD | 3825 | -395.5 | 40 | 60 |
| 177 | HSD | 3910 | -395.5 | 40 | 60 |
| 178 | HSD | 3995 | -395.5 | 40 | 60 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 181 | DEN | 4250 | -395.5 | 40 | 60 |
| 182 | DASHD | 4335 | -395.5 | 40 | 60 |
| 183 | CLKIN | 4420 | -395.5 | 40 | 60 |
| 184 | CLKIN | 4505 | -395.5 | 40 | 60 |
| 185 | DASHD | 4590 | -395.5 | 40 | 60 |
| 186 | D27 | 4675 | -395.5 | 40 | 60 |
| 187 | D27 | 4760 | -395.5 | 40 | 60 |
| 188 | D26 | 4845 | -395.5 | 40 | 60 |
| 189 | D26 | 4930 | -395.5 | 40 | 60 |
| 190 | DASHD | 5015 | -395.5 | 40 | 60 |
| 191 | D25 | 5100 | -395.5 | 40 | 60 |
| 192 | D25 | 5185 | -395.5 | 40 | 60 |
| 193 | D24 | 5270 | -395.5 | 40 | 60 |
| 194 | D24 | 5355 | -395.5 | 40 | 60 |
| 195 | DASHD | 5440 | -395.5 | 40 | 60 |
| 196 | D23 | 5525 | -395.5 | 40 | 60 |
| 197 | D23 | 5610 | -395.5 | 40 | 60 |
| 198 | D22 | 5695 | -395.5 | 40 | 60 |
| 199 | D22 | 5780 | -395.5 | 40 | 60 |
| 200 | DASHD | 5865 | -395.5 | 40 | 60 |
| 201 | D21 | 5950 | -395.5 | 40 | 60 |
| 202 | D21 | 6035 | -395.5 | 40 | 60 |
| 203 | D20 | 6120 | -395.5 | 40 | 60 |
| 204 | D20 | 6205 | -395.5 | 40 | 60 |
| 205 | DASHD | 6290 | -395.5 | 40 | 60 |
| 206 | D17 | 6375 | -395.5 | 40 | 60 |
| 207 | D17 | 6460 | -395.5 | 40 | 60 |
| 208 | D16 | 6545 | -395.5 | 40 | 60 |
| 209 | D16 | 6630 | -395.5 | 40 | 60 |
| 210 | DASHD | 6715 | -395.5 | 40 | 60 |
| 211 | D15 | 6800 | -395.5 | 40 | 60 |
| 212 | D15 | 6885 | -395.5 | 40 | 60 |
| 213 | D14 | 6970 | -395.5 | 40 | 60 |
| 214 | D14 | 7055 | -395.5 | 40 | 60 |
| 215 | DASHD | 7140 | -395.5 | 40 | 60 |
| 216 | D13 | 7225 | -395.5 | 40 | 60 |
| 217 | D13 | 7310 | -395.5 | 40 | 60 |
| 218 | D12 | 7395 | -395.5 | 40 | 60 |
| 219 | D12 | 7480 | -395.5 | 40 | 60 |
| 220 | DASHD | 7565 | -395.5 | 40 | 60 |
| 221 | D11 | 7650 | -395.5 | 40 | 60 |
| 222 | D11 | 7735 | -395.5 | 40 | 60 |
| 223 | D10 | 7820 | -395.5 | 40 | 60 |
| 224 | D10 | 7905 | -395.5 | 40 | 60 |
| 225 | DASHD | 7990 | -395.5 | 40 | 60 |
| 226 | D07 | 8075 | -395.5 | 40 | 60 |
| 227 | D07 | 8160 | -395.5 | 40 | 60 |
| 228 | D06 | 8245 | -395.5 | 40 | 60 |
| 229 | D06 | 8330 | -395.5 | 40 | 60 |
| 230 | DASHD | 8415 | -395.5 | 40 | 60 |
| 231 | D05 | 8500 | -395.5 | 40 | 60 |
| 232 | D05 | 8585 | -395.5 | 40 | 60 |
| 233 | D04 | 8670 | -395.5 | 40 | 60 |
| 234 | D04 | 8755 | -395.5 | 40 | 60 |
| 235 | DASHD | 8840 | -395.5 | 40 | 60 |
| 236 | D03 | 8925 | -395.5 | 40 | 60 |
| 237 | D03 | 9010 | -395.5 | 40 | 60 |
| 238 | D02 | 9095 | -395.5 | 40 | 60 |

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|---|---|---|---|---|---|
| 179 | DASHD | 4080 | -395.5 | 40 | 60 |
| 180 | DEN | 4165 | -395.5 | 40 | 60 |

| | | | | | |
|---|---|---|---|---|---|
| 239 | D02 | 9180 | -395.5 | 40 | 60 |
| 240 | DASHD | 9265 | -395.5 | 40 | 60 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 241 | D01 | 9350 | -395.5 | 40 | 60 |
| 242 | D01 | 9435 | -395.5 | 40 | 60 |
| 243 | D00 | 9520 | -395.5 | 40 | 60 |
| 244 | D00 | 9605 | -395.5 | 40 | 60 |
| 245 | DASHD | 9690 | -395.5 | 40 | 60 |
| 246 | SHIELDING | 9775 | -395.5 | 40 | 60 |
| 247 | SHIELDING | 9860 | -395.5 | 40 | 60 |
| 248 | SHIELDING | 9945 | -395.5 | 40 | 60 |
| 249 | SHIELDING | 10030 | -395.5 | 40 | 60 |
| 250 | AVDD | 10115 | -395.5 | 40 | 60 |
| 251 | AVDD | 10200 | -395.5 | 40 | 60 |
| 252 | AVDD | 10285 | -395.5 | 40 | 60 |
| 253 | AVDD | 10370 | -395.5 | 40 | 60 |
| 254 | SHIELDING | 10455 | -395.5 | 40 | 60 |
| 255 | SHIELDING | 10540 | -395.5 | 40 | 60 |
| 256 | COM2_B | 10625 | -395.5 | 40 | 60 |
| 257 | COM2_B | 10710 | -395.5 | 40 | 60 |
| 258 | SHIELDING | 10825 | -395.5 | 40 | 60 |
| 259 | SHIELDING | 11026.5 | -395.5 | 40 | 60 |
| 260 | SHIELDING | 11111.5 | -395.5 | 40 | 60 |
| 261 | SHIELDING | 11196.5 | -395.5 | 40 | 60 |
| 262 | DUM | 11049 | -242 | 50 | 26 |
| 263 | DUM | 11179 | -242 | 50 | 26 |
| 264 | STBNL | 11049 | -162 | 50 | 26 |
| 265 | STBNL | 11179 | -162 | 50 | 26 |
| 266 | STV1L | 11049 | -82 | 50 | 26 |
| 267 | STV1L | 11179 | -82 | 50 | 26 |
| 268 | STV2L | 11049 | -2 | 50 | 26 |
| 269 | STV2L | 11179 | -2 | 50 | 26 |
| 270 | STV1L | 11049 | 78 | 50 | 26 |
| 271 | STV1L | 11179 | 78 | 50 | 26 |
| 272 | CKVL | 11049 | 158 | 50 | 26 |
| 273 | CKVL | 11179 | 158 | 50 | 26 |
| 274 | UDL | 11049 | 238 | 50 | 26 |
| 275 | UDL | 11179 | 238 | 50 | 26 |
| 276 | OEVL | 11049 | 318 | 50 | 26 |
| 277 | OEVL | 11179 | 318 | 50 | 26 |
| 278 | INVBRL | 11049 | 398 | 50 | 26 |
| 279 | INVBRL | 11179 | 398 | 50 | 26 |
| 280 | AVSS | 10914 | 405.5 | 30 | 45 |
| 281 | AVSS | 10864 | 405.5 | 30 | 45 |
| 282 | SHIELDING | 10814 | 405.5 | 30 | 45 |
| 283 | COM2_T | 10764 | 405.5 | 30 | 45 |
| 284 | COM2_T | 10714 | 405.5 | 30 | 45 |
| 285 | SHIELDING | 10664 | 405.5 | 30 | 45 |
| 286 | SO[1] | 10620.5 | 118 | 14 | 65 |
| 287 | SO[2] | 10603.5 | 258 | 14 | 65 |
| 288 | SO[3] | 10586.5 | 385.5 | 14 | 65 |
| 289 | SO[4] | 10569.5 | 118 | 14 | 65 |
| 290 | SO[5] | 10552.5 | 258 | 14 | 65 |
| 291 | SO[6] | 10535.5 | 385.5 | 14 | 65 |
| 292 | SO[7] | 10518.5 | 118 | 14 | 65 |
| 293 | SO[8] | 10501.5 | 258 | 14 | 65 |
| 294 | SO[9] | 10484.5 | 385.5 | 14 | 65 |
| 295 | SO[10] | 10467.5 | 118 | 14 | 65 |
| 296 | SO[11] | 10450.5 | 258 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 301 | SO[16] | 10365.5 | 118 | 14 | 65 |
| 302 | SO[17] | 10348.5 | 258 | 14 | 65 |
| 303 | SO[18] | 10331.5 | 385.5 | 14 | 65 |
| 304 | SO[19] | 10314.5 | 118 | 14 | 65 |
| 305 | SO[20] | 10297.5 | 258 | 14 | 65 |
| 306 | SO[21] | 10280.5 | 385.5 | 14 | 65 |
| 307 | SO[22] | 10263.5 | 118 | 14 | 65 |
| 308 | SO[23] | 10246.5 | 258 | 14 | 65 |
| 309 | SO[24] | 10229.5 | 385.5 | 14 | 65 |
| 310 | SO[25] | 10212.5 | 118 | 14 | 65 |
| 311 | SO[26] | 10195.5 | 258 | 14 | 65 |
| 312 | SO[27] | 10178.5 | 385.5 | 14 | 65 |
| 313 | SO[28] | 10161.5 | 118 | 14 | 65 |
| 314 | SO[29] | 10144.5 | 258 | 14 | 65 |
| 315 | SO[30] | 10127.5 | 385.5 | 14 | 65 |
| 316 | SO[31] | 10110.5 | 118 | 14 | 65 |
| 317 | SO[32] | 10093.5 | 258 | 14 | 65 |
| 318 | SO[33] | 10076.5 | 385.5 | 14 | 65 |
| 319 | SO[34] | 10059.5 | 118 | 14 | 65 |
| 320 | SO[35] | 10042.5 | 258 | 14 | 65 |
| 321 | SO[36] | 10025.5 | 385.5 | 14 | 65 |
| 322 | SO[37] | 10008.5 | 118 | 14 | 65 |
| 323 | SO[38] | 9991.5 | 258 | 14 | 65 |
| 324 | SO[39] | 9974.5 | 385.5 | 14 | 65 |
| 325 | SO[40] | 9957.5 | 118 | 14 | 65 |
| 326 | SO[41] | 9940.5 | 258 | 14 | 65 |
| 327 | SO[42] | 9923.5 | 385.5 | 14 | 65 |
| 328 | SO[43] | 9906.5 | 118 | 14 | 65 |
| 329 | SO[44] | 9889.5 | 258 | 14 | 65 |
| 330 | SO[45] | 9872.5 | 385.5 | 14 | 65 |
| 331 | SO[46] | 9855.5 | 118 | 14 | 65 |
| 332 | SO[47] | 9838.5 | 258 | 14 | 65 |
| 333 | SO[48] | 9821.5 | 385.5 | 14 | 65 |
| 334 | SO[49] | 9804.5 | 118 | 14 | 65 |
| 335 | SO[50] | 9787.5 | 258 | 14 | 65 |
| 336 | SO[51] | 9770.5 | 385.5 | 14 | 65 |
| 337 | SO[52] | 9753.5 | 118 | 14 | 65 |
| 338 | SO[53] | 9736.5 | 258 | 14 | 65 |
| 339 | SO[54] | 9719.5 | 385.5 | 14 | 65 |
| 340 | SO[55] | 9702.5 | 118 | 14 | 65 |
| 341 | SO[56] | 9685.5 | 258 | 14 | 65 |
| 342 | SO[57] | 9668.5 | 385.5 | 14 | 65 |
| 343 | SO[58] | 9651.5 | 118 | 14 | 65 |
| 344 | SO[59] | 9634.5 | 258 | 14 | 65 |
| 345 | SO[60] | 9617.5 | 385.5 | 14 | 65 |
| 346 | SO[61] | 9600.5 | 118 | 14 | 65 |
| 347 | SO[62] | 9583.5 | 258 | 14 | 65 |
| 348 | SO[63] | 9566.5 | 385.5 | 14 | 65 |
| 349 | SO[64] | 9549.5 | 118 | 14 | 65 |
| 350 | SO[65] | 9532.5 | 258 | 14 | 65 |
| 351 | SO[66] | 9515.5 | 385.5 | 14 | 65 |
| 352 | SO[67] | 9498.5 | 118 | 14 | 65 |
| 353 | SO[68] | 9481.5 | 258 | 14 | 65 |
| 354 | SO[69] | 9464.5 | 385.5 | 14 | 65 |
| 355 | SO[70] | 9447.5 | 118 | 14 | 65 |
| 356 | SO[71] | 9430.5 | 258 | 14 | 65 |

