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1200CH TFT LCD Source Driver with TCON

1. GENERAL DESCRIPTION

EK9716 is a highly integrated 1200 channel source driver with TTL interface Timing Controller for color TFT-LCD panels. EK9716 integrated source driver, timing controller and pin control interface.

EK9716 input timing support TTL digital 24bit parallel RGB data format, and source output support 8 bit resolution 256 gray scales with dithering features. Operating parameters can be set via pin control for all control features. Special circuit architecture is designed for lower power dissipation.

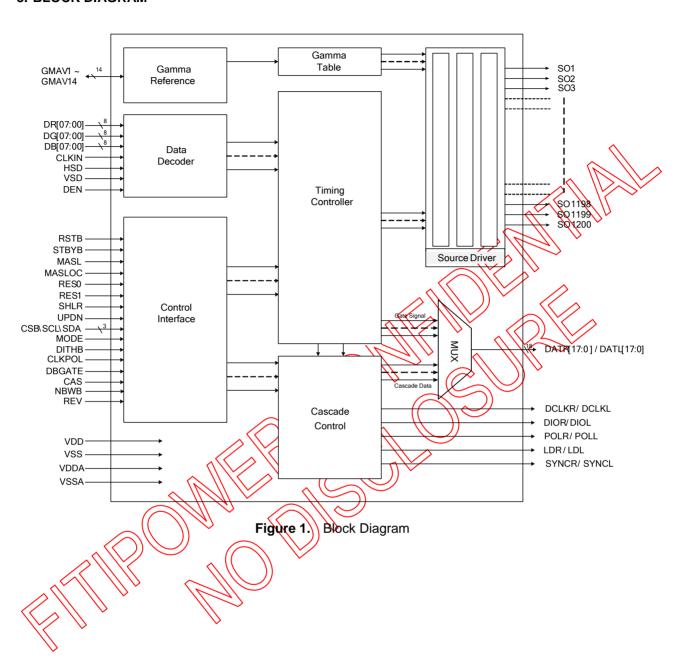
EK9716 support two chip cascade operation mode to reduce the FPC amount and save the cost. Configure able Master and Slave configuration increase the flexibility for different panel design. With wide range of supply voltages and small output deviations make this chip more suitable for various applications.

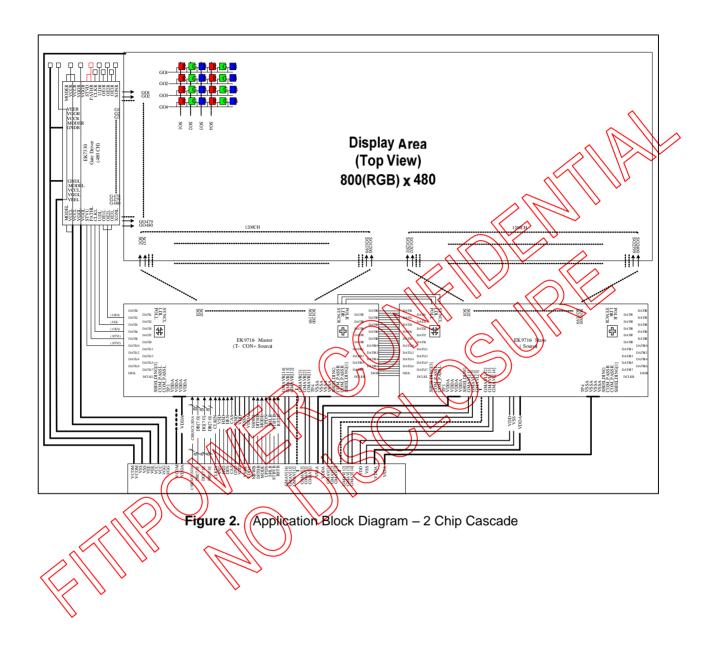
2. FEATURES

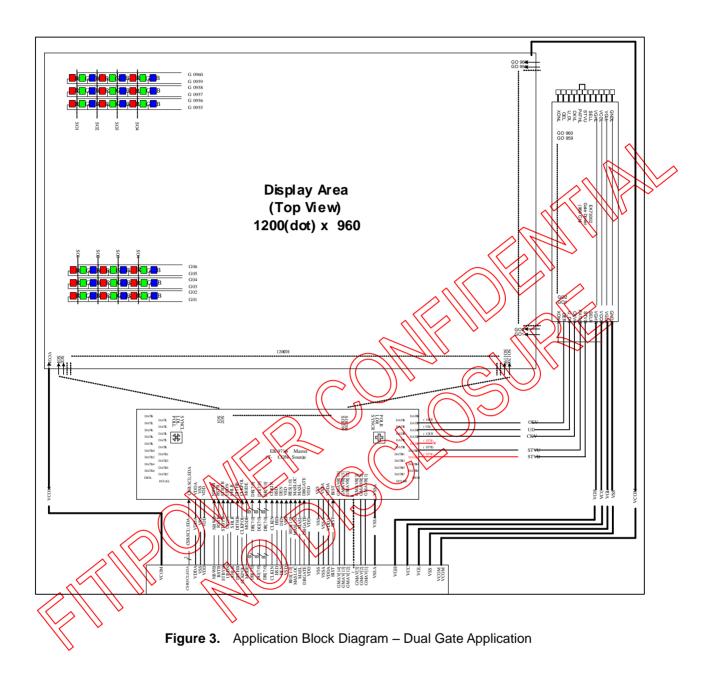
- Special design for small-sized color TFT LCD source drivers with timing controlled
- Integrated 1200 channel source driver
- Support display resolutions: 800(RGB)x600\800(RGB)x480\400(RGB)x480\400(RGB)x240
- 8-bit resolution 256 gray scale with 2-bits dithering (6bits DAC + 2bits HFRC)
- Support TTL 24-bit parallel (RGB) input timing
- Support cascade function with bidirectional shift central (CMOS signal)
- Support single or dual-gate operation mode
- Support Stripe color fifter configuration
- Support stand-by mode for low power consumption
- Support dot inversion driving scheme (Cascade mode)
- Support 2 dot one inversion driving scheme (Dual Gate mode)
- V1 ~ V14 for adjusting Gamma correction
- Output dynamic range: 0.1V ~ VDDA-0.1V (Dual Gate mode)
- Power for source driver voltage VDDA: 6.5V ~ 13.5V
- Power for digital interface circuit VDD: 1.7 ~ 3.6V (Dual Gate mode)
- Rower for digital interface circuit VDD: 1.7 ~ 3.6V (Cascade mode)
- Max. operating frequency: 50 MHz (Dual Gate mode)
- Max. operating frequency: 40MHz (Cascade mode)
- Minimum operating frequency: 20 MHz (800(RGB)x600 and 800(RGB)x480 display resolution)
- Built-in AUTO pattern
- COG package
- Chip Size: 22487um X 803um(not include srcibe line), Output Pad Pitch: 17um

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3. BLOCK DIAGRAM







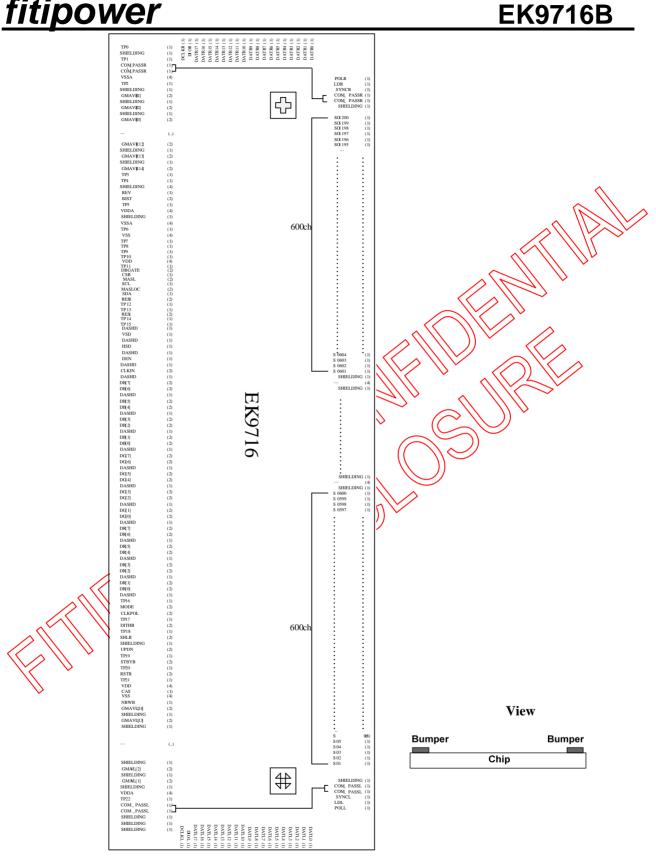


Figure 4. Pad Sequence (Bump Side)



4 PIN DESCRIPTION

Table 1. Pin Description

	Description	
Pin Name	Pin Type	Description
DR[07:00] DG[07:00] DB[07:00]	Input	Parallel data Input. For TTL 24-bit parallel RGB image data input. DR[07:00]=R[7:0] data; DG[07:00]=G[7:0] data; DB[07:00]=B[7:0] data. For 18bit RGB interface, connect two LSB bits of all the R/G/B data buses to VSS.
CLKIN	Input	Clock for Input Data. Data latched at rising/falling edge of this signal. Default falling edge.
HSD	Input	Horizontal Sync input. Negative polarity.
VSD	Input	Vertical Sync input. Negative polarity.
DEN	Input	Data Input Enable. Active High to enable the data input but under "DE Mode". Normally pull low.
MODE	Input	DE / SYNC mode select. Normally pull high H: DE mode.(Default) L: HSD/VSD mode.
RES[1:0]	Input	Display resolution selection. RES[1:0] = "00", for 800(RGB)*480 display resolution(Default) RES[1:0] = "01", for 800(RGB)*600 display resolution RES[1:0] = "10", for 400(RGB)*480 display resolution RES[1:0] = "11", for 400(RGB)*240 display resolution
DITHB	Input	Dithering function enable control. Normally pulk high DITHB = "1", Disable internal dithering function (Default) DITHB = "0", Enable internal dithering function
CLKPOL	Input	Input clock edge selection. Normally pull low CLKPOL = "1" Latch data at CLKIN rising edge. CLKPOL = "0", Latch data at CLKIN falling edge. (Default)
DBGATE	Input	Dual Gate function enables control Normally pull low DBGATE = "1", Enable Dual Gate Function. DBGATE = "0", Disable Dual Gate Function (Default) Note: Cascade function will be disabled under "dual gate" mode
GMAV1 ~ GMAV14	Input/Output	Gamma correction reference voltage. These input voltage must be offered by user. VSSA+0.1 <v14<w12<v11<v10<v8;v7<v5<v4<v3<v1< (cascade="" (dual="" are="" disabled.<="" gate)="" mode)="" pads="" td="" v13="" v2,="" v6,="" v9,="" vdda-0.1="" vdda-1="" vssa+1<v14<v12<v11<v10<v8;v7<v5<v4<v3<v1<=""></v14<w12<v11<v10<v8;v7<v5<v4<v3<v1<>
RSTB	Input	Suggest to connecting with an RC reset circuit for stability. Normally pull high.
STBYB	Input	Standby mode, Normally pull high. STBYB = "1", normal operation(Default) STBYB = "0", timing controller, source driver will turn off, all output are High-Z
MASL	Input	Master and Slave Mode selection. Normally pull high. MASL = "H", for Master mode. (Default Mode) MASL = "L", for Slave mode. Only the Master chip will issue the Gate and Cascade control signal.
MASLOC	Input	Master location definition pin. Normally pull low. MASLOC = "L", Master locate on right side (Panel top view). (Default Mode) MASLOC = "H", Master locate on left side (Panel top view).
CSB	Input	Serial communication chip select. Normally pull high
SDA	Input/Output	Serial communication data input. Normally pull low

Pin Name	Pin Type	Description
SCL	Input	Serial communication clock input. Normally pull low
SHLR	Input	Source Right or Left sequence control. Normally pull high. SHLR = "L", shift left: last data = S1←S2←S3←S1200 = first data. SHLR = "H", shift right: first data = S1→S2→S3→S1200 = last data.
UPDN	Input	Gate Up or Down scan control. Normally pull low. UPDN = "L", STV2 output vertical start pulse and UD pin output logical "0" to Gate driver.(Default) 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 BIST = H : BIST(DCLK input is not needed) BIST = L : Normal Operation
CAS	Input	Cascade function select. Normally pull high. CAS = "H", Enable cascade function.(Default) CAS = "L", Disable cascade function.
NBWB	Input	Normally black or normally white setting. NBWB = "0" : Normally black NBWB = "1" : Normally white (Default)
REV	Input	Controls whether the data of D00 D27 are inverted of not, normally pulled low. When "REV"=1 these data will be inverted, EX. "00" → "3F", "07" → "38", "15" → "24", and so on.
DATR[17:0]	Input/Output	Multi function (/O pin Refer to the Cascade DAT pin mapping table for the detail.
DCLKR	Input/Output	Master and Slave cascade control signal.
DIOR	Input/Output	Master and Slave cascade control signal
POLR	Input/Output	
LDR	Input/Outout	Waster and Slave cascade control signal.
SYNCR	Input/Qutput	
DATL[17:0]	Input/Output	Multi function VO pin. Refer to the Cascade DAT pin mapping table for the detail.
DCLKL	Input/Output	Master and Slave cascade control signal.
DIOL	Input/Output	
POL	Input/Output	
SYNCI	Input/Output	
SYNCL VDDA	Input/Output Power Input	_
VSSA		Power supply for analog circuits Ground pins for analog circuits
•	Power Input	Ground pins for analog circuits
VDD VSS	Power Input Power Input	Power supply for digital circuits Ground pins for digital circuits
SO1~SO1200	Output	Source Driver Output Signals. All outputs will be of unknown values under stand-by mode.
ALIGN	Mark	For assembly alignment.
COM_PASSR COM_PASSL	Shorted line	Internal link together between input side and output side.
TP22~0	Testing	Float these pins for normal operation.
11 22 10	1 0011119	IC Shielding pads.
SHIELDING	Shielding	Those pins are internally connected to the VSSA. DO NOT connect to any WOA on the panel.

Pin Name	Pin Type	Description
DASHD	Shielding	Data Bus Shielding pad. Those pins are internally connected to the VSS. RECOMMAND to add shielding lines on the FPC to reduce EMI.

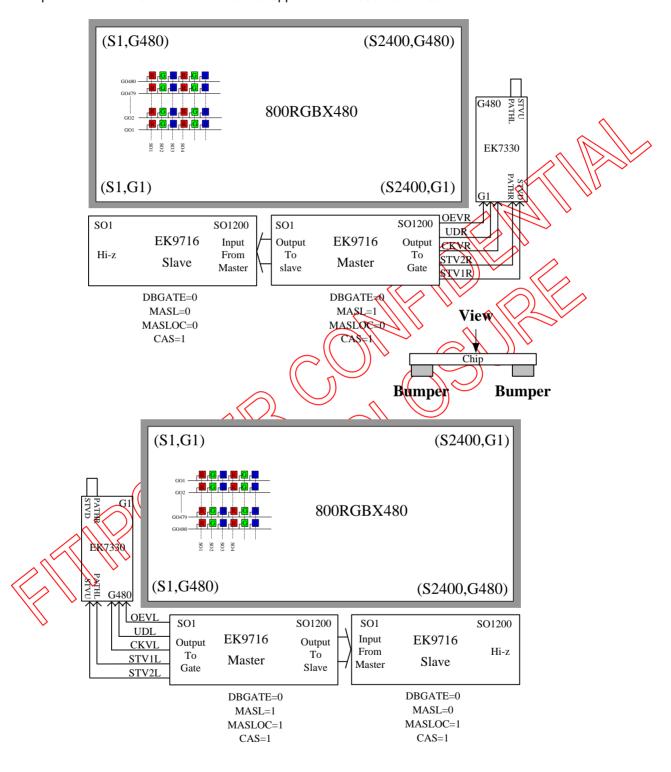
Table 2. EK9716 Pass Line Description:

Pass Line No:	Pad N				
1	COM_PASSR	COM_PASSR			\wedge
2	COM_PASSL	COM_PASSL			
				//	3/19/
				$\langle \langle$	
			·		
				7)	
			$\sim (())/ $	\bigcirc \	())
		(1	\sim \bigcirc		
		(/	(N)
				(())	
	^ \		$\langle \rangle \langle \rangle \rangle$	~	
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4.1. Chip Driver configuration examples of the EK9716

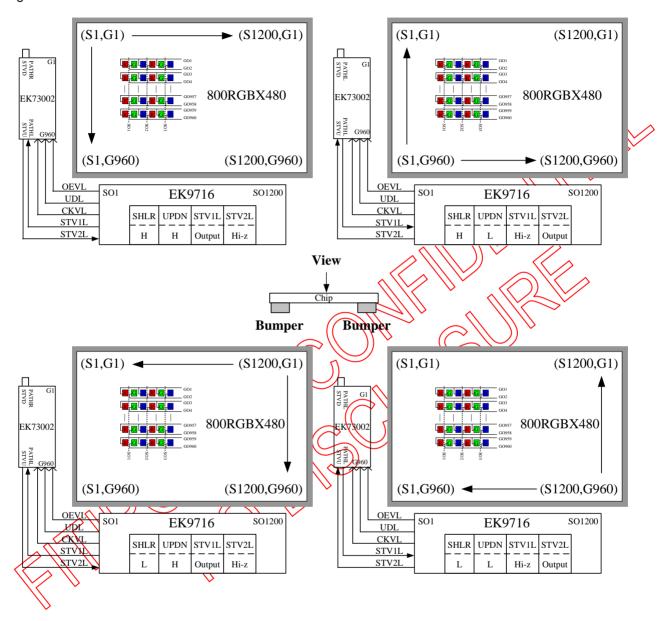
Two pieces of EK9716 driver are cascaded application for 800RGB x480





4.2. EK9716 put down and EK73002 put left side for 800RGBx480 of dual-gate mode

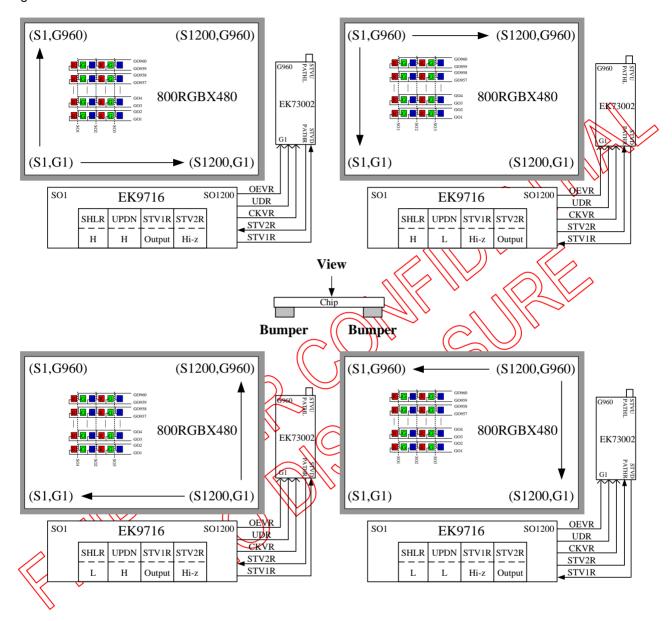
When DBGATE=1, MASL=1, MASLOC=X and CAS=0, application of the EK9716 will be illustrated as figure.





4.3. EK9716 put down and EK73002 put right side for 800RGBx480 of dual-gate mode

When DBGATE=1, MASL=1, MASLOC=X and CAS=0, application of the EK9716 will be illustrated as figure.





4.4. 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.

Table 3. wiring resistance

Pin Name	Wiring resistance value(Ω)	Pin Name	Wiring resistance value (Ω)
VDD	<25	BIST	<1K
VDDA	<5	CAS	<1K
VSS	<25	CSB/SCL/SDA	<200
VSSA	<5	DATR[17:0]	<200 & 20 pf
GMAV1~GMAV14	<10	DCLKR	<200 & 20 pt
DR[07:00]	<200	DIOR	<200 & 20 pf
DG[07:00]	<200	POLR	<200 & 20 pf
DB[07:00]	<200	LDR	<200 & 20 pf
DEN	<200	SYNCR	<200 & 20 pt
MODE	<1K	DATLITAGI	<200 & 20 pf
RES[1:0]	<1K	DCLKL	200 & 20 pf
DITHB	<1K	DIOL	<200 & 20 pf
CLKPOL	<14	POLL	<200 & 20 pf
DIMO	<-1K	LDL	<200 & 20 pf
DBGATE	AME O	CASCADE GMAV1~GMAV14	<30
RSTB	<1K	CLKIN	<50
MASK	€1K V	HSD	<200
MASLOC	(AK)	VSD	<200
SHLR	∭ K		
UPDN	<1K		

fitipower

LDL

SYNCL

LD

SYNC

Χ

Χ

Table 4. DATR[17:0] / DATL[17:0] pin mapping Table: DBGATE = "0" DBGATE = "0" DBGATE = "0" DBGATE = "0" DBGATE = "1" DBGATE = "0" DATR[17:0] MASL = "1"MASL = "1"MASL = "0"MASL = "0"MASL = "1"MASL = "1"MASLOC = "0"MASLOC = "1" MASLOC = "0" MASLOC = "1" MASLOC = "X" MASLOC = "X"CAS = "1" CAS = "1" CAS = "1" CAS = "1" CAS = "0"RES[1:0]="1X" CAS = "0"Single Source Master for Master for Slave for Slave for **Dual Gate** Description Mode Mode cascade. cascade. cascade. cascade. Master locate Master locate Master locate Master locate on panel right on panel left on panel right on panel left side side side side DATR0 Χ DAT0 DAT0 Χ Χ X DATR1 Χ DAT1 DAT1 Χ Χ X DATR2 **OEV** DAT2 DAT2 Χ OEV **DEV** DATR3 Χ DAT3 DAT3 Χ Χ Χ DATR4 UD DAT4 DAT4 Χ UØ **∕**UD DATR5 Χ DAT5 DAT5 X X X CKV CKY CKV DATR6 DAT6 DAT6 X DATR7 Χ DAT7 DAT7 Χ X Х STYT DATR8 STV1 DAT8 DAT8 Χ STV1 DATR9 Χ DAT9 DAT9 χ Χ X DATR10 STV2 DAT10 DAT10 X) STV2 STV2 Χ DAT11 Χ DATR11 DAT11 X **\$1** DATR12 STV1 DAT12 STV1 DAT12 DATR13 DAT13 DAT13 X Χ Χ Χ DAT14 Χ DATR14 DAT/A X DATR15 X DAT15 DAT(15 X STBN STBN STBN DATR16 DAT16 *'*DA'TÌ6 X X DATR17 Χ DAT17 DAT 17 Χ Χ **DCLKR** Χ **DCLK** DCKK X Χ Χ DIOR Χ DIO DIO Χ Χ LDR X 100 LD X X **SYNCR** X () SYMC SYNC Χ X DATL0 \X**`**` DAT0 Χ Χ DAT0 X X X Χ DATL1 DAT1 DAT1 X DATL2 DAT2 OEV X OEV OEV DAT2 DATL3 $\mathcal{E}^{\dagger}\mathcal{A}$ Χ DAT3 Χ Χ DATL4 DAT4 (VD Χ DAT4 UD UD X DATL5 DAT5 \X DAT5 Χ Х DATE6 DAT6 CKV X DAT6 CKV CKV **BATLY** X Χ DAT7 DAT7 Χ Χ STV1 DATL8 DAT8 Χ DAT8 STV1 STV1 DAT9 X DAT9 DATL9 Χ Χ Χ DATL10 DAT10 STV2 Χ DAT10 STV2 STV2 DAT11 Χ Χ DAT11 DATL11 Χ Χ DAT12 STV1 X DAT12 STV1 STV1 DATL12 DATL13 DAT13 Χ Χ DAT13 Χ Χ DATL14 DAT14 Χ X DAT14 Χ Χ X Х DATL15 DAT15 Χ DAT15 Χ X DATL16 DAT16 **STBN** DAT16 **STBN** STBN Χ DATL17 DAT17 Χ DAT17 X Χ **DCLKL DCLK** Χ Χ **DCLK** Χ Χ DIOL DIO Χ Χ DIO Χ Χ

X

Χ

LD

SYNC

X

Χ

Χ

Χ

5. 3-WIRE SERIAL PORT INTERFACE

5.1. 3-Wire Command Format

EK9716 use the 3-wire serial port as communication interface for all the function and parameter setting.