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|---|---|---|---|---|---|
| 297 | SO[12] | 10433.5 | 385.5 | 14 | 65 |
| 298 | SO[13] | 10416.5 | 118 | 14 | 65 |
| 299 | SO[14] | 10399.5 | 258 | 14 | 65 |
| 300 | SO[15] | 10382.5 | 385.5 | 14 | 65 |
| 357 | SO[72] | 9413.5 | 385.5 | 14 | 65 |
| 358 | SO[73] | 9396.5 | 118 | 14 | 65 |
| 359 | SO[74] | 9379.5 | 258 | 14 | 65 |
| 360 | SO[75] | 9362.5 | 385.5 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 361 | SO[76] | 9345.5 | 118 | 14 | 65 |
| 362 | SO[77] | 9328.5 | 258 | 14 | 65 |
| 363 | SO[78] | 9311.5 | 385.5 | 14 | 65 |
| 364 | SO[79] | 9294.5 | 118 | 14 | 65 |
| 365 | SO[80] | 9277.5 | 258 | 14 | 65 |
| 366 | SO[81] | 9260.5 | 385.5 | 14 | 65 |
| 367 | SO[82] | 9243.5 | 118 | 14 | 65 |
| 368 | SO[83] | 9226.5 | 258 | 14 | 65 |
| 369 | SO[84] | 9209.5 | 385.5 | 14 | 65 |
| 370 | SO[85] | 9192.5 | 118 | 14 | 65 |
| 371 | SO[86] | 9175.5 | 258 | 14 | 65 |
| 372 | SO[87] | 9158.5 | 385.5 | 14 | 65 |
| 373 | SO[88] | 9141.5 | 118 | 14 | 65 |
| 374 | SO[89] | 9124.5 | 258 | 14 | 65 |
| 375 | SO[90] | 9107.5 | 385.5 | 14 | 65 |
| 376 | SO[91] | 9090.5 | 118 | 14 | 65 |
| 377 | SO[92] | 9073.5 | 258 | 14 | 65 |
| 378 | SO[93] | 9056.5 | 385.5 | 14 | 65 |
| 379 | SO[94] | 9039.5 | 118 | 14 | 65 |
| 380 | SO[95] | 9022.5 | 258 | 14 | 65 |
| 381 | SO[96] | 9005.5 | 385.5 | 14 | 65 |
| 382 | SO[97] | 8988.5 | 118 | 14 | 65 |
| 383 | SO[98] | 8971.5 | 258 | 14 | 65 |
| 384 | SO[99] | 8954.5 | 385.5 | 14 | 65 |
| 385 | SO[100] | 8937.5 | 118 | 14 | 65 |
| 386 | SO[101] | 8920.5 | 258 | 14 | 65 |
| 387 | SO[102] | 8903.5 | 385.5 | 14 | 65 |
| 388 | SO[103] | 8886.5 | 118 | 14 | 65 |
| 389 | SO[104] | 8869.5 | 258 | 14 | 65 |
| 390 | SO[105] | 8852.5 | 385.5 | 14 | 65 |
| 391 | SO[106] | 8835.5 | 118 | 14 | 65 |
| 392 | SO[107] | 8818.5 | 258 | 14 | 65 |
| 393 | SO[108] | 8801.5 | 385.5 | 14 | 65 |
| 394 | SO[109] | 8784.5 | 118 | 14 | 65 |
| 395 | SO[110] | 8767.5 | 258 | 14 | 65 |
| 396 | SO[111] | 8750.5 | 385.5 | 14 | 65 |
| 397 | SO[112] | 8733.5 | 118 | 14 | 65 |
| 398 | SO[113] | 8716.5 | 258 | 14 | 65 |
| 399 | SO[114] | 8699.5 | 385.5 | 14 | 65 |
| 400 | SO[115] | 8682.5 | 118 | 14 | 65 |
| 401 | SO[116] | 8665.5 | 258 | 14 | 65 |
| 402 | SO[117] | 8648.5 | 385.5 | 14 | 65 |
| 403 | SO[118] | 8631.5 | 118 | 14 | 65 |
| 404 | SO[119] | 8614.5 | 258 | 14 | 65 |
| 405 | SO[120] | 8597.5 | 385.5 | 14 | 65 |
| 406 | SO[121] | 8580.5 | 118 | 14 | 65 |
| 407 | SO[122] | 8563.5 | 258 | 14 | 65 |
| 408 | SO[123] | 8546.5 | 385.5 | 14 | 65 |
| 409 | SO[124] | 8529.5 | 118 | 14 | 65 |
| 410 | SO[125] | 8512.5 | 258 | 14 | 65 |
| 411 | SO[126] | 8495.5 | 385.5 | 14 | 65 |
| 412 | SO[127] | 8478.5 | 118 | 14 | 65 |
| 413 | SO[128] | 8461.5 | 258 | 14 | 65 |
| 414 | SO[129] | 8444.5 | 385.5 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 421 | SO[136] | 8325.5 | 118 | 14 | 65 |
| 422 | SO[137] | 8308.5 | 258 | 14 | 65 |
| 423 | SO[138] | 8291.5 | 385.5 | 14 | 65 |
| 424 | SO[139] | 8274.5 | 118 | 14 | 65 |
| 425 | SO[140] | 8257.5 | 258 | 14 | 65 |
| 426 | SO[141] | 8240.5 | 385.5 | 14 | 65 |
| 427 | SO[142] | 8223.5 | 118 | 14 | 65 |
| 428 | SO[143] | 8206.5 | 258 | 14 | 65 |
| 429 | SO[144] | 8189.5 | 385.5 | 14 | 65 |
| 430 | SO[145] | 8172.5 | 118 | 14 | 65 |
| 431 | SO[146] | 8155.5 | 258 | 14 | 65 |
| 432 | SO[147] | 8138.5 | 385.5 | 14 | 65 |
| 433 | SO[148] | 8121.5 | 118 | 14 | 65 |
| 434 | SO[149] | 8104.5 | 258 | 14 | 65 |
| 435 | SO[150] | 8087.5 | 385.5 | 14 | 65 |
| 436 | SO[151] | 8070.5 | 118 | 14 | 65 |
| 437 | SO[152] | 8053.5 | 258 | 14 | 65 |
| 438 | SO[153] | 8036.5 | 385.5 | 14 | 65 |
| 439 | SO[154] | 8019.5 | 118 | 14 | 65 |
| 440 | SO[155] | 8002.5 | 258 | 14 | 65 |
| 441 | SO[156] | 7985.5 | 385.5 | 14 | 65 |
| 442 | SO[157] | 7968.5 | 118 | 14 | 65 |
| 443 | SO[158] | 7951.5 | 258 | 14 | 65 |
| 444 | SO[159] | 7934.5 | 385.5 | 14 | 65 |
| 445 | SO[160] | 7917.5 | 118 | 14 | 65 |
| 446 | SO[161] | 7900.5 | 258 | 14 | 65 |
| 447 | SO[162] | 7883.5 | 385.5 | 14 | 65 |
| 448 | SO[163] | 7866.5 | 118 | 14 | 65 |
| 449 | SO[164] | 7849.5 | 258 | 14 | 65 |
| 450 | SO[165] | 7832.5 | 385.5 | 14 | 65 |
| 451 | SO[166] | 7815.5 | 118 | 14 | 65 |
| 452 | SO[167] | 7798.5 | 258 | 14 | 65 |
| 453 | SO[168] | 7781.5 | 385.5 | 14 | 65 |
| 454 | SO[169] | 7764.5 | 118 | 14 | 65 |
| 455 | SO[170] | 7747.5 | 258 | 14 | 65 |
| 456 | SO[171] | 7730.5 | 385.5 | 14 | 65 |
| 457 | SO[172] | 7713.5 | 118 | 14 | 65 |
| 458 | SO[173] | 7696.5 | 258 | 14 | 65 |
| 459 | SO[174] | 7679.5 | 385.5 | 14 | 65 |
| 460 | SO[175] | 7662.5 | 118 | 14 | 65 |
| 461 | SO[176] | 7645.5 | 258 | 14 | 65 |
| 462 | SO[177] | 7628.5 | 385.5 | 14 | 65 |
| 463 | SO[178] | 7611.5 | 118 | 14 | 65 |
| 464 | SO[179] | 7594.5 | 258 | 14 | 65 |
| 465 | SO[180] | 7577.5 | 385.5 | 14 | 65 |
| 466 | SO[181] | 7560.5 | 118 | 14 | 65 |
| 467 | SO[182] | 7543.5 | 258 | 14 | 65 |
| 468 | SO[183] | 7526.5 | 385.5 | 14 | 65 |
| 469 | SO[184] | 7509.5 | 118 | 14 | 65 |
| 470 | SO[185] | 7492.5 | 258 | 14 | 65 |
| 471 | SO[186] | 7475.5 | 385.5 | 14 | 65 |
| 472 | SO[187] | 7458.5 | 118 | 14 | 65 |
| 473 | SO[188] | 7441.5 | 258 | 14 | 65 |
| 474 | SO[189] | 7424.5 | 385.5 | 14 | 65 |

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|---|---|---|---|---|---|
| 415 | SO[130] | 8427.5 | 118 | 14 | 65 |
| 416 | SO[131] | 8410.5 | 258 | 14 | 65 |
| 417 | SO[132] | 8393.5 | 385.5 | 14 | 65 |
| 418 | SO[133] | 8376.5 | 118 | 14 | 65 |
| 419 | SO[134] | 8359.5 | 258 | 14 | 65 |
| 420 | SO[135] | 8342.5 | 385.5 | 14 | 65 |

| | | | | | |
|---|---|---|---|---|---|
| 475 | SO[190] | 7407.5 | 118 | 14 | 65 |
| 476 | SO[191] | 7390.5 | 258 | 14 | 65 |
| 477 | SO[192] | 7373.5 | 385.5 | 14 | 65 |
| 478 | SO[193] | 7356.5 | 118 | 14 | 65 |
| 479 | SO[194] | 7339.5 | 258 | 14 | 65 |
| 480 | SO[195] | 7322.5 | 385.5 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 481 | SO[196] | 7305.5 | 118 | 14 | 65 |
| 482 | SO[197] | 7288.5 | 258 | 14 | 65 |
| 483 | SO[198] | 7271.5 | 385.5 | 14 | 65 |
| 484 | SO[199] | 7254.5 | 118 | 14 | 65 |
| 485 | SO[200] | 7237.5 | 258 | 14 | 65 |
| 486 | SO[201] | 7220.5 | 385.5 | 14 | 65 |
| 487 | SO[202] | 7203.5 | 118 | 14 | 65 |
| 488 | SO[203] | 7186.5 | 258 | 14 | 65 |
| 489 | SO[204] | 7169.5 | 385.5 | 14 | 65 |
| 490 | SO[205] | 7152.5 | 118 | 14 | 65 |
| 491 | SO[206] | 7135.5 | 258 | 14 | 65 |
| 492 | SO[207] | 7118.5 | 385.5 | 14 | 65 |
| 493 | SO[208] | 7101.5 | 118 | 14 | 65 |
| 494 | SO[209] | 7084.5 | 258 | 14 | 65 |
| 495 | SO[210] | 7067.5 | 385.5 | 14 | 65 |
| 496 | SO[211] | 7050.5 | 118 | 14 | 65 |
| 497 | SO[212] | 7033.5 | 258 | 14 | 65 |
| 498 | SO[213] | 7016.5 | 385.5 | 14 | 65 |
| 499 | SO[214] | 6999.5 | 118 | 14 | 65 |
| 500 | SO[215] | 6982.5 | 258 | 14 | 65 |
| 501 | SO[216] | 6965.5 | 385.5 | 14 | 65 |
| 502 | SO[217] | 6948.5 | 118 | 14 | 65 |
| 503 | SO[218] | 6931.5 | 258 | 14 | 65 |
| 504 | SO[219] | 6914.5 | 385.5 | 14 | 65 |
| 505 | SO[220] | 6897.5 | 118 | 14 | 65 |
| 506 | SO[221] | 6880.5 | 258 | 14 | 65 |
| 507 | SO[222] | 6863.5 | 385.5 | 14 | 65 |
| 508 | SO[223] | 6846.5 | 118 | 14 | 65 |
| 509 | SO[224] | 6829.5 | 258 | 14 | 65 |
| 510 | SO[225] | 6812.5 | 385.5 | 14 | 65 |
| 511 | SO[226] | 6795.5 | 118 | 14 | 65 |
| 512 | SO[227] | 6778.5 | 258 | 14 | 65 |
| 513 | SO[228] | 6761.5 | 385.5 | 14 | 65 |
| 514 | SO[229] | 6744.5 | 118 | 14 | 65 |
| 515 | SO[230] | 6727.5 | 258 | 14 | 65 |
| 516 | SO[231] | 6710.5 | 385.5 | 14 | 65 |
| 517 | SO[232] | 6693.5 | 118 | 14 | 65 |
| 518 | SO[233] | 6676.5 | 258 | 14 | 65 |
| 519 | SO[234] | 6659.5 | 385.5 | 14 | 65 |
| 520 | SO[235] | 6642.5 | 118 | 14 | 65 |
| 521 | SO[236] | 6625.5 | 258 | 14 | 65 |
| 522 | SO[237] | 6608.5 | 385.5 | 14 | 65 |
| 523 | SO[238] | 6591.5 | 118 | 14 | 65 |
| 524 | SO[239] | 6574.5 | 258 | 14 | 65 |
| 525 | SO[240] | 6557.5 | 385.5 | 14 | 65 |
| 526 | SO[241] | 6540.5 | 118 | 14 | 65 |
| 527 | SO[242] | 6523.5 | 258 | 14 | 65 |
| 528 | SO[243] | 6506.5 | 385.5 | 14 | 65 |
| 529 | SO[244] | 6489.5 | 118 | 14 | 65 |
| 530 | SO[245] | 6472.5 | 258 | 14 | 65 |
| 531 | SO[246] | 6455.5 | 385.5 | 14 | 65 |
| 532 | SO[247] | 6438.5 | 118 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 541 | SO[256] | 6285.5 | 118 | 14 | 65 |
| 542 | SO[257] | 6268.5 | 258 | 14 | 65 |
| 543 | SO[258] | 6251.5 | 385.5 | 14 | 65 |
| 544 | SO[259] | 6234.5 | 118 | 14 | 65 |
| 545 | SO[260] | 6217.5 | 258 | 14 | 65 |
| 546 | SO[261] | 6200.5 | 385.5 | 14 | 65 |
| 547 | SO[262] | 6183.5 | 118 | 14 | 65 |
| 548 | SO[263] | 6166.5 | 258 | 14 | 65 |
| 549 | SO[264] | 6149.5 | 385.5 | 14 | 65 |
| 550 | SO[265] | 6132.5 | 118 | 14 | 65 |
| 551 | SO[266] | 6115.5 | 258 | 14 | 65 |
| 552 | SO[267] | 6098.5 | 385.5 | 14 | 65 |
| 553 | SO[268] | 6081.5 | 118 | 14 | 65 |
| 554 | SO[269] | 6064.5 | 258 | 14 | 65 |
| 555 | SO[270] | 6047.5 | 385.5 | 14 | 65 |
| 556 | SO[271] | 6030.5 | 118 | 14 | 65 |
| 557 | SO[272] | 6013.5 | 258 | 14 | 65 |
| 558 | SO[273] | 5996.5 | 385.5 | 14 | 65 |
| 559 | SO[274] | 5979.5 | 118 | 14 | 65 |
| 560 | SO[275] | 5962.5 | 258 | 14 | 65 |
| 561 | SO[276] | 5945.5 | 385.5 | 14 | 65 |
| 562 | SO[277] | 5928.5 | 118 | 14 | 65 |
| 563 | SO[278] | 5911.5 | 258 | 14 | 65 |
| 564 | SO[279] | 5894.5 | 385.5 | 14 | 65 |
| 565 | SO[280] | 5877.5 | 118 | 14 | 65 |
| 566 | SO[281] | 5860.5 | 258 | 14 | 65 |
| 567 | SO[282] | 5843.5 | 385.5 | 14 | 65 |
| 568 | SO[283] | 5826.5 | 118 | 14 | 65 |
| 569 | SO[284] | 5809.5 | 258 | 14 | 65 |
| 570 | SO[285] | 5792.5 | 385.5 | 14 | 65 |
| 571 | SO[286] | 5775.5 | 118 | 14 | 65 |
| 572 | SO[287] | 5758.5 | 258 | 14 | 65 |
| 573 | SO[288] | 5741.5 | 385.5 | 14 | 65 |
| 574 | SO[289] | 5724.5 | 118 | 14 | 65 |
| 575 | SO[290] | 5707.5 | 258 | 14 | 65 |
| 576 | SO[291] | 5690.5 | 385.5 | 14 | 65 |
| 577 | SO[292] | 5673.5 | 118 | 14 | 65 |
| 578 | SO[293] | 5656.5 | 258 | 14 | 65 |
| 579 | SO[294] | 5639.5 | 385.5 | 14 | 65 |
| 580 | SO[295] | 5622.5 | 118 | 14 | 65 |
| 581 | SO[296] | 5605.5 | 258 | 14 | 65 |
| 582 | SO[297] | 5588.5 | 385.5 | 14 | 65 |
| 583 | SO[298] | 5571.5 | 118 | 14 | 65 |
| 584 | SO[299] | 5554.5 | 258 | 14 | 65 |
| 585 | SO[300] | 5537.5 | 385.5 | 14 | 65 |
| 586 | SO[301] | 5520.5 | 118 | 14 | 65 |
| 587 | SO[302] | 5503.5 | 258 | 14 | 65 |
| 588 | SO[303] | 5486.5 | 385.5 | 14 | 65 |
| 589 | SO[304] | 5469.5 | 118 | 14 | 65 |
| 590 | SO[305] | 5452.5 | 258 | 14 | 65 |
| 591 | SO[306] | 5435.5 | 385.5 | 14 | 65 |
| 592 | SO[307] | 5418.5 | 118 | 14 | 65 |

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|---|---|---|---|---|---|
| 533 | SO[248] | 6421.5 | 258 | 14 | 65 |
| 534 | SO[249] | 6404.5 | 385.5 | 14 | 65 |
| 535 | SO[250] | 6387.5 | 118 | 14 | 65 |
| 536 | SO[251] | 6370.5 | 258 | 14 | 65 |
| 537 | SO[252] | 6353.5 | 385.5 | 14 | 65 |
| 538 | SO[253] | 6336.5 | 118 | 14 | 65 |
| 539 | SO[254] | 6319.5 | 258 | 14 | 65 |
| 540 | SO[255] | 6302.5 | 385.5 | 14 | 65 |

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|---|---|---|---|---|---|
| 593 | SO[308] | 5401.5 | 258 | 14 | 65 |
| 594 | SO[309] | 5384.5 | 385.5 | 14 | 65 |
| 595 | SO[310] | 5367.5 | 118 | 14 | 65 |
| 596 | SO[311] | 5350.5 | 258 | 14 | 65 |
| 597 | SO[312] | 5333.5 | 385.5 | 14 | 65 |
| 598 | SO[313] | 5316.5 | 118 | 14 | 65 |
| 599 | SO[314] | 5299.5 | 258 | 14 | 65 |
| 600 | SO[315] | 5282.5 | 385.5 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 601 | SO[316] | 5265.5 | 118 | 14 | 65 |
| 602 | SO[317] | 5248.5 | 258 | 14 | 65 |
| 603 | SO[318] | 5231.5 | 385.5 | 14 | 65 |
| 604 | SO[319] | 5214.5 | 118 | 14 | 65 |
| 605 | SO[320] | 5197.5 | 258 | 14 | 65 |
| 606 | SO[321] | 5180.5 | 385.5 | 14 | 65 |
| 607 | SO[322] | 5163.5 | 118 | 14 | 65 |
| 608 | SO[323] | 5146.5 | 258 | 14 | 65 |
| 609 | SO[324] | 5129.5 | 385.5 | 14 | 65 |
| 610 | SO[325] | 5112.5 | 118 | 14 | 65 |
| 611 | SO[326] | 5095.5 | 258 | 14 | 65 |
| 612 | SO[327] | 5078.5 | 385.5 | 14 | 65 |
| 613 | SO[328] | 5061.5 | 118 | 14 | 65 |
| 614 | SO[329] | 5044.5 | 258 | 14 | 65 |
| 615 | SO[330] | 5027.5 | 385.5 | 14 | 65 |
| 616 | SO[331] | 5010.5 | 118 | 14 | 65 |
| 617 | SO[332] | 4993.5 | 258 | 14 | 65 |
| 618 | SO[333] | 4976.5 | 385.5 | 14 | 65 |
| 619 | SO[334] | 4959.5 | 118 | 14 | 65 |
| 620 | SO[335] | 4942.5 | 258 | 14 | 65 |
| 621 | SO[336] | 4925.5 | 385.5 | 14 | 65 |
| 622 | SO[337] | 4908.5 | 118 | 14 | 65 |
| 623 | SO[338] | 4891.5 | 258 | 14 | 65 |
| 624 | SO[339] | 4874.5 | 385.5 | 14 | 65 |
| 625 | SO[340] | 4857.5 | 118 | 14 | 65 |
| 626 | SO[341] | 4840.5 | 258 | 14 | 65 |
| 627 | SO[342] | 4823.5 | 385.5 | 14 | 65 |
| 628 | SO[343] | 4806.5 | 118 | 14 | 65 |
| 629 | SO[344] | 4789.5 | 258 | 14 | 65 |
| 630 | SO[345] | 4772.5 | 385.5 | 14 | 65 |
| 631 | SO[346] | 4755.5 | 118 | 14 | 65 |
| 632 | SO[347] | 4738.5 | 258 | 14 | 65 |
| 633 | SO[348] | 4721.5 | 385.5 | 14 | 65 |
| 634 | SO[349] | 4704.5 | 118 | 14 | 65 |
| 635 | SO[350] | 4687.5 | 258 | 14 | 65 |
| 636 | SO[351] | 4670.5 | 385.5 | 14 | 65 |
| 637 | SO[352] | 4653.5 | 118 | 14 | 65 |
| 638 | SO[353] | 4636.5 | 258 | 14 | 65 |
| 639 | SO[354] | 4619.5 | 385.5 | 14 | 65 |
| 640 | SO[355] | 4602.5 | 118 | 14 | 65 |
| 641 | SO[356] | 4585.5 | 258 | 14 | 65 |
| 642 | SO[357] | 4568.5 | 385.5 | 14 | 65 |
| 643 | SO[358] | 4551.5 | 118 | 14 | 65 |
| 644 | SO[359] | 4534.5 | 258 | 14 | 65 |
| 645 | SO[360] | 4517.5 | 385.5 | 14 | 65 |
| 646 | SO[361] | 4500.5 | 118 | 14 | 65 |
| 647 | SO[362] | 4483.5 | 258 | 14 | 65 |
| 648 | SO[363] | 4466.5 | 385.5 | 14 | 65 |
| 649 | SO[364] | 4449.5 | 118 | 14 | 65 |
| 650 | SO[365] | 4432.5 | 258 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 661 | SO[376] | 4245.5 | 118 | 14 | 65 |
| 662 | SO[377] | 4228.5 | 258 | 14 | 65 |
| 663 | SO[378] | 4211.5 | 385.5 | 14 | 65 |
| 664 | SO[379] | 4194.5 | 118 | 14 | 65 |
| 665 | SO[380] | 4177.5 | 258 | 14 | 65 |
| 666 | SO[381] | 4160.5 | 385.5 | 14 | 65 |
| 667 | SO[382] | 4143.5 | 118 | 14 | 65 |
| 668 | SO[383] | 4126.5 | 258 | 14 | 65 |
| 669 | SO[384] | 4109.5 | 385.5 | 14 | 65 |
| 670 | SO[385] | 4092.5 | 118 | 14 | 65 |
| 671 | SO[386] | 4075.5 | 258 | 14 | 65 |
| 672 | SO[387] | 4058.5 | 385.5 | 14 | 65 |
| 673 | SO[388] | 4041.5 | 118 | 14 | 65 |
| 674 | SO[389] | 4024.5 | 258 | 14 | 65 |
| 675 | SO[390] | 4007.5 | 385.5 | 14 | 65 |
| 676 | SO[391] | 3990.5 | 118 | 14 | 65 |
| 677 | SO[392] | 3973.5 | 258 | 14 | 65 |
| 678 | SO[393] | 3956.5 | 385.5 | 14 | 65 |
| 679 | SO[394] | 3939.5 | 118 | 14 | 65 |
| 680 | SO[395] | 3922.5 | 258 | 14 | 65 |
| 681 | SO[396] | 3905.5 | 385.5 | 14 | 65 |
| 682 | SO[397] | 3888.5 | 118 | 14 | 65 |
| 683 | SO[398] | 3871.5 | 258 | 14 | 65 |
| 684 | SO[399] | 3854.5 | 385.5 | 14 | 65 |
| 685 | SO[400] | 3837.5 | 118 | 14 | 65 |
| 686 | SO[401] | 3820.5 | 258 | 14 | 65 |
| 687 | SO[402] | 3803.5 | 385.5 | 14 | 65 |
| 688 | SO[403] | 3786.5 | 118 | 14 | 65 |
| 689 | SO[404] | 3769.5 | 258 | 14 | 65 |
| 690 | SO[405] | 3752.5 | 385.5 | 14 | 65 |
| 691 | SO[406] | 3735.5 | 118 | 14 | 65 |
| 692 | SO[407] | 3718.5 | 258 | 14 | 65 |
| 693 | SO[408] | 3701.5 | 385.5 | 14 | 65 |
| 694 | SO[409] | 3684.5 | 118 | 14 | 65 |
| 695 | SO[410] | 3667.5 | 258 | 14 | 65 |
| 696 | SO[411] | 3650.5 | 385.5 | 14 | 65 |
| 697 | SO[412] | 3633.5 | 118 | 14 | 65 |
| 698 | SO[413] | 3616.5 | 258 | 14 | 65 |
| 699 | SO[414] | 3599.5 | 385.5 | 14 | 65 |
| 700 | SO[415] | 3582.5 | 118 | 14 | 65 |
| 701 | SO[416] | 3565.5 | 258 | 14 | 65 |
| 702 | SO[417] | 3548.5 | 385.5 | 14 | 65 |
| 703 | SO[418] | 3531.5 | 118 | 14 | 65 |
| 704 | SO[419] | 3514.5 | 258 | 14 | 65 |
| 705 | SO[420] | 3497.5 | 385.5 | 14 | 65 |
| 706 | SO[421] | 3480.5 | 118 | 14 | 65 |
| 707 | SO[422] | 3463.5 | 258 | 14 | 65 |
| 708 | SO[423] | 3446.5 | 385.5 | 14 | 65 |
| 709 | SO[424] | 3429.5 | 118 | 14 | 65 |
| 710 | SO[425] | 3412.5 | 258 | 14 | 65 |