3-Wire communication can be bi-directional controlled by the "R/W" bit in address field. EK9716 3-Wire engine act as a "slave mode" for all the time, and will not issue any command to the 3-Wire bus itself.

Under read mode, 3-Wire engine will return the data during "Data phase". The returned data should be latched at the rising edge of SCL by external controller. Data in the "Hi-Z phase" will be ignored by 3-Wire engine during write operation, and should be ignored during read operation also. During read operation, external controller should float SDA pin under "Hi-Z phase" and "Data phase".

Each Read/Write operation should be exactly 16 bit. To prevent from incorrect setting of the internal register, any write operation with more or less than 16 bit data during a CSB Low period will be ignored by 3-Wire engine.

For prevent from incorrect setting of the internal register. Please refer to the section of "3-Wire Timing Diagram" for the detail timing.

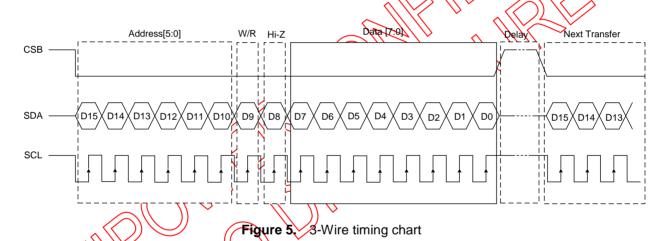


Table 5. 3-Wire Command Format

Bit	Description
D15 - D10	Register Address [5:0].
\\ D9	W/R control bit. "0" for Write; "1" for Read
D8	Hi-Z bit during read mode. Any data within this bits will be ignored during write mode
D7 – D0	Data for the W/R operation to the address indicated by Address phase

Table 6. 3-Wire Writer Format

MSB															LSB
D15	D14	D13	D12	D11	D10	D9	D8	D7	D6	D5	D4	D3	D2	D1	D0
	0	Χ		DAT	A (Issu	e by ex	kternal	contr	oller)						

Table 7. 3-Wire Read Format

MSB															LSB
D15	D14	D13	D12	D11	D10	D9	D8	D7	D6	D5	D4	D3	D2	D1	D0
Register Address [5:0]							Hi-Z		DA	TA (Iss	sue by	3-Wire	engir	ne)	·

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5.2. 3-Wire Control Registers

Following table list all the 3-Wire control registers and bit name definition for EK9716. Refer to the next section for detail register function description, please.

Setting of all the 3-Wire registers will take effect at the coming falling edge of VSD except GRB and STB bit.

5.3. 3-Wire Control Register List

NO.			Add	ress			R/W	D8	MSB			Initial	value			LSB
NO.	D15	D14	D13	D12	D11	D10	D9	Do	D7	D6	D5	D4	D3	D2	(D1	D0
R0	0	0	0	0	0	0	0 DAV(0)	R/W(0) X	RES[1]	RES[0]	SHLR	UPDN	STBYB	GRB	/-//	MADE
KU	0	U	U	U	U	0	K/VV(0)		0	0	1	0	1	$\sqrt{1}$		1
R1	0	0	0	0	0	1	R/W(0)	Х	NBWB	-	SCI_ON	ı		HFRC	рітнв	BIST
							(-)		1	-	0			1	1	0

Note:

1. The register except upper list was for testing use, to write test register was not allowed.

Table 8. R0: System Control Register

Designation	Address	Description
MODE	R0[0]	DE / SYNC mode select. MODE="0", HSD/VSD mode, MODE="1", DE mode. (Default)
GRB	R0[2]	Global reset bit. GRB="0", The controller is in reset state. GRB="1", Normal operation. (Default)
STBYB	R0[3]	Standby mode selection bit. STBYB="0", Timing control and driver are off. All outputs are High-Z. STBYB="1", Normal operation. (Default)
UPDN	R0[4]	Gate Up or Down scan control) UPDN = "0", STV2 output vertical start pulse and UD pin output logical "0" to Gate driver. (Default) UPDN = "1", STV1 output vertical start pulse and UD pin output logical "1" to Gate driver.
SHER	R0[5]	Right/Left sequence control of source driver. SHLR="0", Shift left: Last data=S1<-S2<-S3 <-S1200=First data. SHLR="1", Shift right: First data=S1->S2->S3>S1200=Last data. (Default)
RES[1:0]	R0[7:6]	Display resolution selection. RES[1:0] = "00", for 800(RGB)*480 display resolution.(Default) RES[1:0] = "01", for 800(RGB)*600 display resolution. RES[1:0] = "10", for 400(RGB)*480 display resolution. RES[1:0] = "11", for 400(RGB)*240 display resolution.

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Table 9. R1: System Control Register

Designation	Address	Description
BIST	R1[0]	Normal Operation/BIST pattern select. BIST = "0" : Normal Operation (Default) BIST = "1" : BIST(DCLK input is not needed)
DITHB	R1[1]	Dithering function enable control. Normally pull high DITHB = "0", Enable internal dithering function. DITHB = "1", Disable internal dithering function.(Default)
HFRC	R1[2]	H-FRC selection. HFRC = "0": FRC enable. HFRC = "1": HiFRC enable(Default). If DITHER = "1", disable dithering function(HiFRC and FRC disable)
SCI_ON	R1[5]	Enable 3-wire control function. Normally pull low SCI_ON = "0": Base on pin control function. (Default) SCI_ON = "1": Base on 3-wire register.
NBWB	R1[7]	Normally black or normally white setting NBWB = "0" : Normally black NBWB = "1" : Normally white (Default)

6 FUNCTION DESCRIPTION

6.1. Power On/Off Sequence

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

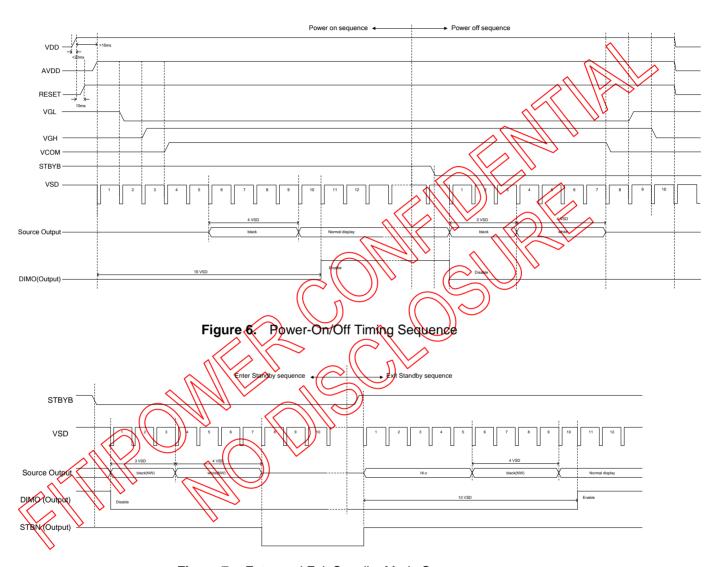


Figure 7. Enter and Exit Standby Mode Sequence

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6.2. Input Data VS Output Channels

6.2.1. DBGATE="0" (Stripe Mode)

Table 10. SHLR="1", right shift

Output	SO1	SO2	SO3		SO1198	SO1199	SO1200
Order		First data		\rightarrow		Last data	
Odd Line	DR[07:00]	DG[07:00]	DB[07:00]		DR[07:00]	DG[07:00]	DB[07:00]
Even Line	DR[07:00]	DG[07:00]	DB[07:00]		DR[07:00]	DG[07:00]	DB[07:00]

Table 11. SHLR="0", left shift

Output	SO1	SO2	SO3		SO1198	SO1199	SO1200
Order		Last data		—		First data	
Odd Line	DR[07:00]	DG[07:00]	DB[07:00]		DR[07:00]	DG[07:00]	DB[07:00]
Even Line	DR[07:00]	DG[07:00]	DB[07:00]		DR[07:00]	be[0 x,00]/	DB[07:00]

6.2.2. DBGATE="1" (Stripe Mode)

Table 12. SHLR="1", right shift

Tubic III Cillin	, rigine or me				~ \ \ \ \ \ \	• //	
Output	SO1	SO2	SO3		SO1198	SO1199	SO1200
Order		First data		4		Last data	
Odd Line/Gn	DR[07:00]	DB[07:00]	DG[07:00]		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\DB[07:00]\	DG[07:00]
Odd Line/Gn+1	DG[07:00]	DR[07:00]	DB[07:00]	//	DG[07:00]	DR[07:00]	DB[07:00]
Even Line/Gn	DR[07:00]	DB[07:00]	DG[07:00]\\	1	DR[07:00]\	DB[07:00]	DG[07:00]
Even Line/Gn+1	DG[07:00]	DR[07:00]	(DB(0X:00])		DGIOZOGN	DK[07:00]	DB[07:00]

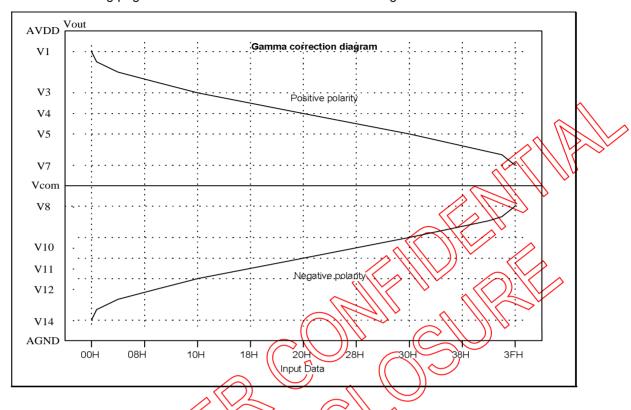
Table 13. SHLR="0". left shift

Tubic 10: Official	, icit offit	// \\	\sim	Λ			
Output	SO1	SO2	SO3		SO1198	SO1199	SO1200
Order	Q,	Last data	· ((4		First data	
Odd Line/Gn	DR[07:00]\\	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	D&{67:00}	<i>)</i> } `	DR[07:00]	DB[07:00]	DG[07:00]
Odd Line/Gn+1	DG[07:00]	\\DR[07:00]	(DB[07:60]		DG[07:00]	DR[07:00]	DB[07:00]
Even Line/Gn	DETOX:00)	B [07:00]	DG[07:00]		DR[07:00]	DB[07:00]	DG[07:00]
Even Line/Gn+1	(b@[0X)00}	DR[07:00]	B [07:00]		DG[07:00]	DR[07:00]	DB[07:00]

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6.3. 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.



Remark:

Dual Gate: VDDA-0.1V > V1 3 × V4 > V5 > V7; V8 > V10 > V11 > V12 > V14 > VSSA+0.1V Cascade: VDDA-7V > V1 > V3 > V4 > V5 > V7; V8 > V10 > V11 > V12 > V14 > VSSA+1V



6.4. Input Data and Output Voltage Reference Table

Table 14. Gamma correction resistor ratio

V1 V14	Name	Resistor	Name	Resistor	V4 V11
V1, V14	R0	8.0	R32	0.63	■ V4, V11
	R1	7.11	R33	0.63	
	R2	6.22	R34	0.63	
	R3	5.33	R35	0.62	
	R4	4.45	R36	0.62	
	R5	3.56	R37	0.62	
	R6	2.97	R38	0.62	
	R7	2.48	R39	0.61	
	R8	2.14	R40	0.61	
	R9	1.89	R41	0.61	
	R10	1.69	R42	0.62	
	R11	1.54	R43	0.63	
	R12	1.39	R44	0.64	
	R13	1.28	(R45)	0.64	
	R14	1.21	R46	0.65	
V3, V12——	R15	1.14	<i>)</i> R47	((0.67)	⋖ ──V5, V10
, 5, 112	R16	1.05	R48	0.75	, , , , , , ,
	R17		R49	0.9	
<	R78	0.94	R50	1	
	R19	0.91	₹ 5/1	1	
	R20	78.0	R52	1.2	
	R21	0.84	R53	1.2	
	R22	Ø.81	R54	1.4	
	R23	0.78	R55	1.5	
	R24	0.76	R56	1.7	
	R25	0.73	R57	2	
	R26	0.71	R58	2.1	
	R27	0.7	R59	2.3	
	R28	0.68	R60	3.1	
	R29	0.67	R61	4.2	
	R30	0.66	R62	20.1	▼ V7, V8
V4, V11	R31	0.64			ŕ



Table 15.	Output Voltage VS Input Data	
Data	Positive polarity Output Voltage	Negative polarity Output Voltage
00H	V1	V14
01H	V3 + (V1 – V3) X 44.4 / 52.4	V14+ (V12 – V14) X 8 / 52.4
02H	V3 + (V1 – V3) X 37.29 / 52.4	V14+ (V12 – V14) X 15.11 / 52.4
03H	V3 + (V1 – V3) X 31.06 / 52.4	V14+ (V12 – V14) X21.34 / 52.4
04H	V3 + (V1 – V3) X 25.73 / 52.4	V14+ (V12 – V14) X 26.67 / 52.4
05H	V3 + (V1 – V3) X 21.28 / 52.4	V14+ (V12 – V14) X 31.12 / 52.4
06H	V3 + (V1 – V3) X 17.73 / 52.4	V14+ (V12 – V14) X 34.67 \ 52.4
07H	V3 + (V1 – V3) X 14.76 / 52.4	V14+ (V12 – V14) X 37.64/ 52.4
H80	V3 + (V1 – V3) X 12.28 / 52.4	V14+ (V12 – V14) X 49.11 / 52.4
09H	V3 + (V1 – V3) X 10.14 / 52.4	V14+ (V12 + V14) X 42.26 / 52.4
0AH	V3 + (V1 – V3) X 8.25 / 52.4	V14+ (V12 – V14) X 44.15 / 52.4
0ВН	V3 + (V1 – V3) X 6.56 / 52.4	V14+ (V12 - V14) X)45.84 / 52.4
0CH	V3 + (V1 – V3) X 5.02 / 52.4	V14+ (V12 - V14) X 47.38 / 52.4
0DH	V3 + (V1 – V3) X 3.64 / 52.4	V14((V12 V14) X 48.76 / 52.4
0EH	V3 + (V1 – V3) X 2.36 / 52.4	V147 (V12 V14) X 50.04 / 52.4
0FH	V3 + (V1 – V3) X (1.14)/52.4	V14+ (V12 – V14) X 51.26 / 52.4
10H	V3	V12
11H	V4 + (V3 - V4) × 11.7 / 12.75	V12 + (V11 – V12) X 1.05 / 12.75
12H	VA = (N3 + V4) X 10.7/12 X5 ~	V12 + (V11 – V12) X 2.05 / 12.75
13H	V4 + (V3 – V4) X 9.76 × 12.75	V12 + (V11 – V12) X 2.99 / 12.75
14H	V4 + (V3 – V4) X 8.85 / 12.75	V12 + (V11 – V12) X 3.9 / 12.75
15H	V4 + (V3 V4) X 7.98 / 12.75	V12 + (V11 – V12) X 4.77 / 12.75
16H	V4 + (V3 – V4) X 7.14 / 12.75	V12 + (V11 – V12) X 5.61 / 12.75
र्ग्रम	V4 + (V3 – V4) X 6.33 / 12.75	V12 + (V11 – V12) X 6.41 / 12.75
18H	V4 + (V3 – V4) X 5.55 / 12.75	V12 + (V11 – V12) X 7.19 / 12.75
19H	V4 + (V3 – V4) X 4.8 / 12.75	V12 + (V11 – V12) X 7.95 / 12.75
1AH	V4 + (V3 – V4) X 4.06 / 12.75	V12 + (V11 – V12) X 8.68 / 12.75
1BH	V4 + (V3 – V4) X 3.35 / 12.75	V12 + (V11 – V12) X 9.4 / 12.75
1CH	V4 + (V3 – V4) X 2.65 / 12.75	V12 + (V11 – V12) X10.09/ 12.75
1DH	V4 + (V3 – V4) X 1.97 / 12.75	V12 + (V11 – V12) X10.78/ 12.75
1EH	V4 + (V3 – V4) X 1.3 / 12.75	V12 + (V11 – V12) X11.44/ 12.75
	1	1

V12 + (V11 – V12) X 12.1 / 12.75

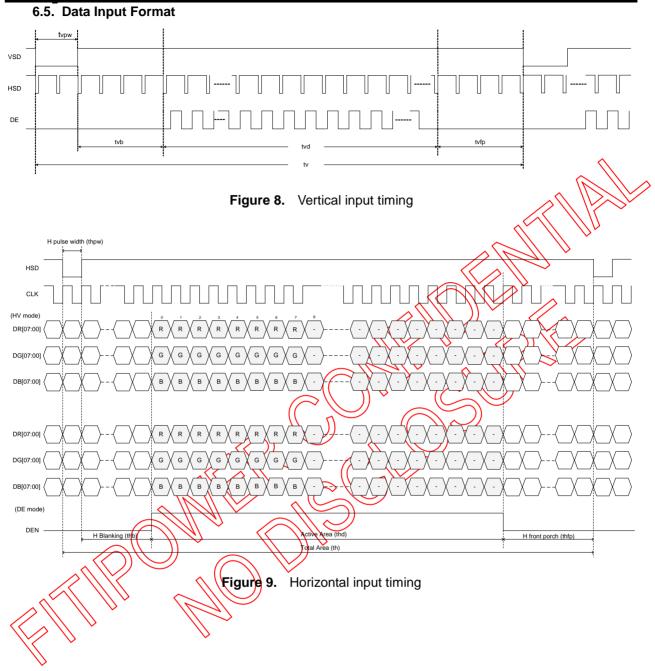
V4 + (V3 - V4) X 0.65 / 12.75

1FH

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Data	<u> </u>	• • • • • • • • • • • • • • • • • • • 	
21H	Data	Positive polarity Output Voltage	Negative polarity Output Voltage
22H	20H	V4	V11
23H	21H	V5 + (V4 – V5) X 9.37 / 10	V11 + (V10 – V11) X 0.63 / 10
24H	22H	V5 + (V4 – V5) X 8.74 / 10	V11 + (V10 – V11) X 1.26 / 10
25H	23H	V5 + (V4 – V5) X 8.11 / 10	V11 + (V10 – V11) X 1.89 / 10
26H	24H	V5 + (V4 – V5) X 7.49 / 10	V11 + (V10 – V11) X 2.51 / 10
27H	25H	V5 + (V4 – V5) X 6.87 / 10	V11 + (V10 – V11) X 3.13 (10
28H	26H	V5 + (V4 – V5) X 6.25 / 10	V11 + (V10 – V11) X 3.75 / 10
29H	27H	V5 + (V4 – V5) X 5.63 / 10	V11 + (V10 – V11) X 4 36 X10
2AH	28H	V5 + (V4 – V5) X 5.02 / 10	V11 + (V10 - V11) X 4.98 / 10
2BH	29H	V5 + (V4 – V5) X 4.41 / 10	V11 + (V10 - V11) X 5.59 / 10
2CH	2AH	V5 + (V4 – V5) X 3.8 / 10	√11 + (¥10 ≠ √11) X 6.2 / 10
2DH	2BH	V5 + (V4 – V5) X 3.18 / 10	V11 + (V10 - V11) X 6.82 / 10
2EH	2CH	V5 + (V4 – V5) X 2.55 / 10	V11 + (V10 - V11) × 7.45 / 10
2FH	2DH	V5 + (V4 – V5) X 1.91 / 10	V11+(X10 - V11) X 8.08 / 10
30H	2EH	V5 + (V4 – V5) X 1.27 / 10	V11 + (V10 - V11) X 8.72 / 10
31H	2FH	V5 + (V4 – V5) X 0-62 / 10	(V1) + (V10 – V11) X 9.38 / 10
32H	30H	V5	V10
33H	31H	V7 + (V5 + XX) X 43.X/ 44.45	V10 + (V8 – V10) X 0.75 / 44.45
34H	32H	V7 + (V5 - V7) X 42.8 / 44.45	V10 + (V8 – V10) X 1.65 / 44.45
35H	33H	(V7 + (V5 V7) X 41.8 / 44.45	V10 + (V8 – V10) X 2.65 / 44.45
36H V7 + (V6 V7) X 38.4 / 44.45 V10 + (V8 - V10) X 6.05 / 44.45 37H V7 + (V5 V7) X 37 / 44.45 V10 + (V8 - V10) X 7.45 / 44.45 38H V7 + (V5 - V7) X 35.5 / 44.45 V10 + (V8 - V10) X 8.95 / 44.45 39H V7 + (V5 - V7) X 33.8 / 44.45 V10 + (V8 - V10) X 10.6 / 44.45 3AH V7 + (V5 - V7) X 31.8 / 44.45 V10 + (V8 - V10) X 12 / 44.45 3BH V7 + (V5 - V7) X 29.7 / 44.45 V10 + (V8 - V10) X 14.7 / 44.45 3CH V7 + (V5 - V7) X 27.4 / 44.45 V10 + (V8 - V10) X 17 / 44.45 3DH V7 + (V5 - V7) X 24.3 / 44.45 V10 + (V8 - V10) X 20.1 / 44.45 3EH V7 + (V5 - V7) X 20.1 / 44.45 V10 + (V8 - V10) X 24.3 / 44.45	34H	VZ+(V5 - V7) X 40.8) 44.45	V10 + (V8 – V10) X 3.65 / 44.45
37H V7 + (V5 = V7) X 37 / 44.45 V10 + (V8 = V10) X 7.45 / 44.45 38H V7 + (V5 = V7) X 35.5 / 44.45 V10 + (V8 = V10) X 8.95 / 44.45 39H V7 + (V5 = V7) X 33.8 / 44.45 V10 + (V8 = V10) X 10.6 / 44.45 3AH V7 + (V5 = V7) X 31.8 / 44.45 V10 + (V8 = V10) X 12 / 44.45 3BH V7 + (V5 = V7) X 29.7 / 44.45 V10 + (V8 = V10) X 14.7 / 44.45 3CH V7 + (V5 = V7) X 27.4 / 44.45 V10 + (V8 = V10) X 17 / 44.45 3DH V7 + (V5 = V7) X 24.3 / 44.45 V10 + (V8 = V10) X 20.1 / 44.45 3EH V7 + (V5 = V7) X 20.1 / 44.45 V10 + (V8 = V10) X 24.3 / 44.45	35H	V7 + (V5 - VX) X 39 6 / 44.45	V10 + (V8 – V10) X 4.85 / 44.45
38H V7 + (V5 - V7) X 35.5 / 44.45 V10 + (V8 - V10) X 8.95 / 44.45 39H V7 + (V5 - V7) X 33.8 / 44.45 V10 + (V8 - V10) X 10.6 / 44.45 3AH V7 + (V5 - V7) X 31.8 / 44.45 V10 + (V8 - V10) X 12 / 44.45 3BH V7 + (V5 - V7) X 29.7 / 44.45 V10 + (V8 - V10) X 14.7 / 44.45 3CH V7 + (V5 - V7) X 27.4 / 44.45 V10 + (V8 - V10) X 17 / 44.45 3DH V7 + (V5 - V7) X 24.3 / 44.45 V10 + (V8 - V10) X 20.1 / 44.45 3EH V7 + (V5 - V7) X 20.1 / 44.45 V10 + (V8 - V10) X 24.3 / 44.45	36H	V7 + (V5 - V7) X 38.4 / 44.45	V10 + (V8 – V10) X 6.05 / 44.45
39H V7 + (V5 - V7) X 33.8 / 44.45 V10 + (V8 - V10) X10.6 / 44.45 3AH V7 + (V5 - V7) X 31.8 / 44.45 V10 + (V8 - V10) X 12 / 44.45 3BH V7 + (V5 - V7) X 29.7 / 44.45 V10 + (V8 - V10) X 14.7 / 44.45 3CH V7 + (V5 - V7) X 27.4 / 44.45 V10 + (V8 - V10) X 17 / 44.45 3DH V7 + (V5 - V7) X 24.3 / 44.45 V10 + (V8 - V10) X 20.1 / 44.45 3EH V7 + (V5 - V7) X 20.1 / 44.45 V10 + (V8 - V10) X 24.3 / 44.45	37H	V7 + (V5 V7) X 37 / 44.45	V10 + (V8 – V10) X 7.45 / 44.45
3AH V7 + (V5 - V7) X 31.8 / 44.45 V10 + (V8 - V10) X 12 / 44.45 3BH V7 + (V5 - V7) X 29.7 / 44.45 V10 + (V8 - V10) X 14.7 / 44.45 3CH V7 + (V5 - V7) X 27.4 / 44.45 V10 + (V8 - V10) X 17 / 44.45 3DH V7 + (V5 - V7) X 24.3 / 44.45 V10 + (V8 - V10) X 20.1 / 44.45 3EH V7 + (V5 - V7) X 20.1 / 44.45 V10 + (V8 - V10) X 24.3 / 44.45	38H	V7 + (V5 – V7) X 35.5 / 44.45	V10 + (V8 – V10) X 8.95 / 44.45
3BH V7 + (V5 - V7) X 29.7/ 44.45 V10 + (V8 - V10) X 14.7 / 44.45 3CH V7 + (V5 - V7) X 27.4 / 44.45 V10 + (V8 - V10) X 17 / 44.45 3DH V7 + (V5 - V7) X 24.3 / 44.45 V10 + (V8 - V10) X 20.1 / 44.45 3EH V7 + (V5 - V7) X 20.1 / 44.45 V10 + (V8 - V10) X 24.3 / 44.45	39H	V7 + (V5 – V7) X 33.8 / 44.45	V10 + (V8 – V10) X10.6 / 44.45
3CH V7 + (V5 - V7) X 27.4 / 44.45 V10 + (V8 - V10) X 17 / 44.45 3DH V7 + (V5 - V7) X 24.3 / 44.45 V10 + (V8 - V10) X 20.1 / 44.45 3EH V7 + (V5 - V7) X 20.1 / 44.45 V10 + (V8 - V10) X 24.3 / 44.45	3AH	V7 + (V5 – V7) X 31.8 / 44.45	V10 + (V8 – V10) X 12 / 44.45
3DH V7 + (V5 – V7) X 24.3 / 44.45 V10 + (V8 – V10) X 20.1 / 44.45 3EH V7 + (V5 – V7) X 20.1 / 44.45 V10 + (V8 – V10) X 24.3 / 44.45	3BH	V7 + (V5 – V7) X 29.7/ 44.45	V10 + (V8 – V10) X 14.7 / 44.45
3EH V7 + (V5 – V7) X 20.1 / 44.45 V10 + (V8 – V10) X 24.3 / 44.45	3CH	V7 + (V5 – V7) X 27.4 / 44.45	V10 + (V8 – V10) X 17 / 44.45
	3DH	V7 + (V5 – V7) X 24.3 / 44.45	V10 + (V8 – V10) X 20.1 / 44.45
3FH V7 V8	3EH	V7 + (V5 – V7) X 20.1 / 44.45	V10 + (V8 – V10) X 24.3 / 44.45
	3FH	V7	V8







6.6. Timing Characteristic (TA = 25°C, VDD = 3.3V)

6.6.1. For 800 x 480 panel (Dual gate mode/Cascade mode)

I. Dual gate mode

Table 16. Horizontal input timing

Parameter	Symbol	Value			Unit	Note
Horizontal display area	thd		800		DCLK	
DCLK fraguancy	folk	Min.	Тур.	Max		
DCLK frequency	fclk	28.2	29.2	46.5	MHz	
1 Horizontal Line	th	908	928	1088		thb+thpw=88
HSD pulse width	thpw	1	48	87	DCLK/	(DOLLK is
HSD Back Porch (Blanking)	thb	87	40	1		\\fixed.
HSD Front Porch	thfp	20	40	200	_ '	7.

Table 17. Vertical input timing

Parameter	Symbol	Min.	Тур.	Max.	Unit	Note
Vertical display area	tvd		480		У Н //	2
VSD period time	tv	517	525	712	#/	
VSD pulse width	tvpw	1 ,		3		tvpv/tvb=32H Is fixed
VSD Back Porch (Blanking)	tvb	31	1/34/	29	// // /	S 13 lixed
VSD Front Porch	tvfp	<u>(</u> 5	///3	290))H ²	

II. Cascade mode

Table 18. Horizontal input timing

Parameter	Symbol		Value	11	Unit	Note
Horizontal display area	tha	_ ((800		DCLK	
DCLK frequency	fclk	Min.	Jyp.	Max		
DCLK frequency	W CIK	28.2	29.2	40	MHz	
1 Horizontal Line	th	908	928	1088		thb+thpw=88
HSD pulse width	thpw)) \>1	48	87	DCLK	DCLK is
HSD Back Porch (Blanking)	thb	87	40	1	DOLIK	fixed.
HSD Front Porch	(th)fp	20	40	200		

Table 19. Vertical input timing

Parameter	Symbol	Min.	Тур.	Max.	Unit	Note
Vertical display area	tvd		480		Н	
VSD period time	tv	517	525	613	Н	
VSD pulse width	tvpw	1	1	3	Н	tvpw+tvb=32H Is fixed
VSD Back Porch (Blanking)	tvb	31	31	29	Н	13 lixeu
VSD Front Porch	tvfp	5	13	101	Н	



6.6.2. For 800×600 panel (Dual gate mode)

Table 20. Horizontal input timing

Parameter	Symbol		Value	Unit	Note	
Horizontal display area	thd		800		DCLK	
DCLK fraguancy	fclk	Min.	Тур.	Max		
DCLK frequency	ICIK	35.1	39.6	50	MHz	
1 Horizontal Line	th	908	1000	1088		thb+thpw=88
HSD pulse width	thpw	1	48	87	DCLK	DCLK is
HSD Back Porch (Blanking)	thb	87	40	1	DOLIK	fixed.
HSD Front Porch	thfp	20	112	200		

Table 21. Vertical input timing

					/ / /	
Parameter	Symbol	Min.	Тур.	Max.	Unit	Note
Vertical display area	tvd		600	/	(H)	7
VSD period time	tv	644	660	766	N X	
VSD pulse width	tvpw	1	1	3\\	H	tvpw+tvb=39H Is fixed
VSD Back Porch (Blanking)	tvb	38	38	(\\36	Ун //	13 TIXCU
VSD Front Porch	tvfp	5	21	127	()	

Table 22. Horizontal input timing

VOD TTORKT GIGHT	ινιρ	U	_\\\\/) \\ - V	$\sim \sim $			
6.6.3. For 400 × 480 panel (Dual gate mode) Table 22. Horizontal input timing								
Parameter	Symbol		Value		Unit			
Horizontal display area	thd		400		DCLK			
DCI K fraguency	follo	\\Min_	Тур.	Max				
DCLK frequency	fclk	1 15.8	16.4	29.4	MHz			
1 Horizontal Line	th	508	520	688		thb+thpw=88		
HSD pulse width	thpw	1	48	87	DCLK	DCLK is		
HSD Back Porch (Blanking)	thb	87	40	1		fixed.		
HSD Front Rorch	thfp	20	32	200				

Table 23. Vertical input timing

rapic 20: wertloar input tilling						
Parameter	Symbol	Min.	Тур.	Max.	Unit	
Vertical display area	tvd		480		Н	
VSD period time	tv	517	525	712	Н	
VSD pulse width	tvpw	1	1	3	Н	tvpw+tvb=32H Is fixed
VSD Back Porch (Blanking)	tvb	31	31	29	Н	13 lixed
VSD Front Porch	tvfp	5	13	200	Н	



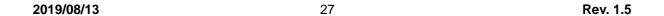
6.6.4. For 400 × 240 panel (Dual gate mode)

Table 24. Horizontal input timing

Parameter	Symbol	Value			Unit	
Horizontal display area	thd		400		DCLK	
DCLK frequency	fclk	Min.	Тур.	Max		
	ICIK	8	8.4	18.9	MHz	
1 Horizontal Line	th	508	520	688		thb+thpw=88
HSD pulse width	thpw	1	48	47	DCLK	DCLK is
HSD Back Porch (Blanking)	thb	87	40	1	DOLK	fixed.
HSD Front Porch	thfp	20	32	200		~ //

Table 25. Vertical input timing

Parameter	Symbol	Min.	Тур.	Max.	Unit	
Vertical display area	tvd		240		(4H)	
VSD period time	tv	262	270	457	A	
VSD pulse width	tvpw	1	1	3	, H	tvpw+tvb=17H Is fixed
VSD Back Porch (Blanking)	tvb	16	16	(14)	Y H) IS TIXEU
VSD Front Porch	tvfp	5	13/	200	片	



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7 FLECTRICAL SPECIFICATION

7.1. Absolute Maximum Ratings

Table 26. VOLTAGE (TA = 25°C, VSS = VSSA = 0V)

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

Table 27. TEMPERATURE

	Min.	Max.	Unit
Operating temperature	-20	+85	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Storage temperature	-55	(1 2\$	//√°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.

7.2. Recommended Operating Range

Table 28. Recommended Operating Range (TA -20 to 85°C, VS = VSSA=0V)

Parameter	Symbol	Min.	Тур.	Max.	Unit
Digital supply voltage(Dual gate)) DDD	> 1.7	3.3	3.6	V
Digital supply voltage(Cascade)	VDD)	(D. 7)	3.3	3.6	V
Analog supply voltage	V DDA	() 6.5	-	13.5	V
Digital input voltage) VIV		-	VDD	V

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7.3. DC Characteristics

Table 29. DC Characteristics

 $(TA = -20 \text{ to } 85^{\circ}C, VDD = 1.7 \text{ to } 3.6V, VDDA = 6.5 \text{ to } 13.5V, VSS = VSSA = 0V)$

Parameter	Symbol	Condition	Min.	Тур.	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	li	For the digital circuit	-	-	±1	μΑ
High level output voltage	Voh	loh= -400 μA	VDD-0.4	-	A	V
Low level output voltage	Vol	Iol= +400 Ma	-	-	V8\$+0.4	
Pull low/high resistor	Ri	For the digital input pin @ VDD=3.3V	200K	250K	360K	ohm
Digital Operation current	ldd	Fclk=50 MHz, FLD=48KHz, VDD=3.3V	- (14	18	mA
Digital Stand-by current	lst1	Clock and all functions are stopped		10	50	μΑ
Analog Operating Current	ldda	No load, Fclk=50MHz, FLD=48KHz @ VDDA=10V, V1=8V, V14=0.4V			12	mA
Analog Stand-by current	lst2	No load, Clock and all functions are stopped		10	50	μΑ
Input level of V1 ~ V7	Vref1	Gamma correction voltage input(Cascade Mode)	0.4*VDDA	<i>)</i> -	VDDA-1	V
Input level of V8 ~ V14	Vref2	Gamma/correction voltage input (Cascade Mode)	VSSA+1	-	0.6*VDDA	V
Input level of V1 ~ V7	Vref3	Gamma correction voltage input Dual Gate Mode)	0.4*VDDA	-	VDDA-0.1	V
Input level of V8 ~ V14	Vre/4	Gamma correction voltage input(Dual Gate Mede)	VSSA+0.1	-	0.6*VDDA	V
Output Voltage deviation	Vod1	Vo = V\$\$A+0.1V ~ V\$\$A+0.5V and Vo = VDDA-0.5V ~ VDDA-0.1V	-	±20	±35	mV
Output Voltage deviation	Vod2	Vo = VSSA+0.5V ~ VDDA-0.5V	-	±15	±20	mV
Output Voltage Offset between Chips	Voc	Vo = VSSA+0.5V ~ VDDA-0.5V	-	-	±20	mV
Dynamic Range of Output	Vdr	SO1 ~ SO1200	0.1	-	VDDA-0.1	V
Sinking Current of Outputs	lOLy	SO1 ~ SO1200; Vo=0.1V v.s 1.0V , VDDA=13.5V	80	-	-	uA
Driving Current of Outputs	ЮНу	SO1 ~ SO1200; Vo=13.4V v.s 12.5V , VDDA=13.5V	80	-	-	uA
Resistance of Gamma Table	Rg	Rn: Internal gamma resistor	0.7*Rn	1.0*Rn	1.3*Rn	ohm



7.4. AC Characteristics

Table 30. AC Characteristics

 $(TA = -20 \text{ to } 85^{\circ}C, VDD = 1.7 \text{ to } 3.6V, VDDA = 6.5 \text{ to } 13.5V, VSS = VSSA = 0V)$

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
VDD Power On Slew rate	T _{POR}	From 0V to 90% VDD	-	-	20	ms
RSTB pulse width	T _{RST}	CLKIN = 50MHz	50	-	-	us
CLKIN cycle time	Tcph	-	20	-	-	ns
CLKIN pulse duty	Tcwh	-	40	50	60 <	%
VSD setup time	Tvst	-	8	-	M.	ns
VSD hold time	Tvhd	-	8	-//	11-15	30
HSD setup time	Thst	-	8	75/	1/1	ns
HSD hold time	Thhd	-	8		\ - •	ns
Data set-up time	Tdsu	DR[7:0], DG[7:0], DB[7:0] to CLKIN	8	(3)	-	ns
Data hold time	Tdhd	DR[7:0], DG[7:0], DB[7:0] to CLKIN	\\ <u>8</u>	<i>/</i> // -	-	ns
DEN setup time	Tesu	-	1/8/	-//	-	ns
DEN hold time	Tehd	-	8	$\sim \ll$	/ -	ns
Output stable time	Tsst	10% to 90% target voltage CL=120pF, R=10K ohm			6	us

7.5. Timing Table

Table 31. Parallel 24-bit RGB Mode

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
CLKIN Frequency(Dual gate)	FCIK	∀ÐD = 3.3₹/	<i>))</i> -	29.2	46.5	MHz
CLKIN Cycle Time(Dual gate)	Yctk		22	34	-	ns
CLKIN Frequency(cascade)	Folk	VBB = 3.3V	-	29.2	40	MHz
CLKIN Cycle Time(cascade)	Tclk <		25	34	-	ns
CLKIN Pulse Duty	Tcwh	TCIK .	40	50	60	%
Time from HSD to Source Output	Thso		-	46	-	CLKIN
Time from HSD to LD	Thld	-	-	46	-	CLKIN
Time from HSD to STV	T)hstv	-	-	2	-	CLKIN
Time from HSD to CKV	Thckv	-	-	20	-	CLKIN
Time from HSD to OEV	Thoev	-	-	4	-	CLKIN
LD Rulse W idth	Twld			10		CLKIN
CKV Pulse Width	Twckv	-	-	66	-	CLKIN
OEV Pulse Width	Twoev	-	-	74	-	CLKIN

7.6. Timing Waveform

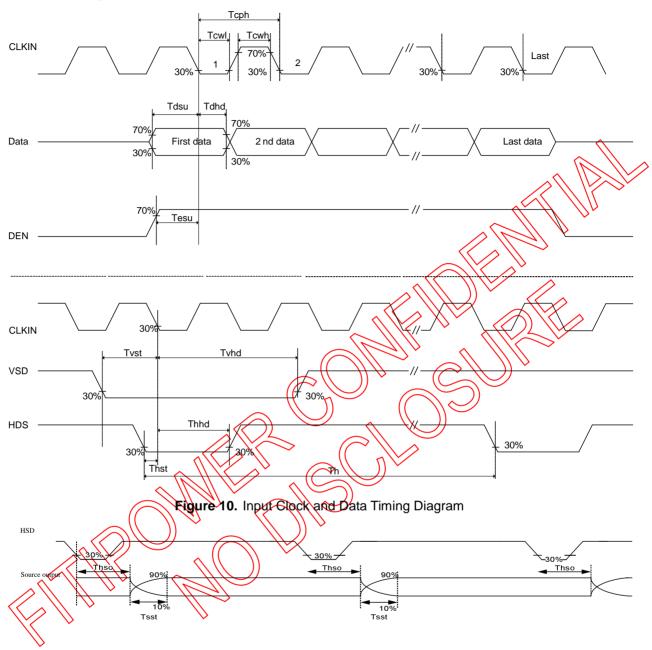


Figure 11. Source Output Timing Diagram(Cascade)

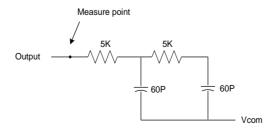


Figure 12. Output load condition

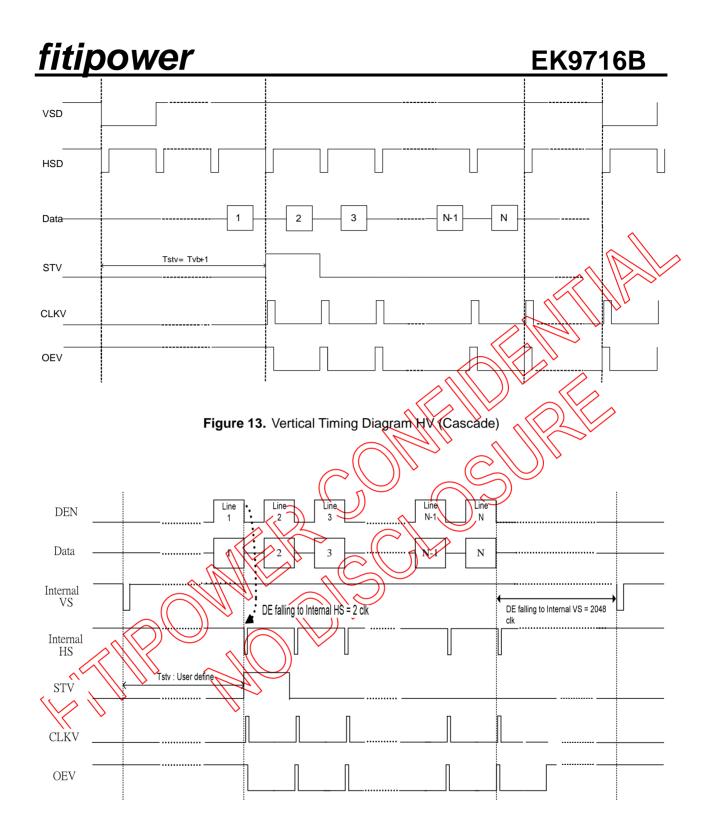


Figure 14. Vertical Timing Diagram DE (Cascade)



EK9716B

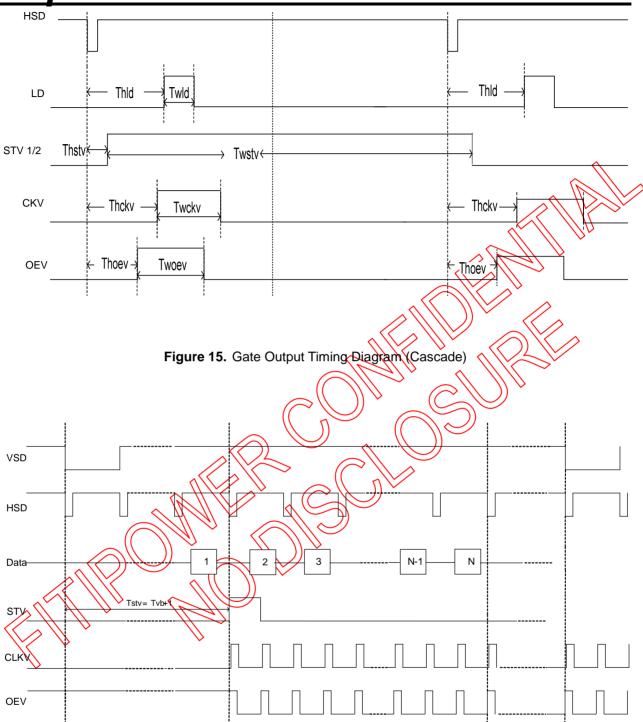


Figure 16. Vertical Timing Diagram HV (Dual Gate)