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|---|---|---|---|---|---|
| 651 | SO[366] | 4415.5 | 385.5 | 14 | 65 |
| 652 | SO[367] | 4398.5 | 118 | 14 | 65 |
| 653 | SO[368] | 4381.5 | 258 | 14 | 65 |
| 654 | SO[369] | 4364.5 | 385.5 | 14 | 65 |
| 655 | SO[370] | 4347.5 | 118 | 14 | 65 |
| 656 | SO[371] | 4330.5 | 258 | 14 | 65 |
| 657 | SO[372] | 4313.5 | 385.5 | 14 | 65 |
| 658 | SO[373] | 4296.5 | 118 | 14 | 65 |
| 659 | SO[374] | 4279.5 | 258 | 14 | 65 |
| 660 | SO[375] | 4262.5 | 385.5 | 14 | 65 |
| 711 | SO[426] | 3395.5 | 385.5 | 14 | 65 |
| 712 | SO[427] | 3378.5 | 118 | 14 | 65 |
| 713 | SO[428] | 3361.5 | 258 | 14 | 65 |
| 714 | SO[429] | 3344.5 | 385.5 | 14 | 65 |
| 715 | SO[430] | 3327.5 | 118 | 14 | 65 |
| 716 | SO[431] | 3310.5 | 258 | 14 | 65 |
| 717 | SO[432] | 3293.5 | 385.5 | 14 | 65 |
| 718 | SO[433] | 3276.5 | 118 | 14 | 65 |
| 719 | SO[434] | 3259.5 | 258 | 14 | 65 |
| 720 | SO[435] | 3242.5 | 385.5 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 721 | SO[436] | 3225.5 | 118 | 14 | 65 |
| 722 | SO[437] | 3208.5 | 258 | 14 | 65 |
| 723 | SO[438] | 3191.5 | 385.5 | 14 | 65 |
| 724 | SO[439] | 3174.5 | 118 | 14 | 65 |
| 725 | SO[440] | 3157.5 | 258 | 14 | 65 |
| 726 | SO[441] | 3140.5 | 385.5 | 14 | 65 |
| 727 | SO[442] | 3123.5 | 118 | 14 | 65 |
| 728 | SO[443] | 3106.5 | 258 | 14 | 65 |
| 729 | SO[444] | 3089.5 | 385.5 | 14 | 65 |
| 730 | SO[445] | 3072.5 | 118 | 14 | 65 |
| 731 | SO[446] | 3055.5 | 258 | 14 | 65 |
| 732 | SO[447] | 3038.5 | 385.5 | 14 | 65 |
| 733 | SO[448] | 3021.5 | 118 | 14 | 65 |
| 734 | SO[449] | 3004.5 | 258 | 14 | 65 |
| 735 | SO[450] | 2987.5 | 385.5 | 14 | 65 |
| 736 | SO[451] | 2970.5 | 118 | 14 | 65 |
| 737 | SO[452] | 2953.5 | 258 | 14 | 65 |
| 738 | SO[453] | 2936.5 | 385.5 | 14 | 65 |
| 739 | SO[454] | 2919.5 | 118 | 14 | 65 |
| 740 | SO[455] | 2902.5 | 258 | 14 | 65 |
| 741 | SO[456] | 2885.5 | 385.5 | 14 | 65 |
| 742 | SO[457] | 2868.5 | 118 | 14 | 65 |
| 743 | SO[458] | 2851.5 | 258 | 14 | 65 |
| 744 | SO[459] | 2834.5 | 385.5 | 14 | 65 |
| 745 | SO[460] | 2817.5 | 118 | 14 | 65 |
| 746 | SO[461] | 2800.5 | 258 | 14 | 65 |
| 747 | SO[462] | 2783.5 | 385.5 | 14 | 65 |
| 748 | SO[463] | 2766.5 | 118 | 14 | 65 |
| 749 | SO[464] | 2749.5 | 258 | 14 | 65 |
| 750 | SO[465] | 2732.5 | 385.5 | 14 | 65 |
| 751 | SO[466] | 2715.5 | 118 | 14 | 65 |
| 752 | SO[467] | 2698.5 | 258 | 14 | 65 |
| 753 | SO[468] | 2681.5 | 385.5 | 14 | 65 |
| 754 | SO[469] | 2664.5 | 118 | 14 | 65 |
| 755 | SO[470] | 2647.5 | 258 | 14 | 65 |
| 756 | SO[471] | 2630.5 | 385.5 | 14 | 65 |
| 757 | SO[472] | 2613.5 | 118 | 14 | 65 |
| 758 | SO[473] | 2596.5 | 258 | 14 | 65 |
| 759 | SO[474] | 2579.5 | 385.5 | 14 | 65 |
| 760 | SO[475] | 2562.5 | 118 | 14 | 65 |
| 761 | SO[476] | 2545.5 | 258 | 14 | 65 |
| 762 | SO[477] | 2528.5 | 385.5 | 14 | 65 |
| 763 | SO[478] | 2511.5 | 118 | 14 | 65 |
| 764 | SO[479] | 2494.5 | 258 | 14 | 65 |
| 765 | SO[480] | 2477.5 | 385.5 | 14 | 65 |
| 766 | SO[481] | 2460.5 | 118 | 14 | 65 |
| 767 | SO[482] | 2443.5 | 258 | 14 | 65 |
| 768 | SO[483] | 2426.5 | 385.5 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 781 | SO[496] | 2205.5 | 118 | 14 | 65 |
| 782 | SO[497] | 2188.5 | 258 | 14 | 65 |
| 783 | SO[498] | 2171.5 | 385.5 | 14 | 65 |
| 784 | SO[499] | 2154.5 | 118 | 14 | 65 |
| 785 | SO[500] | 2137.5 | 258 | 14 | 65 |
| 786 | SO[501] | 2120.5 | 385.5 | 14 | 65 |
| 787 | SO[502] | 2103.5 | 118 | 14 | 65 |
| 788 | SO[503] | 2086.5 | 258 | 14 | 65 |
| 789 | SO[504] | 2069.5 | 385.5 | 14 | 65 |
| 790 | SO[505] | 2052.5 | 118 | 14 | 65 |
| 791 | SO[506] | 2035.5 | 258 | 14 | 65 |
| 792 | SO[507] | 2018.5 | 385.5 | 14 | 65 |
| 793 | SO[508] | 2001.5 | 118 | 14 | 65 |
| 794 | SO[509] | 1984.5 | 258 | 14 | 65 |
| 795 | SO[510] | 1967.5 | 385.5 | 14 | 65 |
| 796 | SO[511] | 1950.5 | 118 | 14 | 65 |
| 797 | SO[512] | 1933.5 | 258 | 14 | 65 |
| 798 | SO[513] | 1916.5 | 385.5 | 14 | 65 |
| 799 | SO[514] | 1899.5 | 118 | 14 | 65 |
| 800 | SO[515] | 1882.5 | 258 | 14 | 65 |
| 801 | SO[516] | 1865.5 | 385.5 | 14 | 65 |
| 802 | SO[517] | 1848.5 | 118 | 14 | 65 |
| 803 | SO[518] | 1831.5 | 258 | 14 | 65 |
| 804 | SO[519] | 1814.5 | 385.5 | 14 | 65 |
| 805 | SO[520] | 1797.5 | 118 | 14 | 65 |
| 806 | SO[521] | 1780.5 | 258 | 14 | 65 |
| 807 | SO[522] | 1763.5 | 385.5 | 14 | 65 |
| 808 | SO[523] | 1746.5 | 118 | 14 | 65 |
| 809 | SO[524] | 1729.5 | 258 | 14 | 65 |
| 810 | SO[525] | 1712.5 | 385.5 | 14 | 65 |
| 811 | SO[526] | 1695.5 | 118 | 14 | 65 |
| 812 | SO[527] | 1678.5 | 258 | 14 | 65 |
| 813 | SO[528] | 1661.5 | 385.5 | 14 | 65 |
| 814 | SO[529] | 1644.5 | 118 | 14 | 65 |
| 815 | SO[530] | 1627.5 | 258 | 14 | 65 |
| 816 | SO[531] | 1610.5 | 385.5 | 14 | 65 |
| 817 | SO[532] | 1593.5 | 118 | 14 | 65 |
| 818 | SO[533] | 1576.5 | 258 | 14 | 65 |
| 819 | SO[534] | 1559.5 | 385.5 | 14 | 65 |
| 820 | SO[535] | 1542.5 | 118 | 14 | 65 |
| 821 | SO[536] | 1525.5 | 258 | 14 | 65 |
| 822 | SO[537] | 1508.5 | 385.5 | 14 | 65 |
| 823 | SO[538] | 1491.5 | 118 | 14 | 65 |
| 824 | SO[539] | 1474.5 | 258 | 14 | 65 |
| 825 | SO[540] | 1457.5 | 385.5 | 14 | 65 |
| 826 | SO[541] | 1440.5 | 118 | 14 | 65 |
| 827 | SO[542] | 1423.5 | 258 | 14 | 65 |
| 828 | SO[543] | 1406.5 | 385.5 | 14 | 65 |

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|---|---|---|---|---|---|
| 769 | SO[484] | 2409.5 | 118 | 14 | 65 |
| 770 | SO[485] | 2392.5 | 258 | 14 | 65 |
| 771 | SO[486] | 2375.5 | 385.5 | 14 | 65 |
| 772 | SO[487] | 2358.5 | 118 | 14 | 65 |
| 773 | SO[488] | 2341.5 | 258 | 14 | 65 |
| 774 | SO[489] | 2324.5 | 385.5 | 14 | 65 |
| 775 | SO[490] | 2307.5 | 118 | 14 | 65 |
| 776 | SO[491] | 2290.5 | 258 | 14 | 65 |
| 777 | SO[492] | 2273.5 | 385.5 | 14 | 65 |
| 778 | SO[493] | 2256.5 | 118 | 14 | 65 |
| 779 | SO[494] | 2239.5 | 258 | 14 | 65 |
| 780 | SO[495] | 2222.5 | 385.5 | 14 | 65 |