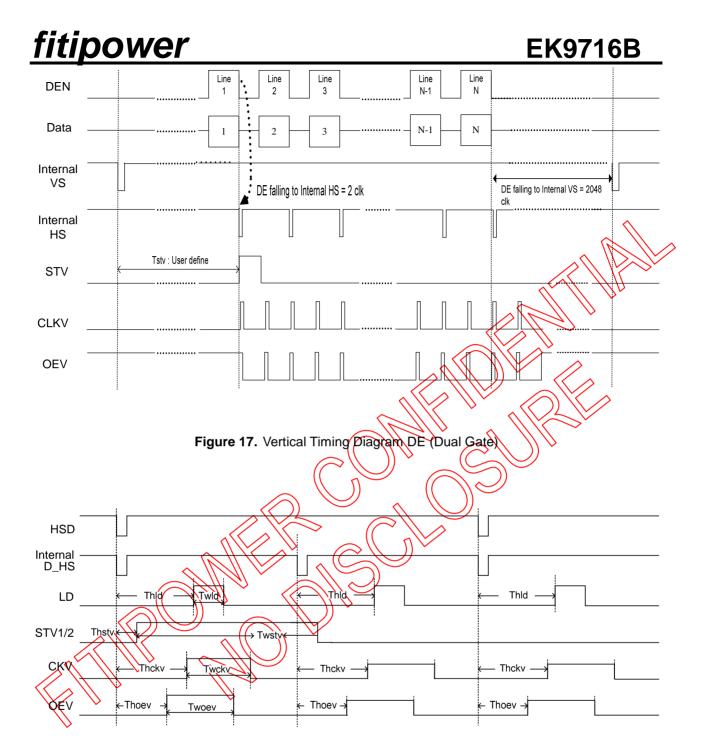


Figure 18. Gate Output Timing Diagram (Dual Gate)

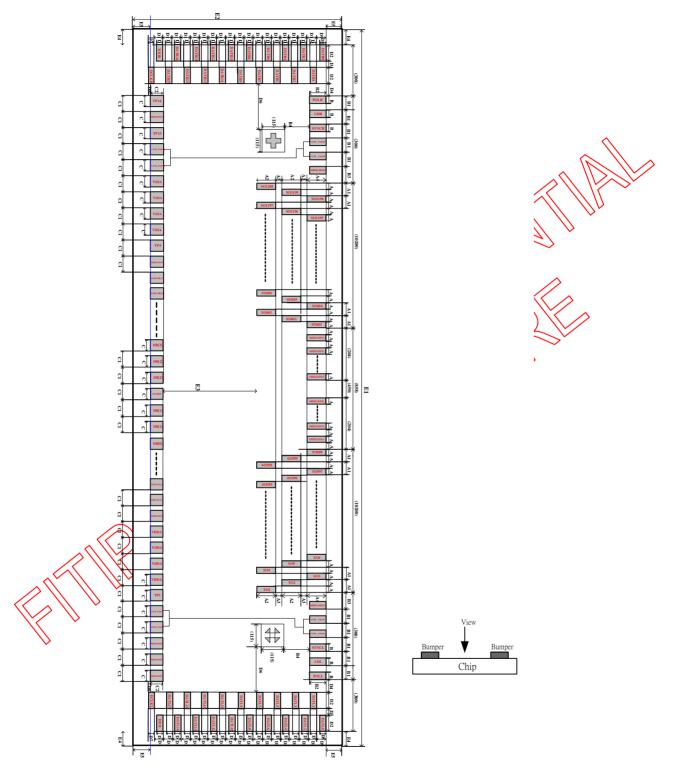


Figure 19. Pad Outline Dimension (Bump Side)

8.1. Alignment Mark

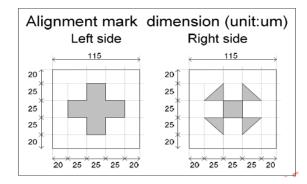


Figure 20. Alignment Mark

8.2. Pad Information

Symbol	Dimension(um)		Symbol	Dimension(um)	
A	14	<	(D)	40	2
A1	34	(F	103	(50)	> /
A2	65) D3	\approx 80 $^{\circ}$	
A3	71		D4	97	
A4	65		D5_	6.5	
В	26		D6	193.5	
B1	\$70		D7	26	
B2	50		D8	23.5	
B3\\	49.5		D9	35.5	
B 4	197(5	<u> </u>	E1	22557 (max) *	
	740		E2	873 (max) *	
C1	85		E4	74.5(max)	
C2	60		E5	46(max)	
D	26				

*Note: Chip dimension (not include srcibe line)



8.3. Pad Coordinates(No bump shift)

PAD No.	PAD Name	X-axis	Y-axis	w	Н
1	TRIM_DUM[0]	-10922.5	-353	40	60
2	SHIELDING[1]	-10837.5	-353	40	60
3	TRIM_DUM[1]	-10752.5	-353	40	60
4	COM_PASSR	-10667.5	-353	40	60
5	COM_PASSR	-10582.5	-353	40	60
6	VSSA	-10497.5	-353	40	60
7				40	60
	VSSA	-10412.5	-353		
8	VSSA	-10327.5	-353	40	60
9	VSSA	-10242.5	-353	40	60
10	TIN_DUM[0]	-10157.5	-353	40	60
11	SHIELDING[2]	-10072.5	-353	40	60
12	GMAVR[1]	-9987.5	-353	40	60
13	GMAVR[1]	-9902.5	-353	40	60
14	SHIELDING[3]	-9817.5	-353	40	60
15	GMAVR[2]	-9732.5	-353	40	60
16	GMAVR[2]	-9647.5	-353	40	60
17	SHIELDING[4]	-9562.5	-353	40	60
18	GMAVR[3]	-9477.5	-353	40	60
19	GMAVR[3]	-9392.5	-353	40	60
20	SHIELDING[5]	-9392.5	-353	40	60
21	GMAVR[4]	-9222.5	-353	40	60
22	GMAVR[4]	-9137.5	-353	40	60
23	SHIELDING[6]	-9052.5	-353	40	60
24	GMAVR[5]	-8967.5	-353	40	60
25	GMAVR[5]	-8882.5	-353	40	60
26	SHIELDING[7]	-8797.5	-353	40	60
27	GMAVR[6]	-8712.5	-353	40	60
28	GMAVR[6]	-8627.5	-353	40	60
29	SHIELDING[8]	-8542.5	-353	40	60
30	GMAVR[7]	-8457.5	-353		1
31	GMAVR[7]	-8372.5	-353	40	60
32	SHIELDING[9]	-8287.5	-35%	40	60
33	GMAVR[8]	-8202.5	3253	40	60
34	GMAVR[8]	-8117.5	353	40	60
			/ 	40	_ //
35	FSOURCE_L	-8032.5	133		60
36	GMAVR[9]	-7947.5	-353	40	60
37	GMAVR[9]	-₹862.5	-353	40	(60)
38	SHIELDING NO	-11975	-353	40	60
39	GMAVRN0]	-7692.5	-353	40	60
40	CMAVR[10]	-7607.5	-353	40	60
41	SHIRLDING[11]	-7522.5	122	40	60
/pl	GMA (R)[1]	5405.5			
43/		-7437.5	-55.5	\sim 40	60
	GMAVR[11]	-7352.5	-353	40	60
4	The same of the sa	70.50.5	- //-	40	
\' -	GMAVR[11]	-7352.5	-353	40	60
4	GMAVR[11] SHIELDING[12]	-7352.5 -7267.5	-353 -353	40 40	60
45	SMAVR[11] SHIELDING[12] GMAVR[12] GMAVR[12]	-7352.5 -7267.5 -7182.5 -7097.5	-353 -353 -353	40 40 40	60 60 60
45 46 47	GMAVR[11] SHIELDING[12] GMAVR[12] GMAVR[12] SHIELDING[13]	-7352.5 -7267.5 -7182.5 -7097.5 -7012.5	-353 -353 -353 -353 -353	40 40 40 40 40	60 60 60 60
45 46 47 48	SHIELDING[12] GMAVR[12] GMAVR[12] GMAVR[12] SHIELDING[13] GMAVR[13]	-7352.5 -7267.5 -7182.5 -7097.5 -7012.5 -6927.5	-353 -353 -353 -353 -353 -353	40 40 40 40 40 40	60 60 60 60 60
45 46 47 48 49	SHIELDING[12] GMAVR[12] GMAVR[12] GMAVR[12] SHIELDING[13] GMAVR[13]	-7352.5 -7267.5 -7182.5 -7097.5 -7012.5 -6927.5 -6842.5	-353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40	60 60 60 60 60 60
45 46 47 48 49 50	GMAVR[11] SHIELDING[12] GMAVR[12] GMAVR[12] SHIELDING[13] GMAVR[13] GMAVR[13] SHIELDING[14]	-7352.5 -7267.5 -7182.5 -7097.5 -7012.5 -6927.5 -6842.5 -6757.5	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40	60 60 60 60 60 60
45 46 47 48 49 50 51	GMAVR[11] SHIELDING[12] GMAVR[12] GMAVR[12] SHIELDING[13] GMAVR[13] GMAVR[13] SHIELDING[14] GMAVR[14]	-7352.5 -7267.5 -7182.5 -7097.5 -7012.5 -6927.5 -6842.5 -6757.5	-353 -353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60
45 46 47 48 49 50 51 52	GMAVR[11] SHIELDING[12] GMAVR[12] GMAVR[12] SHIELDING[13] GMAVR[13] GMAVR[13] GMAVR[14] GMAVR[14]	-7352.5 -7267.5 -7182.5 -7097.5 -7012.5 -6927.5 -6842.5 -6757.5 -6672.5 -6587.5	-353 -353 -353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60 60
45 46 47 48 49 50 51	GMAVR[11] SHIELDING[12] GMAVR[12] GMAVR[12] SHIELDING[13] GMAVR[13] GMAVR[13] SHIELDING[14] GMAVR[14]	-7352.5 -7267.5 -7182.5 -7097.5 -7012.5 -6927.5 -6842.5 -6757.5	-353 -353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60
45 46 47 48 49 50 51 52	GMAVR[11] SHIELDING[12] GMAVR[12] GMAVR[12] SHIELDING[13] GMAVR[13] GMAVR[13] GMAVR[14] GMAVR[14]	-7352.5 -7267.5 -7182.5 -7097.5 -7012.5 -6927.5 -6842.5 -6757.5 -6672.5 -6587.5	-353 -353 -353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60 60
45 46 47 48 49 50 51 52 53	GMAVR[11] SHIELDING[12] GMAVR[12] GMAVR[12] SHIELDING[13] GMAVR[13] GMAVR[13] GMAVR[14] GMAVR[14] GMAVR[14] TEST[0]	-7352.5 -7267.5 -7182.5 -7097.5 -7012.5 -6927.5 -6842.5 -6757.5 -6672.5 -6587.5 -6502.5	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60 60
45 46 47 48 49 50 51 52 53 54	GMAVR[11] SHIELDING[12] GMAVR[12] GMAVR[12] SHIELDING[13] GMAVR[13] GMAVR[13] SHIELDING[14] GMAVR[14] GMAVR[14] TEST[0] T_IBIAS	-7352.5 -7267.5 -7182.5 -7097.5 -7012.5 -6927.5 -6842.5 -6757.5 -6672.5 -6587.5 -6502.5 -6417.5	-353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60 60 60
45 46 47 48 49 50 51 52 53 54 55	GMAVR[11] SHIELDING[12] GMAVR[12] GMAVR[12] SHIELDING[13] GMAVR[13] GMAVR[13] SHIELDING[14] GMAVR[14] GMAVR[14] TEST[0] T_IBIAS SHIELDING[15]	-7352.5 -7267.5 -7182.5 -7097.5 -7012.5 -6927.5 -6842.5 -6757.5 -6672.5 -6502.5 -6417.5 -6332.5	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60 60 60
45 46 47 48 49 50 51 52 53 54 55	GMAVR[11] SHIELDING[12] GMAVR[12] GMAVR[12] SHIELDING[13] GMAVR[13] GMAVR[13] SHIELDING[14] GMAVR[14] GMAVR[14] TEST[0] T_IBIAS SHIELDING[15] SHIELDING[16]	-7352.5 -7267.5 -7182.5 -7097.5 -7012.5 -6927.5 -6842.5 -6757.5 -6672.5 -6587.5 -6417.5 -6332.5 -6247.5	-353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40 40 40 40 4	60 60 60 60 60 60 60 60 60 60
48 46 47 48 49 50 51 52 53 54 55 56 57 58	SHIELDING[15] SHIELDING[12] GMAVR[12] GMAVR[12] SHIELDING[13] GMAVR[13] GMAVR[13] SHIELDING[14] GMAVR[14] GMAVR[14] TEST[0] T_IBIAS SHIELDING[15] SHIELDING[16] SHIELDING[17] SHIELDING[18]	-7352.5 -7267.5 -7182.5 -7097.5 -7012.5 -6927.5 -6842.5 -6757.5 -6672.5 -6587.5 -6332.5 -6247.5 -6162.5 -6162.5 -6077.5	-353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40 40 40 40 4	60 60 60 60 60 60 60 60 60 60
45 46 47 48 49 50 51 52 53 54 55 56 57	GMAVR[11] SHIELDING[12] GMAVR[12] GMAVR[12] SHIELDING[13] GMAVR[13] GMAVR[13] SHIELDING[14] GMAVR[14] GMAVR[14] TEST[0] T_IBIAS SHIELDING[15] SHIELDING[16] SHIELDING[16]	-7352.5 -7267.5 -7182.5 -7097.5 -7012.5 -6927.5 -6842.5 -6757.5 -6672.5 -6587.5 -6417.5 -6332.5 -6247.5 -6162.5	-353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40 40 40 40 4	60 60 60 60 60 60 60 60 60 60

PAD No.	PAD Name	V ovic	Y-axis	w	н
		X-axis			
61	BIST	-5822.5	-353	40	60
62	TIN_DUM[1]	-5737.5	-353	40	60
63	VDDA	-5652.5	-353	40	60
64	VDDA	-5567.5	-353	40	60
65	VDDA	-5482.5	-353	40	60
66	VDDA	-5397.5	-353	40	60
67	SHIELDING[19]	-5312.5	-353	40	60
68	VSSA	-5227.5	-353	40	60
69	VSSA	-5142.5	-353	40	60
70	VSSA	-5057.5	-353	40	100
71	VSSA	-4972.5	-353	40	
				> / / / /	//\>
72	TEST[1]	-4887.5	-353	40	60
73	VSS	-4802.5	7358	40	60
74	VSS	-4717.5	438	40	60
75	VSS	-46325	353	\searrow_0	60
76	VSS	-4847.5	-353	40	60
77	TEST_SD[0]	-462.5	-353	40	60
78	DIMO	4377.5	-353	40	60
79	/NIMQ	4392.5	-353	40	60
80	TEST SD(1)	4207.5	-353	1 0	60
	VDD VDD	-4122.5	33	40	60
- 3//	\checkmark			\ //	
82	VDD	-4037.5	-3/3/	40	60
183	VDD	-3952.5	353	40	60
84	VDD	3867.5	13/23	40	60
1 8/2	TIN_DUM(2)	-3787.5	-353	40	60
86	DBGATE	-3697.5	-353	40	60
87	DBGANE	-3612.5	-353	40	60
88	CSB	3527.5	-353	40	60
~ 89	MASL	-3442.5	-353	40	60
186	MASL	-3357.5	-353	40	60
\sim $+$	_				
91	SCL	-3272.5	-353	40	60
92	MASLOC	-3187.5	-353	40	60
93	MASLOC	-3102.5	-353	40	60
94	SDA	-3017.5	-353	40	60
95	RES[0]	-2932.5	-353	40	60
96	RES[0]	-2847.5	-353	40	60
97	CE_EN_DUM	-2762.5	-353	40	60
98	IFSEL	-2677.5	-353	40	60
99	RES[1]	-2592.5	-353	40	60
100	RES[1]	-2507.5	-353	40	60
101	CFSEL_DUM	-2422.5	-353	40	60
102	CFSEL_DUM	-2337.5	-353	40	60
103	DASHD[1]	-2252.5	-353	40	60
104	VSD	-2167.5	-353	40	60
105	VSD	-2082.5	-353	40	60
106	DASHD[2]	-1997.5	-353	40	60
107	HSD	-1912.5	-353	40	60
108	HSD	-1827.5	-353	40	60
109	DASHD[3]	-1742.5	-353	40	60
110	DEN	-1657.5	-353	40	60
111	DEN	-1572.5	-353	40	60
112	DASHD[4]	-1487.5	-353	40	60
113	CLKIN	-1402.5	-353	40	60
114	CLKIN	-1317.5	-353	40	60
115	DASHD[5]	-1232.5	-353	40	60
116	DB[7]	-1147.5	-353	40	60
117	DB[7]	-1062.5	-353	40	60
118	DB[6]	-977.5	-353	40	60
119	DB[6]	-892.5	-353	40	60
120	DASHD[6]	-807.5	-353	40	60

PAD No.	PAD Name	X-axis	Y-axis	W	Н
121	DB[5]	-722.5	-353	40	60
122	DB[5]	-637.5	-353	40	60
123	DB[4]	-552.5	-353	40	60
124	DB[4]	-467.5	-353	40	60
125	DASHD[7]	-382.5	-353	40	60
126	DB[3]	-297.5	-353	40	60
127	DB[3]	-212.5	-353	40	60
128	DB[2]	-127.5	-353	40	60
129	DB[2]	-42.5	-353	40	60
130	DASHD[8]	42.5	-353	40	60
131	DB[1]	127.5	-353	40	60
132	DB[1]	212.5	-353	40	60
133	DB[0]	297.5	-353	40	60
134		382.5	-353	40	60
	DB[0]				
135	DASHD[9]	467.5	-353	40	60
136	DG[7]	552.5	-353	40	60
137	DG[7]	637.5	-353	40	60
138	DG[6]	722.5	-353	40	60
139	DG[6]	807.5	-353	40	60
140	DASHD[10]	892.5	-353	40	60
141	DG[5]	977.5	-353	40	60
142	DG[5]	1062.5	-353	40	60
143	DG[4]	1147.5	-353	40	60
144	DG[4]	1232.5	-353	40	60
145	DASHD[11]	1317.5	-353	40	60
146	DG[3]	1402.5	-353	40	60
147	DG[3]	1487.5	-353	40	60
148	DG[2]	1572.5	-353	40	60 /
149	DG[2]	1657.5	-353	40	60
150	DASHD[12]	1742.5	-353	40	60
130					
					\sim
151	DG[1]	1827.5	-353	40	
151 152	DG[1] DG[1]	1827.5 1912.5	-353 -353	40	
151 152 153	DG[1] DG[1] DG[0]	1827.5 1912.5 1997.5	-353 -353 -353	40 40 40	60
151 152	DG[1] DG[1]	1827.5 1912.5	-353 -353 -353 -353	40 40 40	
151 152 153	DG[1] DG[1] DG[0]	1827.5 1912.5 1997.5	-353 -353 -353	40 40 40	60
151 152 153 154	DG[1] DG[1] DG[0] DG[0]	1827.5 1912.5 1997.5 2082.5	-353 -353 -353 -353	40 40 40	60
151 152 153 154 155	DG[1] DG[1] DG[0] DG[0] DG[0] DASHD[13]	1827.5 1912.5 1997.5 2082.5 2167.5	-353 -353 -353 -353	40 40 40 40	60
151 152 153 154 155 156	DG[1] DG[1] DG[0] DG[0] DG[0] DASHD[13] DR[7]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5	-353 -353 -353 -353 -353 -353	40 40 40 40 40 40	60 60 60
151 152 153 154 155 156 157	DG[1] DG[1] DG[0] DG[0] DASHD[13] DR[7]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.8	-353 -353 -353 -353 -353 353	40 40 40 40 40 40	60 60 60 60
151 152 153 154 155 156 157 158	DG[1] DG[0] DG[0] DG[0] DASHD[13] DR[7] DR[7]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.4	-353 -353 -353 -353 -353 363 363	40 40 40 40 40 40 40	60
151 152 153 154 155 156 157 158	DG[1] DG[0] DG[0] DASHD[13] DR[7] DR[7] DR[6] DR[6]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.1 2422.6	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40	60 60 60 60
151 152 153 154 155 156 157 158 159	DG[1] DG[0] DG[0] DASHD[13] DR[7] DR[7] DR[6] DR[6]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.5 2422.5 2507.5	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40	60 60 60 60
151 152 153 154 155 156 157 158 159 160	DG[1] DG[0] DG[0] DASHD[13] DR[7] DR[7] DR[6] DR[6] DR[6] DASHD[N]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.5 2422.5 2507.5	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40	60 60 60 60 60 60
151 152 153 154 155 156 157 158 159 160	DG[1] DG[0] DG[0] DASHD[13] DR[7] DR[7] DR[6] DR[6] DASHD[N;]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.4 2422.6 2507.5 2502.5	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60
151 152 153 154 155 156 157 158 159 160 161	DG[1] DG[0] DG[0] DASHD[13] DR[7] DR[7] DR[6] DR[6] DASHIM VI DR[5] DR[4]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.4 2422.6 2307.5 2677.5 2847.5	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40	60 60 60 60 60 60 60
151 152 153 154 155 156 157 158 159 160 161 162	DG[1] DG[1] DG[0] DG[0] DASHD[13] DR[7] DR[7] DR[6] DR[6] DASHD[N] PR[5] DR[5] DR[4] DASHD[15]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.4 2422.5 2507.5 2677.5 2847.5 2932.5 3017.5	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60
151 152 153 154 155 156 157 158 159 160 161 162	DG[1] DG[1] DG[0] DG[0] DASHD[13] DR[7] DR[7] DR[6] DR[6] DASHD[N] DR[5] DR[4] DR[4] DR[4] DR[3]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.4 2422.5 2507.5 2677.5 2847.5 2932.5 3017.5 3102.5	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40 40	60 60 60 60 60 60
151 152 153 154 155 156 157 158 159 160 161 162 164 164	DG[1] DG[1] DG[0] DG[0] DASHD[13] DR[7] DR[7] DR[6] DR[6] DASHD[N] DR[5] DR[4] DR[4] DR[4] DR[3] DR[3]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.4 2422.5 2507.5 2677.5 2847.5 2932.5 3017.5 3102.5 3187.5	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60
151 152 153 154 155 156 157 158 159 160 161 162 164 164 167	DG[1] DG[1] DG[0] DG[0] DASHD[13] DR[7] DR[6] DR[6] DASHIN[N] PR[5] DASHIN[N] DR[4] DR[4] DASHD[15] DR[3] DR[3]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.4 2422.5 2507.5 2677.5 2847.5 2932.5 3017.5 3102.5 3187.5 3272.5	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40 40 40 40 4	60 60 60 60 60 60 60
151 152 153 154 155 156 157 158 159 160 161 162 164 165 167	DG[1] DG[1] DG[0] DG[0] DASHD[13] DR[7] DR[6] DR[6] DASHD[M] PR[5] DR[4] DR[4] DASHD[15] DR[3] DR[3] DR[3]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.4 2422.5 2507.5 2677.5 2847.5 2932.5 3017.5 3102.5 3187.5 3272.5	-353 -353	40 40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60
151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 167 168 169 170	DG[1] DG[0] DG[0] DG[0] DASHD[13] DR[7] DR[6] DR[6] DASHIM VI DR[5] DR[4] DR[4] DR[3] DR[3] DR[3] DR[2] DR[2]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.4 2422.5 2507.5 2677.5 2847.5 2932.5 3017.5 3102.5 3187.5 3272.5 3442.5	-353 -353	40 40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60 60
151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 167 168 169 170	DG[1] DG[0] DG[0] DG[0] DASHD[13] DR[7] DR[6] DR[6] DASHD[14] DR[5] DR[4] DR[4] DR[3] DR[3] DR[2] DR[1]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.7 2422.6 2397.5 2677.5 2847.5 2932.5 3017.5 3102.5 3187.5 3272.5 3357.5 3442.5 3527.5	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60 60
151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 167 168 169 170 171	DG[1] DG[0] DG[0] DG[0] DASHD[13] DR[7] DR[6] DR[6] DASHIN NI DR[5] DR[4] DR[4] DR[3] DR[3] DR[2] DR[2] DR[1] DR[1]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.7 2422.6 2397.5 2677.5 2847.5 2932.5 3017.5 3102.5 3187.5 3272.5 3357.5 3442.5 3612.5	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60 60 60 60
151 152 153 154 155 156 157 158 159 160 161 162 163 164 167 168 169 170 171 172 173	DG[1] DG[0] DG[0] DG[0] DASHD[13] DR[7] DR[6] DR[6] DASHD[14] DR[5] DR[4] DR[4] DR[3] DR[3] DR[2] DR[1]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.7 2422.6 2377.5 262.5 2847.5 2932.5 3102.5 3187.5 3272.5 3357.5 3442.5 3697.5	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60 60 60 60 60
151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 167 168 169 170 171	DG[1] DG[0] DG[0] DG[0] DASHD[13] DR[7] DR[6] DR[6] DASHIN NI DR[5] DR[4] DR[4] DR[3] DR[3] DR[2] DR[2] DR[1] DR[1]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.7 2422.6 2397.5 2677.5 2847.5 2932.5 3017.5 3102.5 3187.5 3272.5 3357.5 3442.5 3612.5	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60 60 60 60
151 152 153 154 155 156 157 158 159 160 161 162 163 164 167 168 169 170 171 172 173	DG[1] DG[0] DG[0] DG[0] DASHD[13] DR[7] DR[6] DR[6] DASHIN[N] DR[5] DR[4] DR[4] DR[3] DR[3] DR[2] DR[2] DR[1] DR[1] DR[1] DR[1]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.7 2422.6 2377.5 262.5 2847.5 2932.5 3102.5 3187.5 3272.5 3357.5 3442.5 3697.5	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60 60 60 60 60
151 152 153 154 155 156 157 158 159 160 161 162 163 164 167 168 169 170 171 172 173 174	DG[1] DG[0] DG[0] DG[0] DASHD[13] DR[7] DR[6] DR[6] DASHD[N] DR[5] DR[4] DR[4] DR[3] DR[3] DR[2] DR[2] DR[1] DR[1] DR[1] DR[1] DR[1]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.7 2422.6 2377.5 262.5 2847.5 2932.5 3017.5 3102.5 3187.5 3272.5 3357.5 3442.5 3527.5 3612.5 3782.5	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60 60 60 60 60 60
151 152 153 154 155 156 157 158 159 160 161 162 163 164 167 168 169 170 171 172 173 174 175	DG[1] DG[0] DG[0] DG[0] DASHD[13] DR[7] DR[7] DR[6] DASHD[N] DR[6] DASHD[N] DR[3] DR[4] DR[3] DR[3] DR[2] DR[2] DR[1] DR[1] DR[1] DR[1] DR[1] DR[1]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.7 2422.6 2377.5 262.5 2847.5 2932.5 3017.5 3102.5 3187.5 3272.5 3357.5 3442.5 3697.5 3612.5 3782.5 3867.5	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60 60 60 60 60 60
151 152 153 154 155 156 157 158 159 160 161 162 163 164 167 168 169 170 171 172 173 174 175 176	DG[1] DG[0] DG[0] DG[0] DASHD[13] DR[7] DR[7] DR[6] DR[6] DASHD[N] DR[5] DR[4] DR[4] DR[3] DR[3] DR[2] DR[2] DR[1] DR[1] DR[1] DR[1] DR[1] DR[1] DR[1] DR[0] DR[0] DASHD[17]	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.7 2422.5 2377.5 2422.5 2377.5 2422.5 2377.5 2422.5 2377.5 2422.5 2377.5 2422.5 247.5 2932.5 3017.5 3102.5 3187.5 3272.5 3357.5 3442.5 3527.5 3612.5 3697.5 3782.5 3867.5	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60 60 60 60 60 60 60
151 152 153 154 155 156 157 158 159 160 161 162 163 164 167 168 169 170 171 172 173 174 175 176	DG[1] DG[0] DG[0] DG[0] DASHD[13] DR[7] DR[7] DR[6] DASHD[N] DR[6] DASHD[N] DR[4] DR[3] DR[3] DR[2] DR[2] DR[1] DR[1] DR[1] DR[1] DR[1] DR[1] DR[0] DR[0] DASHD[17] TIN_DUM[3] MODE	1827.5 1912.5 1997.5 2082.5 2167.5 2252.5 2337.7 2422.5 2377.5 2422.5 2377.5 2422.5 2377.5 2422.5 2377.5 2422.5 2377.5 2422.5 2377.5 2422.5 2377.5 2422.5 2377.5 2422.5 2377.5 2422.5 2377.5 2422.5 2377.5 3102.5 3187.5 3272.5 3357.5 3442.5 3527.5 3612.5 3697.5 3782.5 3867.5 3952.5 4037.5	-353 -353 -353 -353 -353 -353 -353 -353	40 40 40 40 40 40 40 40 40 40	60 60 60 60 60 60 60 60 60 60 60 60 60 6

PAD No.	PAD Name	X-axis	Y-axis	W	Н
181	TIN_DUM[4]	4377.5	-353	40	60
182	DITHB	4462.5	-353	40	60
183	DITHB	4547.5	-353	40	60
184	VSET	4632.5	-353	40	60
185	SHLR	4717.5	-353	40	60
186	SHLR	4802.5	-353	40	60
187	SHIELDING[20]	4887.5	-353	40	60
188	UPDN	4972.5	-353	40	60
189	UPDN	5057.5	-353	40	60
190	TIN_DUM[5]	5142.5	-353	40	△ 60
191	STBYB	5227.5	-353	40	180
192	STBYB	5312.5	-353	40	186
193	TIN_DUM[6]	5397.5	-353	~ (30)	
194	RSTB	5482.5	-353	40	60
			. (/	40	
195	RSTB	5567.5	-(3)	40	60
196	FSOURCE_R	5652.5	-353	40	60
197	VDD	5737.5	1231	}	60
198	VDD	5822.5	3 (3)	40	60
199	VDD	590\(\frac{3}{3}\)	-33%	40	60
200	VDD	5392,5	-353	40	60
201	C#3	6077.5	-353	40	60
202	VSS	6162.5	-353	10	60
203	\\/y85 \	6247.5	553	40	60
204	vss	6332.5	-352	40	60
205	V3s	6417.5	353	→ 40	60
206	NBWB	6502.5	-353	40	60
207	GMAVL[14]	6587.5	353	40	60
J2/08	GMAVL[14]	6673,3	-353	40	60
209	SHIPLDINGKN	6757.5	-353	40	60
210	GMAVL[13]	6842.5	-353	40	60
211	GMAVL[13]	6927.5	-353	40	60
2	SHIELDING[22]	7012.5	-353	40	60
213	GMAVL[12]	7097.5	-353	40	60
214	GMAVL[12]	7182.5	-353	40	60
215	SHIELDING[23]	7267.5	-353	40	60
216	GMAVL[11]	7352.5	-353	40	60
217	GMAVL[11]	7437.5	-353	40	60
218	SHIELDING[24]	7522.5	-353	40	60
219	GMAVL[10]	7607.5	-353	40	60
220	GMAVL[10]	7692.5	-353	40	60
221	SHIELDING[25]	7777.5	-353	40	60
222	GMAVL[9]	7862.5	-353	40	60
223	GMAVL[9]	7947.5	-353	40	60
224				40	
	SHIELDING[26]	8032.5	-353 -353	40	60
225	GMAVL[8]	8117.5	-353		60
226	GMAVL[8]	8202.5	-353	40	60
227	SHIELDING[27]	8287.5	-353	40	60
228	GMAVL[7]	8372.5	-353	40	60
229	GMAVL[7]	8457.5	-353	40	60
230	SHIELDING[28]	8542.5	-353	40	60
231	GMAVL[6]	8627.5	-353	40	60
232	GMAVL[6]	8712.5	-353	40	60
233	SHIELDING[29]	8797.5	-353	40	60
234	GMAVL[5]	8882.5	-353	40	60
235	GMAVL[5]	8967.5	-353	40	60
236	SHIELDING[30]	9052.5	-353	40	60
237	GMAVL[4]	9137.5	-353	40	60
238	GMAVL[4]	9222.5	-353	40	60
239	SHIELDING[31]	9307.5	-353	40	60
240	GMAVL[3]	9392.5	-353	40	60

PAD No.	PAD Name	X-axis	Y-axis	W	Н
241	GMAVL[3]	9477.5	-353	40	60
242	SHIELDING[32]	9562.5	-353	40	60
243	GMAVL[2]	9647.5	-353	40	60
244	GMAVL[2]	9732.5	-353	40	60
245	SHIELDING[33]	9817.5	-353	40	60
246	GMAVL[1]	9902.5	-353	40	60
247	GMAVL[1]	9987.5	-353	40	60
248	SHIELDING[34]	10072.5	-353	40	60
249	VDDA	10157.5	-353	40	60
250	VDDA	10242.5	-353	40	60
251	VDDA	10327.5	-353	40	60
252	VDDA	10412.5	-353	40	60
253	TRIM_DUM[2]	10497.5	-353	40	60
254	COM_PASSL	10582.5	-353	40	60
255	COM_PASSL	10667.5	-353	40	60
256	TRIM_DUM[3]	10752.5	-353	40	60
257	TRIM_DUM[4]	10837.5	-353	40	60
258	SHIELDING[37]	10922.5	-353	40	60
259	DCLKL	11049	-376.5	50	26
260	DIOL	11179	-338	50	26
261	DATL[17]	11049	-298	50	26
262	DATL[16]	11179	-258	50	26
263	DATL[15]	11049	-218	50	26
264	DATL[14]	11179	-178	50	26
265	DATL[13]	11049	-138	50	26
266	DATL[12]	11179	-98	50	26
267	DATL[11]	11049	-58	50	26
	<u> </u>			50	
268	DATL[10]	11179	-18		26
269	DATL[9]	11049	22	50	26
270	DATL[8]	11179	62	50	26
271	DATL[7]	11049	102	50) 2/s
272	DATL[6]	11179	142	59	26
273	DATL[5]	11049	182	50	26
274	DATL[4]	11179	222	30	26
275	DATL[3]	11049	263	50	26
276	DATL[2]	11179	302	50	26
277	DATL[1]	11049	342	50	26
		-H	11 /4	5	1
278	DATL[0]	11170	378.75	50	23.5
279	POLL	109)4	J3 5 8	~~~	58
280	LDI	10864	358	(26	50
281	SYNCL	10814	358	1 16	
282	\sim	- 		1/1/26)) 50
	COM_PASSL	10764	368	1/28	50
283	\sim	- 		////	//
\leftarrow	COM_PASSL	10764	368	1/28	50
283	COM_PASSL COM_PASSL	NO 64 10714	358 358	220	50
283	COM_PASSL COM_PASSL SHIELDING[58]	10714 10664	358 358 358	26 26	50 50 50
283 284 285	COM-PASSL COM_PASSL COM_PASSL SHELDING(88) SO[1] SO[2]	10714 10664 10620.5 10603.5	358 358 358 62	26 26 14	50 50 50 65
283 284 285 286 287	COMPASSL COMPASSL SHELDINGSS SO[1] SO[2] SO[3]	10714 10664 10620.5 10603.5 10586.5	368 358 358 62 202 338	26 26 14 14 14	50 50 50 65 65 65
283 284 285 288 287 288	COMPASSL COMPASSL SHELDINOPS] SO[1] SO[2] SO[3] SO[4]	10764 10714 10664 10620.5 10603.5 10586.5 10569.5	368 358 358 62 202 338 62	28 26 14 14 14 14	50 50 50 65 65 65 65
283 284 285 287 288 289	COM PASSL COM_MASL WHELDING 81 SO[1] SO[2] SO[3] SO[4] SO[5]	10714 10664 10620.5 10603.5 10586.5 10569.5	358 358 358 62 202 338 62 202	28 26 14 14 14 14 14	50 50 50 65 65 65 65 65
283 284 285 287 288 289 290	COMPASSI COMPASSI WHELDINGS 111 SO[2] SO[3] SO[4] SO[5] SO[6]	10664 10714 10664 10620.5 10603.5 10586.5 10569.5 10552.5 10535.5	358 358 358 62 202 338 62 202 338	26 14 14 14 14 14 14	50 50 50 65 65 65 65 65 65
283 284 285 287 288 289 290 291	COMPASSI COMPASSI WHELDINGS 1 50[1] SO[2] SO[3] SO[4] SO[5] SO[6] SO[7]	10664 10714 10664 10620.5 10603.5 10586.5 10569.5 10552.5 10535.5	358 358 358 62 202 338 62 202 338 62	26 26 14 14 14 14 14 14 14	50 50 50 65 65 65 65 65 65 65 65
283 284 285 287 288 289 290	COMPASSI COMPASSI WHELDINGS 111 SO[2] SO[3] SO[4] SO[5] SO[6]	10664 10714 10664 10620.5 10603.5 10586.5 10569.5 10552.5 10535.5	358 358 358 62 202 338 62 202 338	26 14 14 14 14 14 14	50 50 50 65 65 65 65 65 65
283 284 285 287 288 289 290 291	COMPASSI COMPASSI WHELDINGS 1 50[1] SO[2] SO[3] SO[4] SO[5] SO[6] SO[7]	10664 10714 10664 10620.5 10603.5 10586.5 10569.5 10552.5 10535.5	358 358 358 62 202 338 62 202 338 62	26 26 14 14 14 14 14 14 14	50 50 50 65 65 65 65 65 65 65 65
283 284 285 287 288 289 290 291 292	COMPASSI. COMPASSI. WELDINGS 1 SO[2] SO[3] SO[4] SO[5] SO[6] SO[7] SO[8]	1064 10714 10664 10620.5 10603.5 10586.5 10569.5 10552.5 10518.5 10501.5	358 358 358 62 202 338 62 202 338 62 202	26 26 14 14 14 14 14 14 14 14	50 50 50 65 65 65 65 65 65 65 65 65
283 284 287 288 289 290 291 292 293	COMPASSI. COMPASSI. WELDINGS: SO[2] SO[3] SO[4] SO[5] SO[6] SO[7] SO[8] SO[9]	1064 10714 10664 10620.5 10603.5 10586.5 10569.5 10552.5 10518.5 10501.5	358 358 358 62 202 338 62 202 338 62 202 338	26 26 14 14 14 14 14 14 14 14 14	50 50 50 65 65 65 65 65 65 65 65 65 65
284 284 287 288 289 290 291 292 293 294	COMPASSI. COMPASSI. WELDINGS 1 SO[2] SO[3] SO[4] SO[5] SO[6] SO[7] SO[8] SO[9]	1064 10714 10664 10620.5 10603.5 10586.5 10569.5 10552.5 10518.5 10501.5 10484.5	368 358 358 62 202 338 62 202 338 62 202 338 62	28 26 14 14 14 14 14 14 14 14 14	50 50 50 65 65 65 65 65 65 65 65 65 65
284 284 287 288 289 290 291 292 293 294 295	COMPASSI. COMPASSI. HELDINGES SO[1] SO[2] SO[3] SO[4] SO[5] SO[6] SO[7] SO[8] SO[9] SO[10] SO[11]	10664 10714 10664 10620.5 10603.5 10586.5 10569.5 10552.5 10518.5 10501.5 10484.5 10467.5	368 358 358 62 202 338 62 202 338 62 202 338 62 202	28 26 14 14 14 14 14 14 14 14 14 14	50 50 50 65 65 65 65 65 65 65 65 65 65
283 284 287 288 289 290 291 292 293 294 295 296 297	COMPASSI. COMPASSI. HELDINGES SO[1] SO[2] SO[3] SO[4] SO[5] SO[6] SO[7] SO[8] SO[9] SO[10] SO[11] SO[12]	10664 10714 10664 10620.5 10603.5 10586.5 10569.5 10552.5 10518.5 10501.5 10484.5 10467.5 10433.5	368 358 358 62 202 338 62 202 338 62 202 338 62 202 338 62	28 26 14 14 14 14 14 14 14 14 14 14	50 50 50 65 65 65 65 65 65 65 65 65 65
283 284 287 288 289 290 291 292 293 294 295 296 297 298	COMPASSI. COMPAS	1064 10714 10664 10620.5 10603.5 10586.5 10559.5 10552.5 10518.5 10501.5 10484.5 10467.5 10433.5 10416.5 10399.5	368 358 358 62 202 338 62 202 338 62 202 338 62 202 338 62 202	28 26 14 14 14 14 14 14 14 14 14 14	50 50 50 65 65 65 65 65 65 65 65 65 65
283 284 287 288 289 290 291 292 293 294 295 296 297	COMPASSI. COMPASSI. HELDINGES SO[1] SO[2] SO[3] SO[4] SO[5] SO[6] SO[7] SO[8] SO[9] SO[10] SO[11] SO[12]	10664 10714 10664 10620.5 10603.5 10586.5 10569.5 10552.5 10518.5 10501.5 10484.5 10467.5 10433.5	368 358 358 62 202 338 62 202 338 62 202 338 62 202 338 62	28 26 14 14 14 14 14 14 14 14 14 14	50 50 50 65 65 65 65 65 65 65 65 65 65

PAD No.	PAD Name	X-axis	Y-axis	W	Н
301	SO[17]	10348.5	202	14	65
302	SO[18]	10331.5	338	14	65
303	SO[19]	10314.5	62	14	65
304	SO[20]	10297.5	202	14	65
305	SO[21]	10280.5	338	14	65
306	SO[22]	10263.5	62	14	65
307	SO[23]	10246.5	202	14	65
308	SO[24]	10229.5	338	14	65
309	SO[25]	10212.5	62	14	65
310	SO[26]	10195.5	202	14	<u>↑</u> 65
311	SO[27]	10178.5	338	14	185
312	SO[28]	10161.5	62	14	9
313	SO[29]	10144.5	202	~ (/4 //	
314	SO[30]	10127.5	338	14	65
315	SO[31]	10110.5	(A)	14	65
316	SO[32]	10093.5	202	14	65
317	SO[33]	10076.5	138	14	65
318	SO[34]	10059.5	2/8	14	65
319	SO[35]	10042.5	203	14	65
320	SO[36	10025.5	338	A 14	65
321	SO(3V)	10008.5	62	14	65
322	SO[38]	9991.5	202	X 4	65
322	80(39)	9974.5	538	14	65
324	SO[40]	9957.5	62/	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	65
725	30)41]	9940.5	1/200	→ 14	65
1 328	→ _{SO[42]}	9923.5	338	14	65
327	SO[43]	9906.3) 62	14	65
128	SO[44]	9889,3	202	14	65
329	SO[45]	9872.5	338	14	65
330	SO[46]	9855.5	62	14	65
381	\$0(47]	9838.5	202	14	65
382	SO[48]	9821.5	338	14	65
333	8 6[49]	9804.5	62	14	65
334	SO[50]	9787.5	202	14	65
335	SO[51]	9770.5	338	14	65
336	SO[52]	9753.5	62	14	65
337	SO[53]	9736.5	202	14	65
338	SO[54]	9719.5	338	14	65
339	SO[55]	9702.5	62	14	65
340	SO[56]	9685.5	202	14	65
341	SO[57]	9668.5	338	14	65
342	SO[58]	9651.5	62	14	65
343	SO[59]	9634.5	202	14	65
344	SO[60]	9617.5	338	14	65
345	SO[61]	9600.5	62	14	65
346	SO[62]	9583.5	202	14	65
347 348	SO[63]	9566.5 9549.5	338	14	65
348	SO[64] SO[65]	9549.5 9532.5	62 202	14	65
350	SO[66]	9515.5	338	14	65
351	SO[66]	9498.5	62	14	65
352	SO[68]	9498.5	202	14	65
353	SO[68]	9464.5	338	14	65
353	SO[69] SO[70]	9447.5	62	14	65
355	SO[70] SO[71]	9447.5	202	14	65
356	SO[71]	9430.5	338	14	65
357	SO[72]	9396.5	62	14	65
358		9379.5	202	14	65
	SO[74]	93/9.5	338	14	
359 360	SO[75] SO[76]	9362.5	62	14	65
500	3O[/0]	7343.3	02	14	U.S