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|---|---|---|---|---|---|
| 829 | SO[544] | 1389.5 | 118 | 14 | 65 |
| 830 | SO[545] | 1372.5 | 258 | 14 | 65 |
| 831 | SO[546] | 1355.5 | 385.5 | 14 | 65 |
| 832 | SO[547] | 1338.5 | 118 | 14 | 65 |
| 833 | SO[548] | 1321.5 | 258 | 14 | 65 |
| 834 | SO[549] | 1304.5 | 385.5 | 14 | 65 |
| 835 | SO[550] | 1287.5 | 118 | 14 | 65 |
| 836 | SO[551] | 1270.5 | 258 | 14 | 65 |
| 837 | SO[552] | 1253.5 | 385.5 | 14 | 65 |
| 838 | SO[553] | 1236.5 | 118 | 14 | 65 |
| 839 | SO[554] | 1219.5 | 258 | 14 | 65 |
| 840 | SO[555] | 1202.5 | 385.5 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 841 | SO[556] | 1185.5 | 118 | 14 | 65 |
| 842 | SO[557] | 1168.5 | 258 | 14 | 65 |
| 843 | SO[558] | 1151.5 | 385.5 | 14 | 65 |
| 844 | SO[559] | 1134.5 | 118 | 14 | 65 |
| 845 | SO[560] | 1117.5 | 258 | 14 | 65 |
| 846 | SO[561] | 1100.5 | 385.5 | 14 | 65 |
| 847 | SO[562] | 1083.5 | 118 | 14 | 65 |
| 848 | SO[563] | 1066.5 | 258 | 14 | 65 |
| 849 | SO[564] | 1049.5 | 385.5 | 14 | 65 |
| 850 | SO[565] | 1032.5 | 118 | 14 | 65 |
| 851 | SO[566] | 1015.5 | 258 | 14 | 65 |
| 852 | SO[567] | 998.5 | 385.5 | 14 | 65 |
| 853 | SO[568] | 981.5 | 118 | 14 | 65 |
| 854 | SO[569] | 964.5 | 258 | 14 | 65 |
| 855 | SO[570] | 947.5 | 385.5 | 14 | 65 |
| 856 | SO[571] | 930.5 | 118 | 14 | 65 |
| 857 | SO[572] | 913.5 | 258 | 14 | 65 |
| 858 | SO[573] | 896.5 | 385.5 | 14 | 65 |
| 859 | SO[574] | 879.5 | 118 | 14 | 65 |
| 860 | SO[575] | 862.5 | 258 | 14 | 65 |
| 861 | SO[576] | 845.5 | 385.5 | 14 | 65 |
| 862 | SO[577] | 828.5 | 118 | 14 | 65 |
| 863 | SO[578] | 811.5 | 258 | 14 | 65 |
| 864 | SO[579] | 794.5 | 385.5 | 14 | 65 |
| 865 | SO[580] | 777.5 | 118 | 14 | 65 |
| 866 | SO[581] | 760.5 | 258 | 14 | 65 |
| 867 | SO[582] | 743.5 | 385.5 | 14 | 65 |
| 868 | SO[583] | 726.5 | 118 | 14 | 65 |
| 869 | SO[584] | 709.5 | 258 | 14 | 65 |
| 870 | SO[585] | 692.5 | 385.5 | 14 | 65 |
| 871 | SO[586] | 675.5 | 118 | 14 | 65 |
| 872 | SO[587] | 658.5 | 258 | 14 | 65 |
| 873 | SO[588] | 641.5 | 385.5 | 14 | 65 |
| 874 | SO[589] | 624.5 | 118 | 14 | 65 |
| 875 | SO[590] | 607.5 | 258 | 14 | 65 |
| 876 | SO[591] | 590.5 | 385.5 | 14 | 65 |
| 877 | SO[592] | 573.5 | 118 | 14 | 65 |
| 878 | SO[593] | 556.5 | 258 | 14 | 65 |
| 879 | SO[594] | 539.5 | 385.5 | 14 | 65 |
| 880 | SO[595] | 522.5 | 118 | 14 | 65 |
| 881 | SO[596] | 505.5 | 258 | 14 | 65 |
| 882 | SO[597] | 488.5 | 385.5 | 14 | 65 |
| 883 | SO[598] | 471.5 | 118 | 14 | 65 |
| 884 | SO[599] | 454.5 | 258 | 14 | 65 |
| 885 | SO[600] | 437.5 | 385.5 | 14 | 65 |
| 886 | SHIELDING | 403.5 | 385.5 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 901 | SO[604] | -488.5 | 385.5 | 14 | 65 |
| 902 | SO[605] | -505.5 | 258 | 14 | 65 |
| 903 | SO[606] | -522.5 | 118 | 14 | 65 |
| 904 | SO[607] | -539.5 | 385.5 | 14 | 65 |
| 905 | SO[608] | -556.5 | 258 | 14 | 65 |
| 906 | SO[609] | -573.5 | 118 | 14 | 65 |
| 907 | SO[610] | -590.5 | 385.5 | 14 | 65 |
| 908 | SO[611] | -607.5 | 258 | 14 | 65 |
| 909 | SO[612] | -624.5 | 118 | 14 | 65 |
| 910 | SO[613] | -641.5 | 385.5 | 14 | 65 |
| 911 | SO[614] | -658.5 | 258 | 14 | 65 |
| 912 | SO[615] | -675.5 | 118 | 14 | 65 |
| 913 | SO[616] | -692.5 | 385.5 | 14 | 65 |
| 914 | SO[617] | -709.5 | 258 | 14 | 65 |
| 915 | SO[618] | -726.5 | 118 | 14 | 65 |
| 916 | SO[619] | -743.5 | 385.5 | 14 | 65 |
| 917 | SO[620] | -760.5 | 258 | 14 | 65 |
| 918 | SO[621] | -777.5 | 118 | 14 | 65 |
| 919 | SO[622] | -794.5 | 385.5 | 14 | 65 |
| 920 | SO[623] | -811.5 | 258 | 14 | 65 |
| 921 | SO[624] | -828.5 | 118 | 14 | 65 |
| 922 | SO[625] | -845.5 | 385.5 | 14 | 65 |
| 923 | SO[626] | -862.5 | 258 | 14 | 65 |
| 924 | SO[627] | -879.5 | 118 | 14 | 65 |
| 925 | SO[628] | -896.5 | 385.5 | 14 | 65 |
| 926 | SO[629] | -913.5 | 258 | 14 | 65 |
| 927 | SO[630] | -930.5 | 118 | 14 | 65 |
| 928 | SO[631] | -947.5 | 385.5 | 14 | 65 |
| 929 | SO[632] | -964.5 | 258 | 14 | 65 |
| 930 | SO[633] | -981.5 | 118 | 14 | 65 |
| 931 | SO[634] | -998.5 | 385.5 | 14 | 65 |
| 932 | SO[635] | -1015.5 | 258 | 14 | 65 |
| 933 | SO[636] | -1032.5 | 118 | 14 | 65 |
| 934 | SO[637] | -1049.5 | 385.5 | 14 | 65 |
| 935 | SO[638] | -1066.5 | 258 | 14 | 65 |
| 936 | SO[639] | -1083.5 | 118 | 14 | 65 |
| 937 | SO[640] | -1100.5 | 385.5 | 14 | 65 |
| 938 | SO[641] | -1117.5 | 258 | 14 | 65 |
| 939 | SO[642] | -1134.5 | 118 | 14 | 65 |
| 940 | SO[643] | -1151.5 | 385.5 | 14 | 65 |
| 941 | SO[644] | -1168.5 | 258 | 14 | 65 |
| 942 | SO[645] | -1185.5 | 118 | 14 | 65 |
| 943 | SO[646] | -1202.5 | 385.5 | 14 | 65 |
| 944 | SO[647] | -1219.5 | 258 | 14 | 65 |
| 945 | SO[648] | -1236.5 | 118 | 14 | 65 |
| 946 | SO[649] | -1253.5 | 385.5 | 14 | 65 |

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| | | | | | |
|---|---|---|---|---|---|
| 887 | SHIELDING | 369.5 | 385.5 | 14 | 65 |
| 888 | SHIELDING | 335.5 | 385.5 | 14 | 65 |
| 889 | SHIELDING | 301.5 | 385.5 | 14 | 65 |
| 890 | SHIELDING | 267.5 | 385.5 | 14 | 65 |
| 891 | SHIELDING | 233.5 | 385.5 | 14 | 65 |
| 892 | SHIELDING | -233.5 | 385.5 | 14 | 65 |
| 893 | SHIELDING | -267.5 | 385.5 | 14 | 65 |
| 894 | SHIELDING | -301.5 | 385.5 | 14 | 65 |
| 895 | SHIELDING | -335.5 | 385.5 | 14 | 65 |
| 896 | SHIELDING | -369.5 | 385.5 | 14 | 65 |
| 897 | SHIELDING | -403.5 | 385.5 | 14 | 65 |
| 898 | SO[601] | -437.5 | 385.5 | 14 | 65 |
| 899 | SO[602] | -454.5 | 258 | 14 | 65 |
| 900 | SO[603] | -471.5 | 118 | 14 | 65 |

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|---|---|---|---|---|---|
| 947 | SO[650] | -1270.5 | 258 | 14 | 65 |
| 948 | SO[651] | -1287.5 | 118 | 14 | 65 |
| 949 | SO[652] | -1304.5 | 385.5 | 14 | 65 |
| 950 | SO[653] | -1321.5 | 258 | 14 | 65 |
| 951 | SO[654] | -1338.5 | 118 | 14 | 65 |
| 952 | SO[655] | -1355.5 | 385.5 | 14 | 65 |
| 953 | SO[656] | -1372.5 | 258 | 14 | 65 |
| 954 | SO[657] | -1389.5 | 118 | 14 | 65 |
| 955 | SO[658] | -1406.5 | 385.5 | 14 | 65 |
| 956 | SO[659] | -1423.5 | 258 | 14 | 65 |
| 957 | SO[660] | -1440.5 | 118 | 14 | 65 |
| 958 | SO[661] | -1457.5 | 385.5 | 14 | 65 |
| 959 | SO[662] | -1474.5 | 258 | 14 | 65 |
| 960 | SO[663] | -1491.5 | 118 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 961 | SO[664] | -1508.5 | 385.5 | 14 | 65 |
| 962 | SO[665] | -1525.5 | 258 | 14 | 65 |
| 963 | SO[666] | -1542.5 | 118 | 14 | 65 |
| 964 | SO[667] | -1559.5 | 385.5 | 14 | 65 |
| 965 | SO[668] | -1576.5 | 258 | 14 | 65 |
| 966 | SO[669] | -1593.5 | 118 | 14 | 65 |
| 967 | SO[670] | -1610.5 | 385.5 | 14 | 65 |
| 968 | SO[671] | -1627.5 | 258 | 14 | 65 |
| 969 | SO[672] | -1644.5 | 118 | 14 | 65 |
| 970 | SO[673] | -1661.5 | 385.5 | 14 | 65 |
| 971 | SO[674] | -1678.5 | 258 | 14 | 65 |
| 972 | SO[675] | -1695.5 | 118 | 14 | 65 |
| 973 | SO[676] | -1712.5 | 385.5 | 14 | 65 |
| 974 | SO[677] | -1729.5 | 258 | 14 | 65 |
| 975 | SO[678] | -1746.5 | 118 | 14 | 65 |
| 976 | SO[679] | -1763.5 | 385.5 | 14 | 65 |
| 977 | SO[680] | -1780.5 | 258 | 14 | 65 |
| 978 | SO[681] | -1797.5 | 118 | 14 | 65 |
| 979 | SO[682] | -1814.5 | 385.5 | 14 | 65 |
| 980 | SO[683] | -1831.5 | 258 | 14 | 65 |
| 981 | SO[684] | -1848.5 | 118 | 14 | 65 |
| 982 | SO[685] | -1865.5 | 385.5 | 14 | 65 |
| 983 | SO[686] | -1882.5 | 258 | 14 | 65 |
| 984 | SO[687] | -1899.5 | 118 | 14 | 65 |
| 985 | SO[688] | -1916.5 | 385.5 | 14 | 65 |
| 986 | SO[689] | -1933.5 | 258 | 14 | 65 |
| 987 | SO[690] | -1950.5 | 118 | 14 | 65 |
| 988 | SO[691] | -1967.5 | 385.5 | 14 | 65 |
| 989 | SO[692] | -1984.5 | 258 | 14 | 65 |
| 990 | SO[693] | -2001.5 | 118 | 14 | 65 |
| 991 | SO[694] | -2018.5 | 385.5 | 14 | 65 |
| 992 | SO[695] | -2035.5 | 258 | 14 | 65 |
| 993 | SO[696] | -2052.5 | 118 | 14 | 65 |
| 994 | SO[697] | -2069.5 | 385.5 | 14 | 65 |
| 995 | SO[698] | -2086.5 | 258 | 14 | 65 |
| 996 | SO[699] | -2103.5 | 118 | 14 | 65 |
| 997 | SO[700] | -2120.5 | 385.5 | 14 | 65 |
| 998 | SO[701] | -2137.5 | 258 | 14 | 65 |
| 999 | SO[702] | -2154.5 | 118 | 14 | 65 |
| 1000 | SO[703] | -2171.5 | 385.5 | 14 | 65 |
| 1001 | SO[704] | -2188.5 | 258 | 14 | 65 |
| 1002 | SO[705] | -2205.5 | 118 | 14 | 65 |
| 1003 | SO[706] | -2222.5 | 385.5 | 14 | 65 |
| 1004 | SO[707] | -2239.5 | 258 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 1021 | SO[724] | -2528.5 | 385.5 | 14 | 65 |
| 1022 | SO[725] | -2545.5 | 258 | 14 | 65 |
| 1023 | SO[726] | -2562.5 | 118 | 14 | 65 |
| 1024 | SO[727] | -2579.5 | 385.5 | 14 | 65 |
| 1025 | SO[728] | -2596.5 | 258 | 14 | 65 |
| 1026 | SO[729] | -2613.5 | 118 | 14 | 65 |
| 1027 | SO[730] | -2630.5 | 385.5 | 14 | 65 |
| 1028 | SO[731] | -2647.5 | 258 | 14 | 65 |
| 1029 | SO[732] | -2664.5 | 118 | 14 | 65 |
| 1030 | SO[733] | -2681.5 | 385.5 | 14 | 65 |
| 1031 | SO[734] | -2698.5 | 258 | 14 | 65 |
| 1032 | SO[735] | -2715.5 | 118 | 14 | 65 |
| 1033 | SO[736] | -2732.5 | 385.5 | 14 | 65 |
| 1034 | SO[737] | -2749.5 | 258 | 14 | 65 |
| 1035 | SO[738] | -2766.5 | 118 | 14 | 65 |
| 1036 | SO[739] | -2783.5 | 385.5 | 14 | 65 |
| 1037 | SO[740] | -2800.5 | 258 | 14 | 65 |
| 1038 | SO[741] | -2817.5 | 118 | 14 | 65 |
| 1039 | SO[742] | -2834.5 | 385.5 | 14 | 65 |
| 1040 | SO[743] | -2851.5 | 258 | 14 | 65 |
| 1041 | SO[744] | -2868.5 | 118 | 14 | 65 |
| 1042 | SO[745] | -2885.5 | 385.5 | 14 | 65 |
| 1043 | SO[746] | -2902.5 | 258 | 14 | 65 |
| 1044 | SO[747] | -2919.5 | 118 | 14 | 65 |
| 1045 | SO[748] | -2936.5 | 385.5 | 14 | 65 |
| 1046 | SO[749] | -2953.5 | 258 | 14 | 65 |
| 1047 | SO[750] | -2970.5 | 118 | 14 | 65 |
| 1048 | SO[751] | -2987.5 | 385.5 | 14 | 65 |
| 1049 | SO[752] | -3004.5 | 258 | 14 | 65 |
| 1050 | SO[753] | -3021.5 | 118 | 14 | 65 |
| 1051 | SO[754] | -3038.5 | 385.5 | 14 | 65 |
| 1052 | SO[755] | -3055.5 | 258 | 14 | 65 |
| 1053 | SO[756] | -3072.5 | 118 | 14 | 65 |
| 1054 | SO[757] | -3089.5 | 385.5 | 14 | 65 |
| 1055 | SO[758] | -3106.5 | 258 | 14 | 65 |
| 1056 | SO[759] | -3123.5 | 118 | 14 | 65 |
| 1057 | SO[760] | -3140.5 | 385.5 | 14 | 65 |
| 1058 | SO[761] | -3157.5 | 258 | 14 | 65 |
| 1059 | SO[762] | -3174.5 | 118 | 14 | 65 |
| 1060 | SO[763] | -3191.5 | 385.5 | 14 | 65 |
| 1061 | SO[764] | -3208.5 | 258 | 14 | 65 |
| 1062 | SO[765] | -3225.5 | 118 | 14 | 65 |
| 1063 | SO[766] | -3242.5 | 385.5 | 14 | 65 |
| 1064 | SO[767] | -3259.5 | 258 | 14 | 65 |