PAD No.	PAD Name	X-axis	Y-axis	w	Н
361	SO[77]	9328.5	202	14	65
362	SO[78]	9311.5	338	14	65
363		9294.5	62	14	
	SO[79]				65
364	SO[80]	9277.5	202	14	65
365	SO[81]	9260.5	338	14	65
366	SO[82]	9243.5	62	14	65
367	SO[83]	9226.5	202	14	65
368	SO[84]	9209.5	338	14	65
369	SO[85]	9192.5	62	14	65
370	SO[86]	9175.5	202	14	65
371	SO[87]	9158.5	338	14	65
372	SO[88]	9141.5	62	14	65
373	SO[89]	9124.5	202	14	65
374	SO[90]	9107.5	338	14	65
375	SO[91]	9090.5	62	14	65
376	SO[92]	9073.5	202	14	65
377	SO[93]	9056.5	338	14	65
378	SO[94]	9039.5	62	14	65
379	SO[95]	9022.5	202	14	65
380	SO[96]	9005.5	338	14	65
381	SO[97]	8988.5	62	14	65
382	SO[98]	8971.5	202	14	65
383	SO[99]	8954.5	338	14	65
384	SO[100]	8937.5	62	14	65
385	SO[101]	8920.5	202	14	65
386	SO[102]	8903.5	338	14	65
387	SO[103]	8886.5	62	14	65
388	SO[104]	8869.5	202	14	65 /
389	SO[105]	8852.5	338	14	65
390			62	14	65
	SO[106]	8835.5			
391	SO[107]	8818.5	202	14)6
392	SO[108]	8801.5	338	14	V 65
393	SO[109]	8784.5	62	14	65
394	SO[110]	8767.5	202	\\\Y4\\\	∕ ⁶⁵
395	SO[111]	8750.5	338	14	65
396	SO[112]	8733.5	1/65	14	65
397	SO[113]	8716.	202	14	65
398	SO[114]	8699.5	B3B	14	85
399	SO[115] /	8682.5	J6 2	1	63
400	SO[116)	8668.5	202	14	65
401	SØ[117]	8648.5	338	\ \\\	65
402	30N18]	8831.5	8	1/1/	65
403	SO[N9]	8614.5	202	114	65
404	SO[120]	8597.5	338	14	65
$\overline{}$	- / /		,	// / /	
405	SQ[121]	8580.5	62	14	65
408	SO[122]	8563.5	202	14	65
407	SO[123]	8546.5	338	14	65
408	SO[124]	8529.5	62	14	65
409	SO[125]	8512.5	202	14	65
410	SO[126]	8495.5	338	14	65
411	SO[127]	8478.5	62	14	65
412	SO[128]	8461.5	202	14	65
413	SO[129]	8444.5	338	14	65
414	SO[130]	8427.5	62	14	65
	SO[131]	8410.5	202	14	65
415		8393.5			
415	CO[1221		338	14	65
416	SO[132]			1.	
416 417	SO[133]	8376.5	62	14	65
416 417 418	SO[133] SO[134]	8376.5 8359.5	202	14	65
416 417 418 419	SO[133] SO[134] SO[135]	8376.5 8359.5 8342.5	202 338	14 14	65 65
416 417 418	SO[133] SO[134]	8376.5 8359.5	202	14	65

PAD No.	PAD Name	X-axis	Y-axis	W	Н
421	SO[137]	8308.5	202	14	65
422	SO[138]	8291.5	338	14	65
423	SO[139]	8274.5	62	14	65
424	SO[140]	8257.5	202	14	65
425	SO[141]	8240.5	338	14	65
426	SO[142]	8223.5	62	14	65
427	SO[143]	8206.5	202	14	65
428	SO[144]	8189.5	338	14	65
429	SO[145]	8172.5	62	14	65
430	SO[146]	8155.5	202	14	<u>↑</u> 65
431	SO[147]	8138.5	338	14	85
432	SO[148]	8121.5	62	14	63
433	SO[149]	8104.5	202	<i>></i> [/⊭	
434	SO[150]	8087.5	338	14	65
435	SO[151]	8070.5	(2)	14	65
436	SO[152]	8053.5	202	14	65
437	SO[153]	8036.5	12387	14	65
438	SO[154]	8018.5	2 /8	J 14	65
439	SO[155]	8008	202	14	65
440	SO[156	7983,5	338	^ 14	65
441	SON371	7968.5	62	14	65
442	SO[158]	79515	202	X ^T	65
443	80[159]	7934.5	238	14	65
444	S O[160]	7917.5	62	14	65
Pré	S O [361]	7900.5	200	→ 14	65
1 46	SO[162]	7883.5	338	14	65
447	SO[163]	7866.5) 62	14	65
4 48	SO[164]	7849,3	202	14	65
449	80[165]	7832.5	338	14	65
450	SO[166]	7815.5	62	14	65
451	50167]	7798.5	202	14	65
4 52	SO[168]	7781.5	338	14	65
453	SO[169]	7764.5	62	14	65
454	SO[170]	7747.5	202	14	65
455	SO[171]	7730.5	338	14	65
456	SO[172]	7713.5	62	14	65
457	SO[173]	7696.5	202	14	65
458	SO[174]	7679.5	338	14	65
459	SO[175]	7662.5	62	14	65
460	SO[176]	7645.5	202	14	65
461	SO[177]	7628.5	338	14	65
462	SO[178]	7611.5	62	14	65
463	SO[179]	7594.5	202	14	65
464	SO[180]	7577.5	338	14	65
465	SO[181]	7560.5	62	14	65
466	SO[182]	7543.5	202	14	65
467	SO[183]	7526.5	338	14	65
468	SO[184]	7509.5	62	14	65
469	SO[185]	7492.5	202	14	65
470	SO[186]	7475.5	338	14	65
471	SO[187]	7458.5	62	14	65
472	SO[188]	7441.5	202	14	65
473	SO[189]	7424.5	338	14	65
474	SO[190]	7407.5	62	14	65
475	SO[191]	7390.5	202	14	65
476	SO[192]	7373.5	338	14	65
477	SO[193]	7356.5	62	14	65
478	SO[194]	7339.5	202	14	65
479	SO[195]	7322.5	338	14	65
480	SO[196]	7305.5	62	14	65

ASI	PAD No.	PAD Name	X-axis	Y-axis	W	Н
482						
483						
484						
485						
486						
487						
488						
A89	487	SO[203]	7186.5	202	14	65
490 SO[206] 7135.5 202 14 65 491 SO[207] 7118.5 338 14 65 492 SO[208] 7101.5 62 14 65 493 SO[209] 7084.5 202 14 65 494 SO[211] 7050.5 62 14 65 496 SO[212] 7033.5 202 14 65 497 SO[213] 7016.5 338 14 65 498 SO[214] 6999.5 62 14 65 500 SO[216] 6995.5 202 14 65 501 SO[216] 6995.5 338 14 65 501 SO[216] 6995.5 338 14 65 501 SO[216] 6995.5 338 14 65 501 SO[218] 6931.5 202 14 65 502 SO[218] 6931.5 202 <td>488</td> <td>SO[204]</td> <td>7169.5</td> <td>338</td> <td>14</td> <td>65</td>	488	SO[204]	7169.5	338	14	65
491 SO(207) 7118.5 338 14 65 492 SO(208) 7101.5 62 14 65 493 SO(209) 7084.5 202 14 65 494 SO(210) 7067.5 338 14 65 495 SO(212) 7035.5 62 14 65 496 SO(212) 7033.5 202 14 65 497 SO(213) 7016.5 338 14 65 498 SO(214) 6999.5 62 14 65 500 SO(216) 6965.5 338 14 65 501 SO(217) 6948.5 62 14 65 502 SO(218) 6931.5 202 14 65 503 SO(219) 6914.5 338 14 65 504 SO(220) 6897.5 62 14 65 505 SO(221) 6880.5 202	489	SO[205]	7152.5	62	14	65
492 SO[208] 7101.5 62 14 65 493 SO[209] 7084.5 202 14 65 494 SO[210] 7067.5 338 14 65 495 SO[211] 7050.5 62 14 65 496 SO[212] 7033.5 202 14 65 497 SO[213] 699.5 62 14 65 498 SO[214] 699.5 62 14 65 500 SO[216] 6965.5 338 14 65 500 SO[216] 6965.5 338 14 65 501 SO[217] 6948.5 62 14 65 502 SO[218] 6931.5 202 14 65 503 SO[219] 6914.5 338 14 65 504 SO[220] 680.5 202 14 65 505 SO[221] 6880.5 202	490	SO[206]	7135.5	202	14	65
493 SO[209] 7084.5 202 14 65 494 SO[210] 7067.5 338 14 65 495 SO[211] 7050.5 62 14 65 496 SO[212] 7033.5 202 14 65 497 SO[213] 7016.5 338 14 65 498 SO[214] 6699.5 62 14 65 500 SO[216] 6965.5 338 14 65 500 SO[216] 6965.5 338 14 65 501 SO[217] 6948.5 62 14 65 502 SO[218] 6931.5 202 14 65 503 SO[219] 6914.5 338 14 65 504 SO[220] 6897.5 62 14 65 505 SO[221] 6845.5 202 14 65 506 SO[223] 6846.5 62	491	SO[207]	7118.5	338	14	65
494	492	SO[208]	7101.5	62	14	65
495	493	SO[209]	7084.5	202	14	65
496	494	SO[210]	7067.5	338	14	65
497 SO[213] 7016.5 338 14 65 498 SO[214] 699.5 62 14 65 499 SO[216] 6982.5 202 14 65 500 SO[216] 6965.5 338 14 65 501 SO[217] 6948.5 62 14 65 502 SO[218] 6931.5 202 14 65 503 SO[219] 6914.5 338 14 65 504 SO[220] 6897.5 62 14 65 505 SO[221] 6880.5 202 14 65 506 SO[222] 6863.5 338 14 65 507 SO[223] 6846.5 62 14 65 508 SO[224] 6829.5 202 14 65 510 SO[226] 6795.5 62 14 65 511 SO[226] 6795.5 62	495	SO[211]	7050.5	62	14	65
497	496	SO[212]	7033.5	202	14	65
498	497				14	65
499 SO[215] 6982.5 202 14 65 500 SO[216] 6965.5 338 14 65 501 SO[217] 6948.5 62 14 65 502 SO[218] 6931.5 202 14 65 503 SO[219] 6914.5 338 14 65 504 SO[220] 6897.5 62 14 65 505 SO[221] 6880.5 202 14 65 506 SO[222] 6863.5 202 14 65 507 SO[223] 6846.5 62 14 65 508 SO[224] 6829.5 202 14 65 509 SO[225] 6812.5 338 14 65 510 SO[226] 6795.5 62 14 65 511 SO[228] 6761.5 338 14 65 512 SO[228] 6761.5 338 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
500 SO[216] 6965.5 338 14 65 501 SO[217] 6948.5 62 14 65 502 SO[218] 6931.5 202 14 65 503 SO[219] 6914.5 338 14 65 504 SO[220] 6897.5 62 14 65 505 SO[2211] 6880.5 202 14 65 506 SO[222] 6863.5 338 14 65 507 SO[223] 6846.5 62 14 65 508 SO[224] 6829.5 202 14 65 509 SO[225] 6812.5 338 14 65 510 SO[225] 6812.5 338 14 65 511 SO[225] 6715.5 202 14 65 512 SO[228] 6761.5 338 19 64 513 SO[229] 6744.5 62 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
501 SO[217] 6948.5 62 14 65 502 SO[218] 6931.5 202 14 65 503 SO[219] 6914.5 338 14 65 504 SO[220] 6897.5 62 14 65 505 SO[221] 6880.5 202 14 65 506 SO[222] 6863.5 338 14 65 507 SO[223] 6846.5 62 14 65 508 SO[224] 6829.5 202 14 65 509 SO[225] 6812.5 338 14 65 510 SO[225] 6812.5 338 14 65 511 SO[225] 6775.5 202 14 65 511 SO[228] 6761.5 338 14 65 512 SO[228] 6761.5 338 14 65 514 SO[230] 6727.5 202 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
502 SO[218] 6931.5 202 14 65 503 SO[219] 6914.5 338 14 65 504 SO[220] 6897.5 62 14 65 505 SO[221] 6880.5 202 14 65 506 SO[222] 6863.5 338 14 65 507 SO[223] 6846.5 62 14 65 508 SO[224] 6829.5 202 14 65 509 SO[225] 6812.5 338 14 65 510 SO[226] 6795.5 62 14 65 511 SO[227] 6778.5 202 14 65 512 SO[228] 6761.5 338 14 65 513 SO[228] 6744.5 62 14 65 514 SO[230] 6727.5 202 14 65 515 SO[231] 670.5 336						
503 SO[219] 6914.5 338 14 65 504 SO[220] 6897.5 62 14 65 505 SO[221] 6880.5 202 14 65 506 SO[222] 6863.5 338 14 65 507 SO[223] 6846.5 62 14 65 508 SO[224] 6829.5 202 14 65 509 SO[225] 6812.5 338 14 65 509 SO[226] 6795.5 62 14 65 510 SO[228] 6761.5 338 14 65 511 SO[228] 6761.5 338 14 65 512 SO[228] 6761.5 338 14 65 513 SO[230] 6727.5 202 14 65 514 SO[231] 6710.5 338 14 65 515 SO[231] 6676.5 202 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
504 SO[220] 6897.5 62 14 65 505 SO[221] 6880.5 202 14 65 506 SO[222] 6863.5 338 14 65 507 SO[223] 6846.5 62 14 65 508 SO[224] 6829.5 202 14 65 509 SO[225] 6812.5 338 14 65 509 SO[226] 6795.5 62 14 65 510 SO[226] 6795.5 62 14 65 511 SO[228] 6761.5 338 14 65 512 SO[228] 6761.5 338 14 65 513 SO[220] 6744.5 62 14 65 514 SO[230] 6727.5 202 14 65 515 SO[231] 6710.5 338 14 65 517 SO[233] 6676.5 202						
505 SO[221] 6880.5 202 14 65 506 SO[222] 6863.5 338 14 65 507 SO[223] 6846.5 62 14 65 508 SO[224] 6829.5 202 14 65 509 SO[225] 6812.5 338 14 65 510 SO[226] 6795.5 62 14 65 511 SO[227] 6778.5 202 14 65 512 SO[228] 6761.5 338 14 65 513 SO[229] 6744.5 62 14 65 514 SO[230] 6727.5 202 14 65 515 SO[231] 6710.5 338 14 65 516 SO[232] 6693.5 82 14 65 517 SO[233] 6676.5 202 14 65 518 SO[234] 6659.5 202 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
506 SO[222] 6863.5 338 14 65 507 SO[223] 6846.5 62 14 65 508 SO[224] 6829.5 202 14 65 509 SO[225] 6812.5 338 14 65 510 SO[226] 6795.5 62 14 65 511 SO[227] 6778.5 202 14 65 512 SO[228] 6761.5 338 14 65 513 SO[229] 6744.5 62 14 65 514 SO[230] 6727.5 202 14 65 515 SO[231] 6710.5 338 14 65 516 SO[232] 6693.5 52 14 65 517 SO[233] 6676.5 202 14 65 518 SO[234] 6659.5 338 14 65 520 SO[236] 662.5 202	504	SO[220]	6897.5	62	14	65
507 SO[223] 6846.5 62 14 65 508 SO[224] 6829.5 202 14 65 509 SO[225] 6812.5 338 14 65 510 SO[226] 6795.5 62 14 65 511 SO[227] 6778.5 202 14 65 512 SO[228] 6761.5 338 14 65 513 SO[229] 6744.5 62 14 65 514 SO[230] 6727.5 202 14 65 515 SO[231] 6710.5 338 14 65 516 SO[231] 6710.5 338 14 65 517 SO[233] 6676.5 202 14 65 518 SO[234] 6659.5 38 14 65 520 SO[236] 6625.5 202 14 65 521 SO[237] 608.5 338	505	SO[221]	6880.5	202	14	65
508 SO[224] 6829.5 202 14 65 509 SO[225] 6812.5 338 14 65 510 SO[226] 6795.5 62 14 65 511 SO[227] 6778.5 202 14 65 512 SO[228] 6761.5 338 14 65 513 SO[229] 6744.5 62 14 65 514 SO[230] 6727.5 202 14 65 515 SO[231] 6710.5 338 14 65 516 SO[232] 6693.5 82 14 65 517 SO[233] 6676.5 202 14 65 518 SO[234] 6659.5 38 14 65 519 SO[235] 6642.5 202 14 65 520 SO[246] 662.5 202 14 65 521 SO[237] 608.5 338	506	SO[222]	6863.5	338	14	65
509 SO[225] 6812.5 338 14 65 510 SO[226] 6795.5 62 14 65 511 SO[227] 6778.5 202 14 65 512 SO[228] 6761.5 338 14 65 513 SO[229] 6744.5 62 14 65 514 SO[230] 6727.5 202 14 65 515 SO[231] 6710.5 338 14 65 516 SO[232] 6693.5 52 14 65 517 SO[233] 6676.5 202 14 65 518 SO[234] 6659.5 38 14 65 518 SO[234] 6659.5 338 14 65 520 SO[236] 662.5 202 14 65 521 SO[237] 608.5 338 14 65 521 SO[238] 659.5 202	507	SO[223]	6846.5	62	14	65
510 SO[226] 6795.5 62 14 65 511 SO[227] 6778.5 202 14 65 512 SO[228] 6761.5 338 14 65 513 SO[229] 6744.5 62 14 65 514 SO[230] 6727.5 202 14 65 515 SO[231] 6710.5 338 14 65 516 SO[232] 6693.5 82 14 65 517 SO[233] 6676.5 202 14 65 518 SO[234] 6659.5 38 14 65 519 SO[235] 6625.5 202 14 65 520 SO[236] 6625.5 202 14 65 521 SO[237] 608.5 338 14 65 521 SO[237] 608.5 338 14 65 522 SO[238] 659.5 202	508	SO[224]	6829.5	202	14	65
511 SO[227] 6778.5 202 14 65 512 SO[228] 6761.5 338 14 68 513 SO[229] 6744.5 62 14 65 514 SO[230] 6727.5 202 14 65 515 SO[231] 6710.5 338 14 65 516 SO[232] 6693.5 62 14 65 517 SO[233] 6676.7 202 14 65 518 SO[234] 6659.7 38 14 66 519 SO[235] 667.5 202 14 65 520 SO[240] 6525.5 202 14 65 521 SO[237] 608.5 338 14 65 521 SO[248] 6574.5 202 14 65 522 SO[248] 6574.5 202 14 65 524 SO[240] 6557.5 338	509	SO[225]	6812.5	338	14	65
512 SO[228] 6761.5 338 14 68 513 SO[229] 6744.5 62 14 65 514 SO[230] 6727.5 202 14 65 515 SO[231] 6710.5 338 14 65 516 SO[232] 6693.5 62 14 65 517 SO[233] 6676.7 202 14 65 518 SO[234] 6659.7 38 14 66 519 SO[235] 6692.5 202 14 65 520 SO[236] 662.5 202 14 65 521 SO[237] 608.5 338 14 65 521 SO[248] 6574.5 202 14 65 521 SO[248] 6574.5 202 14 65 522 SO[248] 6574.5 202 14 65 524 SO[240] 6557.5 338	510	SO[226]	6795.5	62	14	65
513 SO[229] 6744.5 62 14 65 514 SO[230] 6727.5 202 14 65 515 SO[231] 6710.5 338 14 65 516 SO[232] 6693.5 62 14 65 517 SO[233] 6676.7 202 14 65 518 SO[234] 6659.7 38 14 66 519 SO[235] 6043.5 62 14 65 520 SO[236] 6625.5 202 14 65 521 SO[237] 608.5 338 14 65 521 SO[248] 652.5 202 14 65 521 SO[248] 6574.5 202 14 65 522 SO[248] 6574.5 202 14 65 524 SO[240] 6557.5 338 14 65 524 SO[241] 6540.5 62	511	SO[227]	6778.5	202	14)65
514 SO[230] 6727.5 202 14 65 515 SO[231] 6710.5 338 14 65 516 SO[232] 6693.5 62 14 65 517 SO[233] 6676.7 202 14 65 518 SO[234] 6659.7 38 14 65 519 SO[235] 604.3 67 4 65 520 SO[246] 662.5 202 14 65 520 SO[246] 662.5 202 14 65 521 So[247] 608.5 338 14 65 521 So[248] 6574.5 202 14 65 522 SO[248] 6574.5 202 14 65 524 SO[240] 6557.5 338 14 65 524 SO[241] 6540.5 62 14 65 525 SO[241] 6540.5 62	512	SO[228]	6761.5	338	14	V-65
515 SO[231] 6710.5 338 14 65 516 SO[232] 6693.5 62 14 65 517 SO[233] 6676.4 202 14 65 518 SO[234] 6659.5 38 14 66 519 SO[235] 604.3 67 65 65 520 SO[246] 662.5 202 14 65 521 SO[237] 608.5 338 14 65 521 SO[247] 608.5 338 14 65 521 SO[248] 6574.5 202 14 65 522 SO[248] 6574.5 202 14 65 524 SO[240] 6557.5 338 14 65 524 SO[240] 6557.5 338 14 65 524 SO[241] 6540.5 62 14 65 528 SO[242] 6523.5 202	513	SO[229]	6744.5	62	14	65
516 SO[232] 6693.5 82 14 65 517 SO[233] 6676.4 202 14 65 518 SO[234] 6659.5 38 14 66 519 SO[235] 604.3 67 4 65 520 SO[246] 6625.5 202 14 65 521 So[237] 808.5 338 14 65 522 SO[248] 6574.5 202 14 65 522 SO[248] 6574.5 202 14 65 524 SO[240] 6557.5 338 14 65 524 SO[240] 6557.5 338 14 65 524 SO[241] 6540.5 62 14 65 525 SO[241] 6540.5 62 14 65 527 SO[243] 6506.5 338 14 65 528 SO[244] 6489.5 62	514	SO[230]	6727.5	202	\\Y4	65
516 SO[232] 6693.5 82 14 65 517 SO[233] 6676.4 202 14 65 518 SO[234] 6659.5 38 14 66 519 SO[235] 604.3 67 4 65 520 SO[246] 6625.5 202 14 65 521 So[237] 808.5 338 14 65 522 SO[248] 6574.5 202 14 65 522 SO[248] 6574.5 202 14 65 524 SO[240] 6557.5 338 14 65 524 SO[240] 6557.5 338 14 65 524 SO[241] 6540.5 62 14 65 525 SO[241] 6540.5 62 14 65 527 SO[243] 6506.5 338 14 65 528 SO[244] 6489.5 62	515	SO[231]	6710.5	338	14\	65
517 SO[233] 6676. 202 14 65 518 SO[234] 66595 38 14 65 519 SO[235] 66435 62 4 65 520 SO[236] 66245 202 4 65 521 SO[237] 8608.5 338 N 65 522 SO[238] 6594.5 202 14 65 522 SO[248] 6574.5 202 14 65 524 SO[240] 6557.5 338 14 65 524 SO[240] 6557.5 338 14 65 524 SO[241] 6540.5 62 14 65 527 SO[242] 6523.5 202 14 65 528 SO[243] 6506.5 338 14 65 529 SO[243] 649.5 62 14 65 530 SO[245] 6472.5 202				√ // \/	\sim	
518 SO[234] 6659 5 38 14 65 519 SO[235] 6043 5 61 63 520 SO[237] 608.5 338 14 65 521 SO[237] 608.5 338 14 65 522 SO[238] 6574.5 202 14 65 524 SO[240] 6557.5 338 14 65 524 SO[241] 6540.5 62 14 65 528 SO[242] 6523.5 202 14 65 527 SO[243] 6506.5 338 14 65 528 SO[244] 6489.5 62 14 65 529 SO[245] 6472.5 202 14 65 530 SO[246] 6455.5 338 14 65 531 SO[247] 6438.5 62 14 65 532 SO[248] 6421.5 202 14				HHH	/,)	
519 SO[235] 66435 61 63 520 SO[246] 66245 202 44 65 521 SO[237] 8608.5 338 N 65 522 SO[238] 6591.5 62 14 65 524 SO[240] 6574.5 202 14 65 524 SO[240] 6557.5 338 14 65 524 SO[241] 6540.5 62 14 65 527 SO[242] 6523.5 202 14 65 527 SO[243] 6506.5 338 14 65 528 SO[244] 6489.5 62 14 65 529 SO[245] 6472.5 202 14 65 530 SO[246] 6455.5 338 14 65 531 SO[247] 6438.5 62 14 65 532 SO[248] 6421.5 202 14			- 11	11 /4	\	1
520 SO[250] 6638.5 202 44 65 521 56[237] 5608.5 338 14 65 522 50[28] 6574.5 202 14 65 524 50[240] 6574.5 202 14 65 524 50[240] 6557.5 338 14 65 525 50[241] 6540.5 62 14 65 527 50[242] 6523.5 202 14 65 528 50[243] 6506.5 338 14 65 529 50[243] 6489.5 62 14 65 530 50[245] 6472.5 202 14 65 531 50[246] 6455.5 338 14 65 531 50[247] 6438.5 62 14 65 532 50[248] 6421.5 202 14 65 533 50[250] 6387.5 62			~ 111		14	- //
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522 SQR38 6SP4.5 202 14 65 524 SQ[240] 6557.5 338 14 65 524 SQ[241] 6540.5 62 14 65 525 SQ[242] 6523.5 202 14 65 527 SQ[243] 6506.5 338 14 65 528 SQ[244] 6489.5 62 14 65 529 SQ[245] 6472.5 202 14 65 530 SQ[246] 6455.5 338 14 65 531 SQ[247] 6438.5 62 14 65 532 SQ[248] 6421.5 202 14 65 533 SQ[248] 6421.5 202 14 65 534 SQ[250] 6387.5 62 14 65 535 SQ[251] 6370.5 202 14 65 536 SQ[252] 6353.5 338		\rightarrow	\ <u> </u>		\ \\	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
523 SO[240] 6574.5 202 14 65 524 SO[240] 6557.5 338 14 65 525 SO[241] 6540.5 62 14 65 527 SO[243] 6506.5 338 14 65 528 SO[244] 6489.5 62 14 65 529 SO[245] 6472.5 202 14 65 530 SO[246] 6455.5 338 14 65 531 SO[247] 6438.5 62 14 65 532 SO[248] 6421.5 202 14 65 533 SO[249] 6404.5 338 14 65 534 SO[250] 6387.5 62 14 65 535 SO[251] 6370.5 202 14 65 536 SO[252] 6333.5 338 14 65 537 SO[253] 6336.5 62		$\langle \times \rangle$	 		////	<i>) </i>
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527 SO[243] 6506.5 338 14 65 528 SO[244] 6489.5 62 14 65 529 SO[245] 6472.5 202 14 65 530 SO[246] 6455.5 338 14 65 531 SO[247] 6438.5 62 14 65 532 SO[248] 6421.5 202 14 65 533 SO[249] 6404.5 338 14 65 534 SO[250] 6387.5 62 14 65 535 SO[251] 6370.5 202 14 65 536 SO[252] 6353.5 338 14 65 537 SO[253] 6336.5 62 14 65 538 SO[254] 6319.5 202 14 65 539 SO[255] 6302.5 338 14 65	325	SO[241]	6540.5	62	14	65
528 SO[244] 6489.5 62 14 65 529 SO[245] 6472.5 202 14 65 530 SO[246] 6455.5 338 14 65 531 SO[247] 6438.5 62 14 65 532 SO[248] 6421.5 202 14 65 533 SO[249] 6404.5 338 14 65 534 SO[250] 6387.5 62 14 65 535 SO[251] 6370.5 202 14 65 536 SO[252] 6353.5 338 14 65 537 SO[253] 6336.5 62 14 65 538 SO[254] 6319.5 202 14 65 539 SO[255] 6302.5 338 14 65	520	SO[242]	6523.5	202	14	65
529 SO[245] 6472.5 202 14 65 530 SO[246] 6455.5 338 14 65 531 SO[247] 6438.5 62 14 65 532 SO[248] 6421.5 202 14 65 533 SO[249] 6404.5 338 14 65 534 SO[250] 6387.5 62 14 65 535 SO[251] 6370.5 202 14 65 536 SO[252] 6353.5 338 14 65 537 SO[253] 6336.5 62 14 65 538 SO[254] 6319.5 202 14 65 539 SO[255] 6302.5 338 14 65	527	SO[243]	6506.5	338	14	65
530 SO[246] 6455.5 338 14 65 531 SO[247] 6438.5 62 14 65 532 SO[248] 6421.5 202 14 65 533 SO[249] 6404.5 338 14 65 534 SO[250] 6387.5 62 14 65 535 SO[251] 6370.5 202 14 65 536 SO[252] 6353.5 338 14 65 537 SO[253] 6336.5 62 14 65 538 SO[254] 6319.5 202 14 65 539 SO[255] 6302.5 338 14 65	528	SO[244]	6489.5	62	14	65
531 SO[247] 6438.5 62 14 65 532 SO[248] 6421.5 202 14 65 533 SO[249] 6404.5 338 14 65 534 SO[250] 6387.5 62 14 65 535 SO[251] 6370.5 202 14 65 536 SO[252] 6353.5 338 14 65 537 SO[253] 6336.5 62 14 65 538 SO[254] 6319.5 202 14 65 539 SO[255] 6302.5 338 14 65	529	SO[245]	6472.5	202	14	65
532 SO[248] 6421.5 202 14 65 533 SO[249] 6404.5 338 14 65 534 SO[250] 6387.5 62 14 65 535 SO[251] 6370.5 202 14 65 536 SO[252] 6353.5 338 14 65 537 SO[253] 6336.5 62 14 65 538 SO[254] 6319.5 202 14 65 539 SO[255] 6302.5 338 14 65	530	SO[246]	6455.5	338	14	65
533 SO[249] 6404.5 338 14 65 534 SO[250] 6387.5 62 14 65 535 SO[251] 6370.5 202 14 65 536 SO[252] 6353.5 338 14 65 537 SO[253] 6336.5 62 14 65 538 SO[254] 6319.5 202 14 65 539 SO[255] 6302.5 338 14 65	531	SO[247]	6438.5	62	14	65
533 SO[249] 6404.5 338 14 65 534 SO[250] 6387.5 62 14 65 535 SO[251] 6370.5 202 14 65 536 SO[252] 6353.5 338 14 65 537 SO[253] 6336.5 62 14 65 538 SO[254] 6319.5 202 14 65 539 SO[255] 6302.5 338 14 65	532				14	65
534 SO[250] 6387.5 62 14 65 535 SO[251] 6370.5 202 14 65 536 SO[252] 6353.5 338 14 65 537 SO[253] 6336.5 62 14 65 538 SO[254] 6319.5 202 14 65 539 SO[255] 6302.5 338 14 65						
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540 SO[256] 6285.5 62 14 65	539	SO[255]	6302.5			
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	PAD No.	PAD Name	X-axis			
	541	SO[257]	6268.5	Y-axis 202	W 14	H 65
 	542		6251.5	338	14	65
		SO[258]				
	543	SO[259]	6234.5	62	14	65
	544	SO[260]	6217.5	202	14	65
	545	SO[261]	6200.5	338	14	65
	546	SO[262]	6183.5	62	14	65
	547	SO[263]	6166.5	202	14	65
	548	SO[264]	6149.5	338	14	65
	549	SO[265]	6132.5	62	14	65
	550	SO[266]	6115.5	202	14	65
	551	SO[267]	6098.5	338	14	185
	552	SO[268]	6081.5	62	14	63
	553 554	SO[269]	6064.5 6047.5	338) N4 14	65
		SO[270]			/ //	
	555 556	SO[271] SO[272]	6030.5 6013.5	202	14	65
	557	SO[272]	5996.5	1538	14	65
	558	SO[274]	5078/5	1/8	14	65
	559	SO[274]	5963.3	202	14	65
	560	SO[276]	5943,5	338	14	65
	561	\$0654	5928.5	62	14	65
	562	SO[278]	59115	202)4	65
	563	80[278]	5894.5	838	14	65
_	564	SO[280]	5877.5	(62)	14	65
$ \overline{} $	865	SQ[280]	5860.5	200	14	65
1	366	SO[282]	5843.5	338	14	65
_	367	SO[283]	5826.5)62	14	65
	568	SO[284]	5809,5	202	14	65
))	569	SO[285]	5792.5	338	14	65
	570	SO[286]	5775.5	62	14	65
	581	\$0[287]	5758.5	202	14	65
	372	SO[288]	5741.5	338	14	65
(573	\$0[289]	5724.5	62	14	65
/	574	SO[290]	5707.5	202	14	65
/	575	SO[291]	5690.5	338	14	65
))	576	SO[292]	5673.5	62	14	65
	577	SO[293]	5656.5	202	14	65
	578	SO[294]	5639.5	338	14	65
	579	SO[295]	5622.5	62	14	65
	580	SO[296]	5605.5	202	14	65
	581	SO[297]	5588.5	338	14	65
	582	SO[298]	5571.5	62	14	65
	583	SO[299]	5554.5	202	14	65
	584	SO[300]	5537.5	338	14	65
	585	SO[301]	5520.5	62	14	65
	586	SO[302]	5503.5	202	14	65
	587	SO[303]	5486.5	338	14	65
	588	SO[304]	5469.5	62	14	65
	589	SO[305]	5452.5	202	14	65
	590	SO[306]	5435.5	338	14	65
	591	SO[307]	5418.5	62	14	65
	592	SO[308]	5401.5	202	14	65
	593	SO[309]	5384.5	338	14	65
	594	SO[310]	5367.5	62	14	65
	595	SO[311]	5350.5	202	14	65
	596	SO[312]	5333.5	338	14	65
	597	SO[313]	5316.5	62	14	65
	598	SO[314]	5299.5	202	14	65
	599	SO[315]	5282.5	338	14	65
_	600	SO[316]	5265.5	62	14	65