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| | | | | | |
|---|---|---|---|---|---|
| 1005 | SO[708] | -2256.5 | 118 | 14 | 65 |
| 1006 | SO[709] | -2273.5 | 385.5 | 14 | 65 |
| 1007 | SO[710] | -2290.5 | 258 | 14 | 65 |
| 1008 | SO[711] | -2307.5 | 118 | 14 | 65 |
| 1009 | SO[712] | -2324.5 | 385.5 | 14 | 65 |
| 1010 | SO[713] | -2341.5 | 258 | 14 | 65 |
| 1011 | SO[714] | -2358.5 | 118 | 14 | 65 |
| 1012 | SO[715] | -2375.5 | 385.5 | 14 | 65 |
| 1013 | SO[716] | -2392.5 | 258 | 14 | 65 |
| 1014 | SO[717] | -2409.5 | 118 | 14 | 65 |
| 1015 | SO[718] | -2426.5 | 385.5 | 14 | 65 |
| 1016 | SO[719] | -2443.5 | 258 | 14 | 65 |
| 1017 | SO[720] | -2460.5 | 118 | 14 | 65 |
| 1018 | SO[721] | -2477.5 | 385.5 | 14 | 65 |
| 1019 | SO[722] | -2494.5 | 258 | 14 | 65 |
| 1020 | SO[723] | -2511.5 | 118 | 14 | 65 |

| | | | | | |
|---|---|---|---|---|---|
| 1065 | SO[768] | -3276.5 | 118 | 14 | 65 |
| 1066 | SO[769] | -3293.5 | 385.5 | 14 | 65 |
| 1067 | SO[770] | -3310.5 | 258 | 14 | 65 |
| 1068 | SO[771] | -3327.5 | 118 | 14 | 65 |
| 1069 | SO[772] | -3344.5 | 385.5 | 14 | 65 |
| 1070 | SO[773] | -3361.5 | 258 | 14 | 65 |
| 1071 | SO[774] | -3378.5 | 118 | 14 | 65 |
| 1072 | SO[775] | -3395.5 | 385.5 | 14 | 65 |
| 1073 | SO[776] | -3412.5 | 258 | 14 | 65 |
| 1074 | SO[777] | -3429.5 | 118 | 14 | 65 |
| 1075 | SO[778] | -3446.5 | 385.5 | 14 | 65 |
| 1076 | SO[779] | -3463.5 | 258 | 14 | 65 |
| 1077 | SO[780] | -3480.5 | 118 | 14 | 65 |
| 1078 | SO[781] | -3497.5 | 385.5 | 14 | 65 |
| 1079 | SO[782] | -3514.5 | 258 | 14 | 65 |
| 1080 | SO[783] | -3531.5 | 118 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 1081 | SO[784] | -3548.5 | 385.5 | 14 | 65 |
| 1082 | SO[785] | -3565.5 | 258 | 14 | 65 |
| 1083 | SO[786] | -3582.5 | 118 | 14 | 65 |
| 1084 | SO[787] | -3599.5 | 385.5 | 14 | 65 |
| 1085 | SO[788] | -3616.5 | 258 | 14 | 65 |
| 1086 | SO[789] | -3633.5 | 118 | 14 | 65 |
| 1087 | SO[790] | -3650.5 | 385.5 | 14 | 65 |
| 1088 | SO[791] | -3667.5 | 258 | 14 | 65 |
| 1089 | SO[792] | -3684.5 | 118 | 14 | 65 |
| 1090 | SO[793] | -3701.5 | 385.5 | 14 | 65 |
| 1091 | SO[794] | -3718.5 | 258 | 14 | 65 |
| 1092 | SO[795] | -3735.5 | 118 | 14 | 65 |
| 1093 | SO[796] | -3752.5 | 385.5 | 14 | 65 |
| 1094 | SO[797] | -3769.5 | 258 | 14 | 65 |
| 1095 | SO[798] | -3786.5 | 118 | 14 | 65 |
| 1096 | SO[799] | -3803.5 | 385.5 | 14 | 65 |
| 1097 | SO[800] | -3820.5 | 258 | 14 | 65 |
| 1098 | SO[801] | -3837.5 | 118 | 14 | 65 |
| 1099 | SO[802] | -3854.5 | 385.5 | 14 | 65 |
| 1100 | SO[803] | -3871.5 | 258 | 14 | 65 |
| 1101 | SO[804] | -3888.5 | 118 | 14 | 65 |
| 1102 | SO[805] | -3905.5 | 385.5 | 14 | 65 |
| 1103 | SO[806] | -3922.5 | 258 | 14 | 65 |
| 1104 | SO[807] | -3939.5 | 118 | 14 | 65 |
| 1105 | SO[808] | -3956.5 | 385.5 | 14 | 65 |
| 1106 | SO[809] | -3973.5 | 258 | 14 | 65 |
| 1107 | SO[810] | -3990.5 | 118 | 14 | 65 |
| 1108 | SO[811] | -4007.5 | 385.5 | 14 | 65 |
| 1109 | SO[812] | -4024.5 | 258 | 14 | 65 |
| 1110 | SO[813] | -4041.5 | 118 | 14 | 65 |
| 1111 | SO[814] | -4058.5 | 385.5 | 14 | 65 |
| 1112 | SO[815] | -4075.5 | 258 | 14 | 65 |
| 1113 | SO[816] | -4092.5 | 118 | 14 | 65 |
| 1114 | SO[817] | -4109.5 | 385.5 | 14 | 65 |
| 1115 | SO[818] | -4126.5 | 258 | 14 | 65 |
| 1116 | SO[819] | -4143.5 | 118 | 14 | 65 |
| 1117 | SO[820] | -4160.5 | 385.5 | 14 | 65 |
| 1118 | SO[821] | -4177.5 | 258 | 14 | 65 |
| 1119 | SO[822] | -4194.5 | 118 | 14 | 65 |
| 1120 | SO[823] | -4211.5 | 385.5 | 14 | 65 |
| 1121 | SO[824] | -4228.5 | 258 | 14 | 65 |
| 1122 | SO[825] | -4245.5 | 118 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 1141 | SO[844] | -4568.5 | 385.5 | 14 | 65 |
| 1142 | SO[845] | -4585.5 | 258 | 14 | 65 |
| 1143 | SO[846] | -4602.5 | 118 | 14 | 65 |
| 1144 | SO[847] | -4619.5 | 385.5 | 14 | 65 |
| 1145 | SO[848] | -4636.5 | 258 | 14 | 65 |
| 1146 | SO[849] | -4653.5 | 118 | 14 | 65 |
| 1147 | SO[850] | -4670.5 | 385.5 | 14 | 65 |
| 1148 | SO[851] | -4687.5 | 258 | 14 | 65 |
| 1149 | SO[852] | -4704.5 | 118 | 14 | 65 |
| 1150 | SO[853] | -4721.5 | 385.5 | 14 | 65 |
| 1151 | SO[854] | -4738.5 | 258 | 14 | 65 |
| 1152 | SO[855] | -4755.5 | 118 | 14 | 65 |
| 1153 | SO[856] | -4772.5 | 385.5 | 14 | 65 |
| 1154 | SO[857] | -4789.5 | 258 | 14 | 65 |
| 1155 | SO[858] | -4806.5 | 118 | 14 | 65 |
| 1156 | SO[859] | -4823.5 | 385.5 | 14 | 65 |
| 1157 | SO[860] | -4840.5 | 258 | 14 | 65 |
| 1158 | SO[861] | -4857.5 | 118 | 14 | 65 |
| 1159 | SO[862] | -4874.5 | 385.5 | 14 | 65 |
| 1160 | SO[863] | -4891.5 | 258 | 14 | 65 |
| 1161 | SO[864] | -4908.5 | 118 | 14 | 65 |
| 1162 | SO[865] | -4925.5 | 385.5 | 14 | 65 |
| 1163 | SO[866] | -4942.5 | 258 | 14 | 65 |
| 1164 | SO[867] | -4959.5 | 118 | 14 | 65 |
| 1165 | SO[868] | -4976.5 | 385.5 | 14 | 65 |
| 1166 | SO[869] | -4993.5 | 258 | 14 | 65 |
| 1167 | SO[870] | -5010.5 | 118 | 14 | 65 |
| 1168 | SO[871] | -5027.5 | 385.5 | 14 | 65 |
| 1169 | SO[872] | -5044.5 | 258 | 14 | 65 |
| 1170 | SO[873] | -5061.5 | 118 | 14 | 65 |
| 1171 | SO[874] | -5078.5 | 385.5 | 14 | 65 |
| 1172 | SO[875] | -5095.5 | 258 | 14 | 65 |
| 1173 | SO[876] | -5112.5 | 118 | 14 | 65 |
| 1174 | SO[877] | -5129.5 | 385.5 | 14 | 65 |
| 1175 | SO[878] | -5146.5 | 258 | 14 | 65 |
| 1176 | SO[879] | -5163.5 | 118 | 14 | 65 |
| 1177 | SO[880] | -5180.5 | 385.5 | 14 | 65 |
| 1178 | SO[881] | -5197.5 | 258 | 14 | 65 |
| 1179 | SO[882] | -5214.5 | 118 | 14 | 65 |
| 1180 | SO[883] | -5231.5 | 385.5 | 14 | 65 |
| 1181 | SO[884] | -5248.5 | 258 | 14 | 65 |
| 1182 | SO[885] | -5265.5 | 118 | 14 | 65 |

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|---|---|---|---|---|---|
| 1123 | SO[826] | -4262.5 | 385.5 | 14 | 65 |
| 1124 | SO[827] | -4279.5 | 258 | 14 | 65 |
| 1125 | SO[828] | -4296.5 | 118 | 14 | 65 |
| 1126 | SO[829] | -4313.5 | 385.5 | 14 | 65 |
| 1127 | SO[830] | -4330.5 | 258 | 14 | 65 |
| 1128 | SO[831] | -4347.5 | 118 | 14 | 65 |
| 1129 | SO[832] | -4364.5 | 385.5 | 14 | 65 |
| 1130 | SO[833] | -4381.5 | 258 | 14 | 65 |
| 1131 | SO[834] | -4398.5 | 118 | 14 | 65 |
| 1132 | SO[835] | -4415.5 | 385.5 | 14 | 65 |
| 1133 | SO[836] | -4432.5 | 258 | 14 | 65 |
| 1134 | SO[837] | -4449.5 | 118 | 14 | 65 |
| 1135 | SO[838] | -4466.5 | 385.5 | 14 | 65 |
| 1136 | SO[839] | -4483.5 | 258 | 14 | 65 |
| 1137 | SO[840] | -4500.5 | 118 | 14 | 65 |
| 1138 | SO[841] | -4517.5 | 385.5 | 14 | 65 |
| 1139 | SO[842] | -4534.5 | 258 | 14 | 65 |
| 1140 | SO[843] | -4551.5 | 118 | 14 | 65 |

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|---|---|---|---|---|---|
| 1183 | SO[886] | -5282.5 | 385.5 | 14 | 65 |
| 1184 | SO[887] | -5299.5 | 258 | 14 | 65 |
| 1185 | SO[888] | -5316.5 | 118 | 14 | 65 |
| 1186 | SO[889] | -5333.5 | 385.5 | 14 | 65 |
| 1187 | SO[890] | -5350.5 | 258 | 14 | 65 |
| 1188 | SO[891] | -5367.5 | 118 | 14 | 65 |
| 1189 | SO[892] | -5384.5 | 385.5 | 14 | 65 |
| 1190 | SO[893] | -5401.5 | 258 | 14 | 65 |
| 1191 | SO[894] | -5418.5 | 118 | 14 | 65 |
| 1192 | SO[895] | -5435.5 | 385.5 | 14 | 65 |
| 1193 | SO[896] | -5452.5 | 258 | 14 | 65 |
| 1194 | SO[897] | -5469.5 | 118 | 14 | 65 |
| 1195 | SO[898] | -5486.5 | 385.5 | 14 | 65 |
| 1196 | SO[899] | -5503.5 | 258 | 14 | 65 |
| 1197 | SO[900] | -5520.5 | 118 | 14 | 65 |
| 1198 | SO[901] | -5537.5 | 385.5 | 14 | 65 |
| 1199 | SO[902] | -5554.5 | 258 | 14 | 65 |
| 1200 | SO[903] | -5571.5 | 118 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 1201 | SO[904] | -5588.5 | 385.5 | 14 | 65 |
| 1202 | SO[905] | -5605.5 | 258 | 14 | 65 |
| 1203 | SO[906] | -5622.5 | 118 | 14 | 65 |
| 1204 | SO[907] | -5639.5 | 385.5 | 14 | 65 |
| 1205 | SO[908] | -5656.5 | 258 | 14 | 65 |
| 1206 | SO[909] | -5673.5 | 118 | 14 | 65 |
| 1207 | SO[910] | -5690.5 | 385.5 | 14 | 65 |
| 1208 | SO[911] | -5707.5 | 258 | 14 | 65 |
| 1209 | SO[912] | -5724.5 | 118 | 14 | 65 |
| 1210 | SO[913] | -5741.5 | 385.5 | 14 | 65 |
| 1211 | SO[914] | -5758.5 | 258 | 14 | 65 |
| 1212 | SO[915] | -5775.5 | 118 | 14 | 65 |
| 1213 | SO[916] | -5792.5 | 385.5 | 14 | 65 |
| 1214 | SO[917] | -5809.5 | 258 | 14 | 65 |
| 1215 | SO[918] | -5826.5 | 118 | 14 | 65 |
| 1216 | SO[919] | -5843.5 | 385.5 | 14 | 65 |
| 1217 | SO[920] | -5860.5 | 258 | 14 | 65 |
| 1218 | SO[921] | -5877.5 | 118 | 14 | 65 |
| 1219 | SO[922] | -5894.5 | 385.5 | 14 | 65 |
| 1220 | SO[923] | -5911.5 | 258 | 14 | 65 |
| 1221 | SO[924] | -5928.5 | 118 | 14 | 65 |
| 1222 | SO[925] | -5945.5 | 385.5 | 14 | 65 |
| 1223 | SO[926] | -5962.5 | 258 | 14 | 65 |
| 1224 | SO[927] | -5979.5 | 118 | 14 | 65 |
| 1225 | SO[928] | -5996.5 | 385.5 | 14 | 65 |
| 1226 | SO[929] | -6013.5 | 258 | 14 | 65 |
| 1227 | SO[930] | -6030.5 | 118 | 14 | 65 |
| 1228 | SO[931] | -6047.5 | 385.5 | 14 | 65 |
| 1229 | SO[932] | -6064.5 | 258 | 14 | 65 |
| 1230 | SO[933] | -6081.5 | 118 | 14 | 65 |
| 1231 | SO[934] | -6098.5 | 385.5 | 14 | 65 |
| 1232 | SO[935] | -6115.5 | 258 | 14 | 65 |
| 1233 | SO[936] | -6132.5 | 118 | 14 | 65 |
| 1234 | SO[937] | -6149.5 | 385.5 | 14 | 65 |
| 1235 | SO[938] | -6166.5 | 258 | 14 | 65 |
| 1236 | SO[939] | -6183.5 | 118 | 14 | 65 |
| 1237 | SO[940] | -6200.5 | 385.5 | 14 | 65 |
| 1238 | SO[941] | -6217.5 | 258 | 14 | 65 |
| 1239 | SO[942] | -6234.5 | 118 | 14 | 65 |
| 1240 | SO[943] | -6251.5 | 385.5 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 1261 | SO[964] | -6608.5 | 385.5 | 14 | 65 |
| 1262 | SO[965] | -6625.5 | 258 | 14 | 65 |
| 1263 | SO[966] | -6642.5 | 118 | 14 | 65 |
| 1264 | SO[967] | -6659.5 | 385.5 | 14 | 65 |
| 1265 | SO[968] | -6676.5 | 258 | 14 | 65 |
| 1266 | SO[969] | -6693.5 | 118 | 14 | 65 |
| 1267 | SO[970] | -6710.5 | 385.5 | 14 | 65 |
| 1268 | SO[971] | -6727.5 | 258 | 14 | 65 |
| 1269 | SO[972] | -6744.5 | 118 | 14 | 65 |
| 1270 | SO[973] | -6761.5 | 385.5 | 14 | 65 |
| 1271 | SO[974] | -6778.5 | 258 | 14 | 65 |
| 1272 | SO[975] | -6795.5 | 118 | 14 | 65 |
| 1273 | SO[976] | -6812.5 | 385.5 | 14 | 65 |
| 1274 | SO[977] | -6829.5 | 258 | 14 | 65 |
| 1275 | SO[978] | -6846.5 | 118 | 14 | 65 |
| 1276 | SO[979] | -6863.5 | 385.5 | 14 | 65 |
| 1277 | SO[980] | -6880.5 | 258 | 14 | 65 |
| 1278 | SO[981] | -6897.5 | 118 | 14 | 65 |
| 1279 | SO[982] | -6914.5 | 385.5 | 14 | 65 |
| 1280 | SO[983] | -6931.5 | 258 | 14 | 65 |
| 1281 | SO[984] | -6948.5 | 118 | 14 | 65 |
| 1282 | SO[985] | -6965.5 | 385.5 | 14 | 65 |
| 1283 | SO[986] | -6982.5 | 258 | 14 | 65 |
| 1284 | SO[987] | -6999.5 | 118 | 14 | 65 |
| 1285 | SO[988] | -7016.5 | 385.5 | 14 | 65 |
| 1286 | SO[989] | -7033.5 | 258 | 14 | 65 |
| 1287 | SO[990] | -7050.5 | 118 | 14 | 65 |
| 1288 | SO[991] | -7067.5 | 385.5 | 14 | 65 |
| 1289 | SO[992] | -7084.5 | 258 | 14 | 65 |
| 1290 | SO[993] | -7101.5 | 118 | 14 | 65 |
| 1291 | SO[994] | -7118.5 | 385.5 | 14 | 65 |
| 1292 | SO[995] | -7135.5 | 258 | 14 | 65 |
| 1293 | SO[996] | -7152.5 | 118 | 14 | 65 |
| 1294 | SO[997] | -7169.5 | 385.5 | 14 | 65 |
| 1295 | SO[998] | -7186.5 | 258 | 14 | 65 |
| 1296 | SO[999] | -7203.5 | 118 | 14 | 65 |
| 1297 | SO[1000] | -7220.5 | 385.5 | 14 | 65 |
| 1298 | SO[1001] | -7237.5 | 258 | 14 | 65 |
| 1299 | SO[1002] | -7254.5 | 118 | 14 | 65 |
| 1300 | SO[1003] | -7271.5 | 385.5 | 14 | 65 |

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|---|---|---|---|---|---|
| 1241 | SO[944] | -6268.5 | 258 | 14 | 65 |
| 1242 | SO[945] | -6285.5 | 118 | 14 | 65 |
| 1243 | SO[946] | -6302.5 | 385.5 | 14 | 65 |
| 1244 | SO[947] | -6319.5 | 258 | 14 | 65 |
| 1245 | SO[948] | -6336.5 | 118 | 14 | 65 |
| 1246 | SO[949] | -6353.5 | 385.5 | 14 | 65 |
| 1247 | SO[950] | -6370.5 | 258 | 14 | 65 |
| 1248 | SO[951] | -6387.5 | 118 | 14 | 65 |
| 1249 | SO[952] | -6404.5 | 385.5 | 14 | 65 |
| 1250 | SO[953] | -6421.5 | 258 | 14 | 65 |
| 1251 | SO[954] | -6438.5 | 118 | 14 | 65 |
| 1252 | SO[955] | -6455.5 | 385.5 | 14 | 65 |
| 1253 | SO[956] | -6472.5 | 258 | 14 | 65 |
| 1254 | SO[957] | -6489.5 | 118 | 14 | 65 |
| 1255 | SO[958] | -6506.5 | 385.5 | 14 | 65 |
| 1256 | SO[959] | -6523.5 | 258 | 14 | 65 |
| 1257 | SO[960] | -6540.5 | 118 | 14 | 65 |
| 1258 | SO[961] | -6557.5 | 385.5 | 14 | 65 |
| 1259 | SO[962] | -6574.5 | 258 | 14 | 65 |
| 1260 | SO[963] | -6591.5 | 118 | 14 | 65 |

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|---|---|---|---|---|---|
| 1301 | SO[1004] | -7288.5 | 258 | 14 | 65 |
| 1302 | SO[1005] | -7305.5 | 118 | 14 | 65 |
| 1303 | SO[1006] | -7322.5 | 385.5 | 14 | 65 |
| 1304 | SO[1007] | -7339.5 | 258 | 14 | 65 |
| 1305 | SO[1008] | -7356.5 | 118 | 14 | 65 |
| 1306 | SO[1009] | -7373.5 | 385.5 | 14 | 65 |
| 1307 | SO[1010] | -7390.5 | 258 | 14 | 65 |
| 1308 | SO[1011] | -7407.5 | 118 | 14 | 65 |
| 1309 | SO[1012] | -7424.5 | 385.5 | 14 | 65 |
| 1310 | SO[1013] | -7441.5 | 258 | 14 | 65 |
| 1311 | SO[1014] | -7458.5 | 118 | 14 | 65 |
| 1312 | SO[1015] | -7475.5 | 385.5 | 14 | 65 |
| 1313 | SO[1016] | -7492.5 | 258 | 14 | 65 |
| 1314 | SO[1017] | -7509.5 | 118 | 14 | 65 |
| 1315 | SO[1018] | -7526.5 | 385.5 | 14 | 65 |
| 1316 | SO[1019] | -7543.5 | 258 | 14 | 65 |
| 1317 | SO[1020] | -7560.5 | 118 | 14 | 65 |
| 1318 | SO[1021] | -7577.5 | 385.5 | 14 | 65 |
| 1319 | SO[1022] | -7594.5 | 258 | 14 | 65 |
| 1320 | SO[1023] | -7611.5 | 118 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 1321 | SO[1024] | -7628.5 | 385.5 | 14 | 65 |
| 1322 | SO[1025] | -7645.5 | 258 | 14 | 65 |
| 1323 | SO[1026] | -7662.5 | 118 | 14 | 65 |
| 1324 | SO[1027] | -7679.5 | 385.5 | 14 | 65 |
| 1325 | SO[1028] | -7696.5 | 258 | 14 | 65 |
| 1326 | SO[1029] | -7713.5 | 118 | 14 | 65 |
| 1327 | SO[1030] | -7730.5 | 385.5 | 14 | 65 |
| 1328 | SO[1031] | -7747.5 | 258 | 14 | 65 |
| 1329 | SO[1032] | -7764.5 | 118 | 14 | 65 |
| 1330 | SO[1033] | -7781.5 | 385.5 | 14 | 65 |
| 1331 | SO[1034] | -7798.5 | 258 | 14 | 65 |
| 1332 | SO[1035] | -7815.5 | 118 | 14 | 65 |
| 1333 | SO[1036] | -7832.5 | 385.5 | 14 | 65 |
| 1334 | SO[1037] | -7849.5 | 258 | 14 | 65 |
| 1335 | SO[1038] | -7866.5 | 118 | 14 | 65 |
| 1336 | SO[1039] | -7883.5 | 385.5 | 14 | 65 |
| 1337 | SO[1040] | -7900.5 | 258 | 14 | 65 |
| 1338 | SO[1041] | -7917.5 | 118 | 14 | 65 |
| 1339 | SO[1042] | -7934.5 | 385.5 | 14 | 65 |
| 1340 | SO[1043] | -7951.5 | 258 | 14 | 65 |
| 1341 | SO[1044] | -7968.5 | 118 | 14 | 65 |
| 1342 | SO[1045] | -7985.5 | 385.5 | 14 | 65 |
| 1343 | SO[1046] | -8002.5 | 258 | 14 | 65 |
| 1344 | SO[1047] | -8019.5 | 118 | 14 | 65 |
| 1345 | SO[1048] | -8036.5 | 385.5 | 14 | 65 |
| 1346 | SO[1049] | -8053.5 | 258 | 14 | 65 |
| 1347 | SO[1050] | -8070.5 | 118 | 14 | 65 |
| 1348 | SO[1051] | -8087.5 | 385.5 | 14 | 65 |
| 1349 | SO[1052] | -8104.5 | 258 | 14 | 65 |
| 1350 | SO[1053] | -8121.5 | 118 | 14 | 65 |
| 1351 | SO[1054] | -8138.5 | 385.5 | 14 | 65 |
| 1352 | SO[1055] | -8155.5 | 258 | 14 | 65 |
| 1353 | SO[1056] | -8172.5 | 118 | 14 | 65 |
| 1354 | SO[1057] | -8189.5 | 385.5 | 14 | 65 |
| 1355 | SO[1058] | -8206.5 | 258 | 14 | 65 |
| 1356 | SO[1059] | -8223.5 | 118 | 14 | 65 |
| 1357 | SO[1060] | -8240.5 | 385.5 | 14 | 65 |
| 1358 | SO[1061] | -8257.5 | 258 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 1381 | SO[1084] | -8648.5 | 385.5 | 14 | 65 |
| 1382 | SO[1085] | -8665.5 | 258 | 14 | 65 |
| 1383 | SO[1086] | -8682.5 | 118 | 14 | 65 |
| 1384 | SO[1087] | -8699.5 | 385.5 | 14 | 65 |
| 1385 | SO[1088] | -8716.5 | 258 | 14 | 65 |
| 1386 | SO[1089] | -8733.5 | 118 | 14 | 65 |
| 1387 | SO[1090] | -8750.5 | 385.5 | 14 | 65 |
| 1388 | SO[1091] | -8767.5 | 258 | 14 | 65 |
| 1389 | SO[1092] | -8784.5 | 118 | 14 | 65 |
| 1390 | SO[1093] | -8801.5 | 385.5 | 14 | 65 |
| 1391 | SO[1094] | -8818.5 | 258 | 14 | 65 |
| 1392 | SO[1095] | -8835.5 | 118 | 14 | 65 |
| 1393 | SO[1096] | -8852.5 | 385.5 | 14 | 65 |
| 1394 | SO[1097] | -8869.5 | 258 | 14 | 65 |
| 1395 | SO[1098] | -8886.5 | 118 | 14 | 65 |
| 1396 | SO[1099] | -8903.5 | 385.5 | 14 | 65 |
| 1397 | SO[1100] | -8920.5 | 258 | 14 | 65 |
| 1398 | SO[1101] | -8937.5 | 118 | 14 | 65 |
| 1399 | SO[1102] | -8954.5 | 385.5 | 14 | 65 |
| 1400 | SO[1103] | -8971.5 | 258 | 14 | 65 |
| 1401 | SO[1104] | -8988.5 | 118 | 14 | 65 |
| 1402 | SO[1105] | -9005.5 | 385.5 | 14 | 65 |
| 1403 | SO[1106] | -9022.5 | 258 | 14 | 65 |
| 1404 | SO[1107] | -9039.5 | 118 | 14 | 65 |
| 1405 | SO[1108] | -9056.5 | 385.5 | 14 | 65 |
| 1406 | SO[1109] | -9073.5 | 258 | 14 | 65 |
| 1407 | SO[1110] | -9090.5 | 118 | 14 | 65 |
| 1408 | SO[1111] | -9107.5 | 385.5 | 14 | 65 |
| 1409 | SO[1112] | -9124.5 | 258 | 14 | 65 |
| 1410 | SO[1113] | -9141.5 | 118 | 14 | 65 |
| 1411 | SO[1114] | -9158.5 | 385.5 | 14 | 65 |
| 1412 | SO[1115] | -9175.5 | 258 | 14 | 65 |
| 1413 | SO[1116] | -9192.5 | 118 | 14 | 65 |
| 1414 | SO[1117] | -9209.5 | 385.5 | 14 | 65 |
| 1415 | SO[1118] | -9226.5 | 258 | 14 | 65 |
| 1416 | SO[1119] | -9243.5 | 118 | 14 | 65 |
| 1417 | SO[1120] | -9260.5 | 385.5 | 14 | 65 |
| 1418 | SO[1121] | -9277.5 | 258 | 14 | 65 |