601 SO(317] 5248.5 202 14 65 602 SO(318] 5231.5 338 14 65 603 SO(319] 5214.5 62 14 65 604 SO(320] 5197.5 202 14 65 605 SO(321] 5180.5 338 14 65 606 SO(322] 5163.5 62 14 65 607 SO(323] 5146.5 202 14 65 608 SO(324] 5129.5 338 14 65 609 SO(324] 5129.5 338 14 65 609 SO(325] 5102.5 62 14 65 610 SO(326] 5095.5 202 14 65 611 SO(327] 5078.5 338 14 65 612 SO(328] 5061.5 62 14 65 613 SO(329] 5044.5 202 14 65 614 SO(330] 5027.5 338 14 65 615 SO(331] 4976.5 338 14 65 616 SO(332] 4993.5 202 14 65 617 SO(333] 4976.5 338 14 65 618 SO(334] 4999.5 62 14 65 619 SO(335) 4992.5 202 14 65 619 SO(335) 4992.5 202 14 65 610 SO(333) 4976.5 338 14 65 611 SO(329) 5044.5 202 14 65 612 SO(339) 4976.5 338 14 65 613 SO(339) 4976.5 338 14 65 614 SO(339) 4976.5 338 14 65 615 SO(331] 4992.5 202 14 65 616 SO(3331] 4992.5 62 14 65 617 SO(333] 4992.5 62 14 65 618 SO(334] 4999.5 62 14 65 620 SO(336) 4992.5 202 14 65 621 SO(339) 4891.5 202 14 65 622 SO(338) 4891.5 202 14 65 623 SO(339) 4874.5 338 14 65 624 SO(349) 4874.5 338 14 65 625 SO(341] 4880.5 202 14 65 626 SO(342] 4823.5 338 14 65 627 SO(341] 4880.5 202 14 65 628 SO(341] 4880.5 202 14 65 629 SO(345] 4792.5 338 14 65 630 SO(349) 4704.5 62 14 65 631 SO(349) 4704.5 62 14 65 632 SO(349) 4704.5 62 14 65 633 SO(349) 4704.5 62 14 65 634 SO(359) 4871.5 202 14 65 635 SO(349) 4704.5 62 14 65 641 SO(353) 4605.5 62 14 65 642 SO(344) 4789.5 202 14 65 643 SO(359) 4687.5 202 14 65 644 SO(350) 4483.5 202 14 65 655 SO(341) 4704.5 62 14 65 664 SO(350) 4431.5 338 14 65 665 SO(351) 4670.5 338 14 65 667 SO(360) 4432.5 202 14 65 668 SO(360) 4432.5 202 14 65 669 SO(360) 4432.5 202 14 65 660 SO(360) 4432.5 202 14 65 660 SO(360) 4432.5 202 14 65 661 SO(360) 4432.5 202 14 65 662 SO(360) 4432.5 202 14 65 663 SO(360) 4432.5 202 14 65 664 SO(360) 4432.5 202 14 65 665 SO(360) 4334.5 202 14 65 665 SO(360) 4345.5 202 14 65 665 SO(360) 4345.5 202 14 65 665 SO(360) 4345.5 202 14 65 665 SO(371) 4343.5 202 14 65 666 SO(373) 4296.5 62 14 65 667 SO(373) 4296.5 62 14 65 668 SO(373) 4296.5 62 14 65 669 SO(373) 4296.5 62 14 65 669 S	PAD No.	PAD Name	X-axis	Y-axis	w	Н
602						
603						
604						
605						
606						
607						
608						
609	607	SO[323]	5146.5	202		65
610	608	SO[324]	5129.5	338	14	65
611 SO(327) 5078.5 338 14 65 612 SO(328) 5061.5 62 14 65 613 SO(329) 5044.5 202 14 65 614 SO(330) 5027.5 338 14 65 615 SO(331) 5010.5 62 14 65 616 SO(332) 4993.5 202 14 65 616 SO(332) 4993.5 202 14 65 617 SO(333) 4976.5 338 14 65 618 SO(334) 4959.5 62 14 65 619 SO(335) 4942.5 202 14 65 620 SO(336) 4942.5 202 14 65 621 SO(337) 4908.5 62 14 65 622 SO(338) 4891.5 202 14 65 623 SO(339) 4874.5 338 14 65 624 SO(340) 4887.5 62 14 65 625 SO(341) 4840.5 202 14 65 626 SO(341) 4840.5 202 14 65 627 SO(341) 4890.5 62 14 65 628 SO(341) 4890.5 62 14 65 630 SO(346) 4772.5 338 14 65 631 SO(349) 4772.5 338 14 65 633 SO(349) 4772.5 338 14 65 631 SO(349) 4772.5 338 14 65 633 SO(349) 4772.5 338 14 65 634 SO(340) 4785.5 62 14 65 635 SO(341) 4806.5 62 14 65 636 SO(341) 4772.5 338 14 65 637 SO(343) 4772.5 338 14 65 638 SO(344) 4779.5 202 14 65 631 SO(345) 4772.5 338 14 65 632 SO(348) 4772.5 338 14 65 633 SO(349) 4774.5 62 14 65 634 SO(350) 4687.5 202 14 65 635 SO(341) 4805.5 62 14 65 636 SO(341) 4405.5 202 14 65 637 SO(345) 4772.5 338 14 65 638 SO(346) 4755.5 62 14 65 639 SO(345) 4772.5 338 14 65 631 SO(347) 4778.5 62 14 65 632 SO(348) 4771.5 338 14 65 633 SO(349) 4774.5 62 14 65 634 SO(350) 4687.5 202 14 65 635 SO(351) 4657.5 202 14 65 636 SO(352) 4653.5 202 14 65 637 SO(351) 4657.5 202 14 65 638 SO(354) 4453.5 202 14 65 639 SO(355) 400.5 62 14 65 640 SO(350) 4453.5 202 14 65 641 SO(360) 4453.5 202 14 65 642 SO(388) 453.5 202 14 65 643 SO(360) 4453.5 202 14 65 644 SO(360) 4453.5 202 14 65 645 SO(360) 4453.5 202 14 65 646 SO(360) 4453.5 202 14 65 651 SO(360) 4453.5 202 14 65 652 SO(360) 4453.5 202 14 65 653 SO(360) 4453.5 202 14 65 654 SO(360) 4453.5 202 14 65 655 SO(360) 4364.5 338 14 65 656 SO(372) 4364.5 338 14 65 657 SO(361) 4365.5 62 14 65 658 SO(374) 4375.5 62 14 65 659 SO(375) 4398.5 62 14 65 659 SO(375) 4262.5 3388 14 65	609	SO[325]	5112.5	62	14	65
612 SO[328] 5061.5 62 14 65 613 SO[329] 5044.5 202 14 65 614 SO[330] 5027.5 338 14 65 615 SO[331] 5010.5 62 14 65 616 SO[332] 4993.5 202 14 65 617 SO[333] 4976.5 338 14 65 618 SO[334] 4976.5 338 14 65 618 SO[334] 4976.5 338 14 65 619 SO[335] 4942.5 202 14 65 620 SO[336] 492.5 338 14 65 621 SO[337] 4908.5 62 14 65 622 SO[338] 4891.5 202 14 65 623 SO[338] 4897.5 62 14 65 624 SO[340] 4857.5 62 14 65 625 SO[341] 4800.5 202 14 65 626 SO[342] 4823.5 338 14 65 627 SO[343] 4806.5 62 14 65 628 SO[344] 4789.5 202 14 65 630 SO[344] 4772.5 338 14 65 631 SO[347] 4788.5 202 14 65 633 SO[348] 4771.5 338 14 65 633 SO[349] 4770.5 62 14 65 634 SO[340] 4585.5 62 14 65 635 SO[341] 4770.5 338 14 65 636 SO[342] 4583.5 338 14 65 637 SO[343] 4656.5 62 14 65 638 SO[344] 4789.5 62 14 65 639 SO[345] 4771.5 338 14 65 631 SO[347] 4788.5 202 14 65 633 SO[348] 4771.5 338 14 65 634 SO[350] 4657.5 202 14 65 635 SO[348] 4770.5 62 14 65 636 SO[342] 4482.5 62 14 65 637 SO[343] 4656.5 62 14 65 638 SO[344] 4487.5 62 14 65 639 SO[352] 4653.5 62 14 65 630 SO[344] 4487.5 62 14 65 631 SO[347] 4788.5 202 14 65 632 SO[348] 4721.5 338 14 65 633 SO[348] 4721.5 338 14 65 634 SO[350] 4657.5 202 14 65 635 SO[351] 4657.5 62 14 65 636 SO[352] 4653.5 62 14 65 637 SO[353] 4656.5 202 14 65 640 SO[350] 4487.5 202 14 65 651 SO[350] 4483.5 202 14 65 652 SO[360] 4487.5 62 14 65 654 SO[360] 4483.5 202 14 65 655 SO[351] 4600.5 338 14 65 656 SO[352] 4535.5 62 14 65 657 SO[360] 4483.5 202 14 65 658 SO[360] 4483.5 202 14 65 659 SO[360] 4483.5 202 14 65 650 SO[360] 4483.5 202 14 65 651 SO[360] 4483.5 202 14 65 652 SO[360] 4483.5 202 14 65 653 SO[360] 4483.5 202 14 65 654 SO[360] 4483.5 202 14 65 655 SO[360] 4300.5 202 14 65 656 SO[372] 4300.5 202 14 65 657 SO[373] 4296.5 62 14 65 658 SO[374] 4299.5 202 14 65 659 SO[375] 4262.5 338 14 65	610	SO[326]	5095.5	202	14	65
613 SO(329) 5044.5 202 14 65 614 SO(330) 5027.5 338 14 65 615 SO(331] 5010.5 62 14 65 616 SO(332] 4993.5 202 14 65 617 SO(333] 4976.5 338 14 65 618 SO(334] 4959.5 62 14 65 619 SO(335] 4942.5 202 14 65 620 SO(336] 4925.5 338 14 65 621 SO(337] 4908.5 62 14 65 622 SO(338] 4891.5 202 14 65 623 SO(339] 4874.5 338 14 65 624 SO(340) 4857.5 62 14 65 625 SO(341] 4857.5 62 14 65 626 SO(342] 4823.5 338 14 65 627 SO(341] 4890.5 62 14 65 628 SO(344] 4789.5 202 14 65 630 SO(345] 4772.5 338 14 65 631 SO(347] 4738.5 202 14 65 633 SO(348] 4755.5 62 14 65 634 SO(349] 4755.5 62 14 65 635 SO(349] 4778.5 202 14 65 6363 SO(349] 4798.5 202 14 65 637 SO(345] 4755.5 62 14 65 638 SO(344] 4789.5 202 14 65 639 SO(348] 4721.5 338 14 65 631 SO(347] 4738.5 202 14 65 633 SO(346] 4755.5 62 14 65 634 SO(350) 4687.5 202 14 65 635 SO(351] 4670.5 338 14 65 636 SO(352] 4653.5 62 14 65 637 SO(353] 4660 5 62 14 65 638 SO(354] 4670.5 338 14 65 639 SO(354] 4670.5 338 14 65 630 SO(356) 4687.5 202 14 65 631 SO(356) 4687.5 202 14 65 632 SO(348] 4791.5 62 14 65 633 SO(356) 4687.5 202 14 65 634 SO(350) 4687.5 202 14 65 635 SO(351] 4670.5 338 14 65 636 SO(352] 4653.5 62 14 65 637 SO(353] 4660.5 62 14 65 638 SO(354] 4670.5 338 14 65 639 SO(356] 4432.5 202 14 65 650 SO(366] 4431.5 202 14 65 651 SO(367] 4398.5 62 14 65 652 SO(368] 4391.5 202 14 65 653 SO(366] 4435.5 202 14 65 654 SO(366] 4435.5 202 14 65 655 SO(366] 4435.5 202 14 65 656 SO(366] 4435.5 202 14 65 657 SO(367] 4398.5 62 14 65 658 SO(371] 4398.5 62 14 65 659 SO(371] 4305.5 202 14 65 659 SO(371] 4262.5 338 14 65	611	SO[327]	5078.5	338	14	65
614	612	SO[328]	5061.5	62	14	65
615	613	SO[329]	5044.5	202	14	65
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618	616	SO[332]	4993.5	202	14	65
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620	618	SO[334]	4959.5	62	14	65
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644 \$O(360) 4517.5 338 14 65 645 \$Q(361) 4500.5 62 14 65 646 \$O(362) 4483.5 202 14 65 647 \$O(363) 4466.5 338 14 65 648 \$O(364) 4449.5 62 14 65 649 \$O(365) 4432.5 202 14 65 650 \$O(366) 4415.5 338 14 65 651 \$O(367) 4398.5 62 14 65 652 \$O(368) 4381.5 202 14 65 653 \$O(369) 4364.5 338 14 65 654 \$O(370) 4347.5 62 14 65 655 \$O(371) 4330.5 202 14 65 656 \$O(372) 4313.5 338 14 65 657 \$O(373) 4296.5 62	- (\	- //	//	11	\sim	
645 SQ[361] 4500.5 62 14 65 640 SQ[362] 4483.5 202 14 65 647 SQ[363] 4466.5 338 14 65 648 SQ[364] 4449.5 62 14 65 649 SQ[365] 4432.5 202 14 65 650 SQ[366] 4415.5 338 14 65 651 SQ[367] 4398.5 62 14 65 652 SQ[368] 4381.5 202 14 65 653 SQ[369] 4364.5 338 14 65 654 SQ[370] 4347.5 62 14 65 655 SQ[371] 4330.5 202 14 65 656 SQ[372] 4313.5 338 14 65 657 SQ[373] 4296.5 62 14 65 658 SQ[374] 4279.5 202 14 65 658 SQ[374] 4279.5 202 14 65	-/-	 			\rightarrow	
64b SO[362] 4483.5 202 14 65 647 SO[363] 4466.5 338 14 65 648 SO[364] 4449.5 62 14 65 649 SO[365] 4432.5 202 14 65 650 SO[366] 4415.5 338 14 65 651 SO[367] 4398.5 62 14 65 652 SO[368] 4381.5 202 14 65 653 SO[369] 4364.5 338 14 65 654 SO[370] 4347.5 62 14 65 655 SO[371] 4330.5 202 14 65 656 SO[372] 4313.5 338 14 65 657 SO[373] 4296.5 62 14 65 658 SO[374] 4279.5 202 14 65 659 SO[375] 4262.5 338 <td>$\rightarrow \rightarrow \rightarrow$</td> <td></td> <td></td> <td>•</td> <td>/ / / / / / / / / / / / / / / / / / / </td> <td></td>	$\rightarrow \rightarrow \rightarrow$			•	/ / / / / / / / / / / / / / / / / / / 	
647 SO[363] 4466.5 338 14 65 648 SO[364] 4449.5 62 14 65 649 SO[365] 4432.5 202 14 65 650 SO[366] 4415.5 338 14 65 651 SO[367] 4398.5 62 14 65 652 SO[368] 4381.5 202 14 65 653 SO[369] 4364.5 338 14 65 654 SO[370] 4347.5 62 14 65 655 SO[371] 4330.5 202 14 65 656 SO[372] 4313.5 338 14 65 657 SO[373] 4296.5 62 14 65 658 SO[374] 4279.5 202 14 65 658 SO[374] 4279.5 202 14 65	$\overline{}$	-				
648 SO[364] 4449.5 62 14 65 649 SO[365] 4432.5 202 14 65 650 SO[366] 4415.5 338 14 65 651 SO[367] 4398.5 62 14 65 652 SO[368] 4381.5 202 14 65 653 SO[369] 4364.5 338 14 65 654 SO[370] 4347.5 62 14 65 655 SO[371] 4330.5 202 14 65 656 SO[372] 4313.5 338 14 65 657 SO[373] 4296.5 62 14 65 658 SO[374] 4279.5 202 14 65 659 SO[375] 4262.5 338 14 65	- //-					
649 SO[365] 4432.5 202 14 65 650 SO[366] 4415.5 338 14 65 651 SO[367] 4398.5 62 14 65 652 SO[368] 4381.5 202 14 65 653 SO[369] 4364.5 338 14 65 654 SO[370] 4347.5 62 14 65 655 SO[371] 4330.5 202 14 65 656 SO[372] 4313.5 338 14 65 657 SO[373] 4296.5 62 14 65 658 SO[374] 4279.5 202 14 65 659 SO[375] 4262.5 338 14 65						
650 SO[366] 4415.5 338 14 65 651 SO[367] 4398.5 62 14 65 652 SO[368] 4381.5 202 14 65 653 SO[369] 4364.5 338 14 65 654 SO[370] 4347.5 62 14 65 655 SO[371] 4330.5 202 14 65 656 SO[372] 4313.5 338 14 65 657 SO[373] 4296.5 62 14 65 658 SO[374] 4279.5 202 14 65 659 SO[375] 4262.5 338 14 65						
651 SO[367] 4398.5 62 14 65 652 SO[368] 4381.5 202 14 65 653 SO[369] 4364.5 338 14 65 654 SO[370] 4347.5 62 14 65 655 SO[371] 4330.5 202 14 65 656 SO[372] 4313.5 338 14 65 657 SO[373] 4296.5 62 14 65 658 SO[374] 4279.5 202 14 65 659 SO[375] 4262.5 338 14 65						
652 SO[368] 4381.5 202 14 65 653 SO[369] 4364.5 338 14 65 654 SO[370] 4347.5 62 14 65 655 SO[371] 4330.5 202 14 65 656 SO[372] 4313.5 338 14 65 657 SO[373] 4296.5 62 14 65 658 SO[374] 4279.5 202 14 65 659 SO[375] 4262.5 338 14 65		SO[366]		338		
653 SO[369] 4364.5 338 14 65 654 SO[370] 4347.5 62 14 65 655 SO[371] 4330.5 202 14 65 656 SO[372] 4313.5 338 14 65 657 SO[373] 4296.5 62 14 65 658 SO[374] 4279.5 202 14 65 659 SO[375] 4262.5 338 14 65	651	SO[367]	4398.5	62		65
654 SO[370] 4347.5 62 14 65 655 SO[371] 4330.5 202 14 65 656 SO[372] 4313.5 338 14 65 657 SO[373] 4296.5 62 14 65 658 SO[374] 4279.5 202 14 65 659 SO[375] 4262.5 338 14 65	652		4381.5	202	14	65
655 SO[371] 4330.5 202 14 65 656 SO[372] 4313.5 338 14 65 657 SO[373] 4296.5 62 14 65 658 SO[374] 4279.5 202 14 65 659 SO[375] 4262.5 338 14 65	653	SO[369]	4364.5	338	14	65
656 SO[372] 4313.5 338 14 65 657 SO[373] 4296.5 62 14 65 658 SO[374] 4279.5 202 14 65 659 SO[375] 4262.5 338 14 65	654	SO[370]	4347.5	62	14	65
657 SO[373] 4296.5 62 14 65 658 SO[374] 4279.5 202 14 65 659 SO[375] 4262.5 338 14 65	655	SO[371]	4330.5	202	14	65
658 SO[374] 4279.5 202 14 65 659 SO[375] 4262.5 338 14 65	656	SO[372]	4313.5	338	14	65
659 SO[375] 4262.5 338 14 65	657	SO[373]	4296.5	62	14	65
	658	SO[374]	4279.5	202	14	65
660 SO[376] 4245.5 62 14 65		00(275)	1262.5	338	1/4	65
	659	30[3/3]	4202.3	330	17	0.5