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|---|---|---|---|---|---|
| 1359 | SO[1062] | -8274.5 | 118 | 14 | 65 |
| 1360 | SO[1063] | -8291.5 | 385.5 | 14 | 65 |
| 1361 | SO[1064] | -8308.5 | 258 | 14 | 65 |
| 1362 | SO[1065] | -8325.5 | 118 | 14 | 65 |
| 1363 | SO[1066] | -8342.5 | 385.5 | 14 | 65 |
| 1364 | SO[1067] | -8359.5 | 258 | 14 | 65 |
| 1365 | SO[1068] | -8376.5 | 118 | 14 | 65 |
| 1366 | SO[1069] | -8393.5 | 385.5 | 14 | 65 |
| 1367 | SO[1070] | -8410.5 | 258 | 14 | 65 |
| 1368 | SO[1071] | -8427.5 | 118 | 14 | 65 |
| 1369 | SO[1072] | -8444.5 | 385.5 | 14 | 65 |
| 1370 | SO[1073] | -8461.5 | 258 | 14 | 65 |
| 1371 | SO[1074] | -8478.5 | 118 | 14 | 65 |
| 1372 | SO[1075] | -8495.5 | 385.5 | 14 | 65 |
| 1373 | SO[1076] | -8512.5 | 258 | 14 | 65 |
| 1374 | SO[1077] | -8529.5 | 118 | 14 | 65 |
| 1375 | SO[1078] | -8546.5 | 385.5 | 14 | 65 |
| 1376 | SO[1079] | -8563.5 | 258 | 14 | 65 |
| 1377 | SO[1080] | -8580.5 | 118 | 14 | 65 |
| 1378 | SO[1081] | -8597.5 | 385.5 | 14 | 65 |
| 1379 | SO[1082] | -8614.5 | 258 | 14 | 65 |
| 1380 | SO[1083] | -8631.5 | 118 | 14 | 65 |

| | | | | | |
|---|---|---|---|---|---|
| 1419 | SO[1122] | -9294.5 | 118 | 14 | 65 |
| 1420 | SO[1123] | -9311.5 | 385.5 | 14 | 65 |
| 1421 | SO[1124] | -9328.5 | 258 | 14 | 65 |
| 1422 | SO[1125] | -9345.5 | 118 | 14 | 65 |
| 1423 | SO[1126] | -9362.5 | 385.5 | 14 | 65 |
| 1424 | SO[1127] | -9379.5 | 258 | 14 | 65 |
| 1425 | SO[1128] | -9396.5 | 118 | 14 | 65 |
| 1426 | SO[1129] | -9413.5 | 385.5 | 14 | 65 |
| 1427 | SO[1130] | -9430.5 | 258 | 14 | 65 |
| 1428 | SO[1131] | -9447.5 | 118 | 14 | 65 |
| 1429 | SO[1132] | -9464.5 | 385.5 | 14 | 65 |
| 1430 | SO[1133] | -9481.5 | 258 | 14 | 65 |
| 1431 | SO[1134] | -9498.5 | 118 | 14 | 65 |
| 1432 | SO[1135] | -9515.5 | 385.5 | 14 | 65 |
| 1433 | SO[1136] | -9532.5 | 258 | 14 | 65 |
| 1434 | SO[1137] | -9549.5 | 118 | 14 | 65 |
| 1435 | SO[1138] | -9566.5 | 385.5 | 14 | 65 |
| 1436 | SO[1139] | -9583.5 | 258 | 14 | 65 |
| 1437 | SO[1140] | -9600.5 | 118 | 14 | 65 |
| 1438 | SO[1141] | -9617.5 | 385.5 | 14 | 65 |
| 1439 | SO[1142] | -9634.5 | 258 | 14 | 65 |
| 1440 | SO[1143] | -9651.5 | 118 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 1441 | SO[1144] | -9668.5 | 385.5 | 14 | 65 |
| 1442 | SO[1145] | -9685.5 | 258 | 14 | 65 |
| 1443 | SO[1146] | -9702.5 | 118 | 14 | 65 |
| 1444 | SO[1147] | -9719.5 | 385.5 | 14 | 65 |
| 1445 | SO[1148] | -9736.5 | 258 | 14 | 65 |
| 1446 | SO[1149] | -9753.5 | 118 | 14 | 65 |
| 1447 | SO[1150] | -9770.5 | 385.5 | 14 | 65 |
| 1448 | SO[1151] | -9787.5 | 258 | 14 | 65 |
| 1449 | SO[1152] | -9804.5 | 118 | 14 | 65 |
| 1450 | SO[1153] | -9821.5 | 385.5 | 14 | 65 |
| 1451 | SO[1154] | -9838.5 | 258 | 14 | 65 |
| 1452 | SO[1155] | -9855.5 | 118 | 14 | 65 |
| 1453 | SO[1156] | -9872.5 | 385.5 | 14 | 65 |
| 1454 | SO[1157] | -9889.5 | 258 | 14 | 65 |
| 1455 | SO[1158] | -9906.5 | 118 | 14 | 65 |
| 1456 | SO[1159] | -9923.5 | 385.5 | 14 | 65 |
| 1457 | SO[1160] | -9940.5 | 258 | 14 | 65 |
| 1458 | SO[1161] | -9957.5 | 118 | 14 | 65 |
| 1459 | SO[1162] | -9974.5 | 385.5 | 14 | 65 |
| 1460 | SO[1163] | -9991.5 | 258 | 14 | 65 |
| 1461 | SO[1164] | -10008.5 | 118 | 14 | 65 |
| 1462 | SO[1165] | -10025.5 | 385.5 | 14 | 65 |
| 1463 | SO[1166] | -10042.5 | 258 | 14 | 65 |
| 1464 | SO[1167] | -10059.5 | 118 | 14 | 65 |
| 1465 | SO[1168] | -10076.5 | 385.5 | 14 | 65 |
| 1466 | SO[1169] | -10093.5 | 258 | 14 | 65 |
| 1467 | SO[1170] | -10110.5 | 118 | 14 | 65 |
| 1468 | SO[1171] | -10127.5 | 385.5 | 14 | 65 |
| 1469 | SO[1172] | -10144.5 | 258 | 14 | 65 |
| 1470 | SO[1173] | -10161.5 | 118 | 14 | 65 |
| 1471 | SO[1174] | -10178.5 | 385.5 | 14 | 65 |
| 1472 | SO[1175] | -10195.5 | 258 | 14 | 65 |
| 1473 | SO[1176] | -10212.5 | 118 | 14 | 65 |
| 1474 | SO[1177] | -10229.5 | 385.5 | 14 | 65 |
| 1475 | SO[1178] | -10246.5 | 258 | 14 | 65 |
| 1476 | SO[1179] | -10263.5 | 118 | 14 | 65 |

| PAD No. | PAD Name | X-axis | Y-axis | W | H |
|---|---|---|---|---|---|
| 1501 | SHIELDING | -10814 | 405.5 | 30 | 45 |
| 1502 | AVSS | -10864 | 405.5 | 30 | 45 |
| 1503 | AVSS | -10914 | 405.5 | 30 | 45 |
| 1504 | OEVR | -11049 | 318 | 50 | 26 |
| 1505 | INVBRR | -11179 | 398 | 50 | 26 |
| 1506 | INVBRR | -11049 | 398 | 50 | 26 |
| 1507 | OEVR | -11179 | 318 | 50 | 26 |
| 1508 | UDR | -11179 | 238 | 50 | 26 |
| 1509 | UDR | -11049 | 238 | 50 | 26 |
| 1510 | CKVR | -11179 | 158 | 50 | 26 |
| 1511 | CKVR | -11049 | 158 | 50 | 26 |
| 1512 | STV1R | -11179 | 78 | 50 | 26 |
| 1513 | STV1R | -11049 | 78 | 50 | 26 |
| 1514 | STV2R | -11179 | -2 | 50 | 26 |
| 1515 | STV2R | -11049 | -2 | 50 | 26 |
| 1516 | STV1R | -11179 | -82 | 50 | 26 |
| 1517 | STV1R | -11049 | -82 | 50 | 26 |
| 1518 | STBNR | -11179 | -162 | 50 | 26 |
| 1519 | STBNR | -11049 | -162 | 50 | 26 |
| 1520 | DUMR | -11179 | -242 | 50 | 26 |
| 1521 | DUMR | -11049 | -242 | 50 | 26 |

| PAD Name | X-axis | Y-axis |
|---|---|---|
| ALM_L | -10773 | 134 |
| ALM_R | 10773 | 134 |

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| | | | | | |
|---|---|---|---|---|---|
| 1477 | SO[1180] | -10280.5 | 385.5 | 14 | 65 |
| 1478 | SO[1181] | -10297.5 | 258 | 14 | 65 |
| 1479 | SO[1182] | -10314.5 | 118 | 14 | 65 |
| 1480 | SO[1183] | -10331.5 | 385.5 | 14 | 65 |
| 1481 | SO[1184] | -10348.5 | 258 | 14 | 65 |
| 1482 | SO[1185] | -10365.5 | 118 | 14 | 65 |
| 1483 | SO[1186] | -10382.5 | 385.5 | 14 | 65 |
| 1484 | SO[1187] | -10399.5 | 258 | 14 | 65 |
| 1485 | SO[1188] | -10416.5 | 118 | 14 | 65 |
| 1486 | SO[1189] | -10433.5 | 385.5 | 14 | 65 |
| 1487 | SO[1190] | -10450.5 | 258 | 14 | 65 |
| 1488 | SO[1191] | -10467.5 | 118 | 14 | 65 |
| 1489 | SO[1192] | -10484.5 | 385.5 | 14 | 65 |
| 1490 | SO[1193] | -10501.5 | 258 | 14 | 65 |
| 1491 | SO[1194] | -10518.5 | 118 | 14 | 65 |
| 1492 | SO[1195] | -10535.5 | 385.5 | 14 | 65 |
| 1493 | SO[1196] | -10552.5 | 258 | 14 | 65 |
| 1494 | SO[1197] | -10569.5 | 118 | 14 | 65 |
| 1495 | SO[1198] | -10586.5 | 385.5 | 14 | 65 |
| 1496 | SO[1199] | -10603.5 | 258 | 14 | 65 |
| 1497 | SO[1200] | -10620.5 | 118 | 14 | 65 |
| 1498 | SHIELDING | -10664 | 405.5 | 30 | 45 |
| 1499 | COM1_T | -10714 | 405.5 | 30 | 45 |
| 1500 | COM1_T | -10764 | 405.5 | 30 | 45 |

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## 8. DEFINITIONS

### 8.1. Data Sheet Status

| | |
|---|---|
| Preliminary Data Sheet | This data sheet contains preliminary data; supplementary data may be published later. |
| Data Sheet | This data sheet contains final product specifications. |

Contents in the document are subject to change without notice.

### 8.2. Life Support Application

These products are not designed for use in life support appliances, devices, or systems where malfunction of these products can reasonably be expected to result in personal injury. fitipower customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify fitipower for any damages resulting from such improper use or sale.

## 9. REVISION HISTORY

| Revision | Content | Page | Date |
|---|---|---|---|
| 1.0 | 1. New issue | - | 2018/05/17 |

| | | | |
|---|---|---|---|
| 2.0 | 1. Update PAD coordinates(without bump shift) | 25~37 | 2018/05/31 |
| 2.1 | 1. Update PAD coordinates(without bump shift) | 25~37 | 2018/07/04 |

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