PAD No.	PAD Name	X-axis	Y-axis	W	Н
661	SO[377]	4228.5	202	14	65
662	SO[378]	4211.5	338	14	65
663	SO[379]	4194.5	62	14	65
664	SO[380]	4177.5	202	14	65
665	SO[381]	4160.5	338	14	65
666	SO[382]	4143.5	62	14	65
667	SO[383]	4126.5	202	14	65
668	SO[384]	4109.5	338	14	65
669	SO[385]	4092.5	62	14	65
670	SO[386]	4075.5	202	14	<u> </u>
671	SO[387]	4058.5	338	14	85
672	SO[388]	4041.5	62	14	64
673	SO[389]	4024.5	202	~ [/ \	
674	SO[390]	4007.5	338	14	65
675	SO[391]	3990.5	(2)	14	65
676	SO[392]	3973.5	202	14	65
677	SO[393]	3956.5	138	14	65
678	SO[394]	3939.5	2/8	14	65
679	SO[395]	39223	203	14	65
680	SO[396	3905,5	338	^ 14	65
681	\$0(\$)	3888.5	62	14	65
682	SO[398]	38/1.5	202	A	65
683	80[399]	3854.5	338	14	65
684	S O[400]	3837.5	62/) Jr	65
1885	SQ[301]	3820.5	200	→ 14	65
1 86	SO[402]	3803.5	338	14	65
d87	SO[403]	3786.5)62	14	65
988	SO[404]	3769,5	202	14	65
689	80[405]	3752.5	338	14	65
690	\$0[406]	3735.5	62	14	65
681	\$0[407]	3718.5	202	14	65
3 92	SO[408]	3701.5	338	14	65
693	SO[409]	3684.5	62	14	65
694	SO[410]	3667.5	202	14	65
695	SO[411]	3650.5	338	14	65
696	SO[412]	3633.5	62	14	65
697	SO[413]	3616.5	202	14	65
698	SO[414]	3599.5	338	14	65
699	SO[415]	3582.5	62	14	65
700	SO[416]	3565.5	202	14	65
701	SO[417]	3548.5	338	14	65
702	SO[418]	3531.5	62	14	65
703	SO[419]	3514.5	202	14	65
704	SO[420]	3497.5	338	14	65
705	SO[421]	3480.5	62	14	65
706	SO[422]	3463.5	202	14	65
707	SO[423]	3446.5	338	14	65
708	SO[424]	3429.5	62	14	65
709	SO[425]	3412.5	202	14	65
710	SO[426]	3395.5	338	14	65
711	SO[427]	3378.5	62	14	65
712	SO[428]	3361.5	202	14	65
713	SO[429]	3344.5	338	14	65
714	SO[430]	3327.5	62	14	65
715	SO[431]	3310.5	202	14	65
716	SO[432]	3293.5	338	14	65
717	SO[433]	3276.5	62	14	65
718	SO[434]	3259.5	202	14	65
719	SO[435]	3242.5	338	14	65
720	SO[436]	3225.5	62	14	65

PAD No.	PAD Name	X-axis	Y-axis	W	Н
721	SO[437]	3208.5	202	14	65
722	SO[438]	3191.5	338	14	65
723		3174.5	62	14	
	SO[439]				65
724	SO[440]	3157.5	202	14	65
725	SO[441]	3140.5	338	14	65
726	SO[442]	3123.5	62	14	65
727	SO[443]	3106.5	202	14	65
728	SO[444]	3089.5	338	14	65
729	SO[445]	3072.5	62	14	65
730	SO[446]	3055.5	202	14	65
731	SO[447]	3038.5	338	14	65
732	SO[448]	3021.5	62	14	65
733	SO[449]	3004.5	202	14	65
734	SO[450]	2987.5	338	14	65
735	SO[451]	2970.5	62	14	65
736	SO[452]	2953.5	202	14	65
737	SO[453]	2936.5	338	14	65
738	SO[454]	2919.5	62	14	65
739	SO[455]	2902.5	202	14	65
740	SO[456]	2885.5	338	14	65
741	SO[457]	2868.5	62	14	65
742	SO[458]	2851.5	202	14	65
743	SO[459]	2834.5	338	14	65
744	SO[460]	2817.5	62	14	65
745	SO[461]	2800.5	202	14	65
746	SO[462]	2783.5	338	14	65
747	SO[463]	2766.5	62	14	65
748	SO[464]	2749.5	202	14	65 /
749	SO[465]	2732.5	338	14	65
750	SO[466]	2715.5	62	14	65
					\sim
751	SO[467]	2698.5	202	14)6
752	SO[468]	2681.5	338	14	V 65
753	SO[469]	2664.5	62	14	65
754	SO[470]	2647.5	202	14	√ 65
755	SO[471]	2630.5	338	14	65
756	SO[472]	2613.5	1/65	14	65
757	SO[473]	2596.8	202	14	65
758	SO[474]	2579.5	B3B	14	85
759	SO[475]	23625	J6 2	1	63
760	SO[476)	2548.5	202	14	65
761	SØ[477]	2528.5	338	\ \\\	65
762	30[478]	2511.5	8	11/1	65
763	SO[479]	2494.5	202	114	65
764	SO[480]	2477.5	338	14	65
$\overline{}$	- 	2460.5	,	14	
1965	SQ[481]		62		65
768	SO[482]	2443.5	202	14	65
767	SO[483]	2426.5	338	14	65
768	SO[484]	2409.5	62	14	65
769	SO[485]	2392.5	202	14	65
770	SO[486]	2375.5	338	14	65
771	SO[487]	2358.5	62	14	65
772	SO[488]	2341.5	202	14	65
773	SO[489]	2324.5	338	14	65
774	SO[490]	2307.5	62	14	65
	SO[491]	2290.5	202	14	65
775				14	65
775 776	SO[//021	2273.5			
776	SO[492]	2273.5	338		
776 777	SO[493]	2256.5	62	14	65
776 777 778	SO[493] SO[494]	2256.5 2239.5	62 202	14 14	65 65
776 777 778 779	SO[493] SO[494] SO[495]	2256.5 2239.5 2222.5	62 202 338	14 14 14	65 65 65
776 777 778	SO[493] SO[494]	2256.5 2239.5	62 202	14 14	65 65

PAD No.	PAD Name	X-axis	Y-axis	W	Н
781	SO[497]	2188.5	202	14	65
782	SO[498]	2171.5	338	14	65
783	SO[499]	2154.5	62	14	65
784	SO[500]	2137.5	202	14	65
785	SO[501]	2120.5	338	14	65
786	SO[502]	2103.5	62	14	65
787	SO[502]	2086.5	202	14	65
788	SO[504]	2069.5	338	14	65
789	SO[504]	2052.5	62	14	65
790	SO[506]	2032.5	202	14	△ 65
791	SO[507]	2018.5	338	14	05
792	SO[508]	2001.5	62	14	126
793	SO[509]	1984.5	202	~ ()*	
794	SO[510]	1967.5	338	12/	65
795	SO[510]	1950.5	550	14	65
796	SO[511]	1933.5	202	14	65
797	SO[512]	1916.5	1538	14	65
798		_//	11 >	14	65
798	SO[514] SO[515]	1882.5	202	14	65
800	SO[515]	1863.5	338	14	65
801	SOSTO	1848.5	62	14	65
802	SO[518]	1848.5	202)4	65
802	80[318]	1814.5	202	14	65
804	SO[520]	1797.5	62	LIT LITE	65
\leftarrow	/ // /		$\overline{}$	$\overline{}$	
805	SO[521] SO[522]	1780.5 1763.5	338	14	65 65
806	SO[523]	1746.5	- 	14	
\$07	SO[524])62	14	65
		1729.5	202		65
809 810	SO[525]	1712/5	338 62	14	65 65
810	SO[526] SO[527]	1678.5	202	14	65
\sim //		1661.5	338	14	65
812 813	SO[528] SO[529]	1644.5	62	14	65
814	SO[530]	1627.5	202	14	65
815	SO[530]		338	14	
816	SO[531]	1610.5 1593.5	62	14	65 65
817	SO[532]	1576.5	202	14	65
818		1559.5	338	14	65
	SO[534]				
819 820	SO[535]	1542.5 1525.5	62 202	14	65 65
820	SO[536]			14	
822	SO[537]	1508.5 1491.5	338 62	14	65 65
822	SO[538] SO[539]	1491.5	202	14	65
824	SO[539] SO[540]	1474.5	338	14	65
825	SO[540] SO[541]	1437.5	62	14	65
				14	
826	SO[542]	1423.5 1406.5	202	14	65
827 828	SO[543]	1389.5	338 62	14	65 65
828	SO[544]	1372.5	202	14	65
	SO[545] SO[546]			14	
830		1355.5	338	14	65 65
831	SO[547]	1338.5	62		
832	SO[548]	1321.5	202	14	65
833	SO[549]	1304.5	338	14	65
834	SO[550]	1287.5	62	14	65
835	SO[551]	1270.5	202	14	65
836	SO[552]	1253.5	338	14	65
837	SO[553]	1236.5	62	14	65
838	SO[554]	1219.5	202	14	65
839	SO[555]	1202.5	338	14	65
840	SO[556]	1185.5	62	14	65

PAD No.	PAD Nome	X-axis	Y-axis	W	Н
	PAD Name				
841	SO[557]	1168.5	202	14	65
842	SO[558]	1151.5	338	14	65
843	SO[559]	1134.5	62	14	65
844	SO[560]	1117.5	202	14	65
845	SO[561]	1100.5	338	14	65
846	SO[562]	1083.5	62	14	65
847	SO[563]	1066.5	202	14	65
848	SO[564]	1049.5	338	14	65
849	SO[565]	1032.5	62	14	65
850	SO[566]	1015.5	202	14	65
851	SO[567]	998.5	338	14	65
852	SO[568]	981.5	62	14	65
853	SO[569]	964.5	202	14	65
854	SO[570]	947.5	338	14	65
855	SO[571]	930.5	62	14	65
856	SO[572]	913.5	202	14	65
857	SO[573]	896.5	338	14	65
858	SO[574]	879.5	62	14	65
859	SO[571]	862.5	202	14	65
860	SO[576]	845.5	338	14	65
861	SO[576] SO[577]	828.5	62	14	65
			202	14	
862 863	SO[578]	811.5 794.5	338	14	65
	SO[579]				
864	SO[580]	777.5	62	14	65
865	SO[581]	760.5	202	14	65
866	SO[582]	743.5	338	14	65
867	SO[583]	726.5	62	14	65
868	SO[584]	709.5	202	14	65
869	SO[585]	692.5	338	14	65
870	SO[586]	675.5	62	14	65
871	SO[587]	658.5	202	14)\$
872	SO[588]	641.5	338	14	V-65
873	SO[589]	624.5	62	14	65
874	SO[590]	607.5	202	Ya	65
875	SO[591]	590.5	338	14	65
876	SO[592]	573.5	16	14	65
877	SO[593]	556.8	202	14	65
878	SO[594]	539.5	338	14	\$5
879	SO[595]	3925	62	J4	63
880	SO[5%)	50\$.5	202	14	65
881	SØ[597]	488.5	338	\ \\ ₄	65
882	SQ\598]	421.5	6		65
883	SO[309]	454.5	202	114	65
884	SO[600]		- //	\rightarrow	
\longleftrightarrow		437.5	338	14	65
885	SHINDING[39]	403.5	338	14	65
888	SHIELDING[40]	369.5	338	14	65
887	SHIELDING[41]	335.5	338	14	65
		301.5	338	14	65
888	SHIELDING[42]				
888 889	SHIELDING[43]	267.5	338	14	65
	SHIELDING[43] SHIELDING[44]		338 338	14 14	65 65
889	SHIELDING[43]	267.5			
889 890	SHIELDING[43] SHIELDING[44]	267.5 233.5	338	14	65
889 890 891	SHIELDING[43] SHIELDING[44] SHIELDING[45]	267.5 233.5 -233.5	338 338	14 14	65 65
889 890 891 892	SHIELDING[43] SHIELDING[44] SHIELDING[45] SHIELDING[46]	267.5 233.5 -233.5 -267.5	338 338 338	14 14 14	65 65 65
889 890 891 892 893	SHIELDING[43] SHIELDING[44] SHIELDING[45] SHIELDING[46] SHIELDING[47]	267.5 233.5 -233.5 -267.5 -301.5	338 338 338 338	14 14 14	65 65 65 65
889 890 891 892 893 894	SHIELDING[43] SHIELDING[44] SHIELDING[45] SHIELDING[46] SHIELDING[47] SHIELDING[48]	267.5 233.5 -233.5 -267.5 -301.5 -335.5	338 338 338 338 338	14 14 14 14 14	65 65 65 65 65
889 890 891 892 893 894	SHIELDING[43] SHIELDING[44] SHIELDING[45] SHIELDING[46] SHIELDING[47] SHIELDING[48] SHIELDING[49]	267.5 233.5 -233.5 -267.5 -301.5 -335.5 -369.5	338 338 338 338 338 338	14 14 14 14 14 14	65 65 65 65 65 65
889 890 891 892 893 894 895 896	SHIELDING[43] SHIELDING[45] SHIELDING[46] SHIELDING[46] SHIELDING[47] SHIELDING[48] SHIELDING[49] SHIELDING[50]	267.5 233.5 -233.5 -267.5 -301.5 -335.5 -369.5 -403.5 -437.5	338 338 338 338 338 338 338 338	14 14 14 14 14 14 14	65 65 65 65 65 65 65 65
889 890 891 892 893 894 895 896 897	SHIELDING[43] SHIELDING[44] SHIELDING[46] SHIELDING[46] SHIELDING[47] SHIELDING[48] SHIELDING[49] SHIELDING[50] SO[601] SO[602]	267.5 233.5 -233.5 -267.5 -301.5 -335.5 -369.5 -403.5 -437.5 -454.5	338 338 338 338 338 338 338 338 202	14 14 14 14 14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65
889 890 891 892 893 894 895 896	SHIELDING[43] SHIELDING[45] SHIELDING[46] SHIELDING[46] SHIELDING[47] SHIELDING[48] SHIELDING[49] SHIELDING[50]	267.5 233.5 -233.5 -267.5 -301.5 -335.5 -369.5 -403.5 -437.5	338 338 338 338 338 338 338 338	14 14 14 14 14 14 14 14	65 65 65 65 65 65 65

PAD No.	PAD Name	X-axis	Y-axis	W	Н	
901	SO[605]	-505.5	202	14	65	
902	SO[606]	-522.5	62	14	65	
903	SO[607]	-539.5	338	14	65	
904	SO[608]	-556.5	202	14	65	
905	SO[609]	-573.5	62	14	65	
906	SO[610]	-590.5	338	14	65	
907	SO[611]	-607.5	202	14	65	
908	SO[612]	-624.5	62	14	65	
909	SO[613]	-641.5	338	14	65	
910	SO[614]	-658.5	202	14	<u> </u>	
911	SO[615]	-675.5	62	14	\$5	
912	SO[616]	-692.5	338	14	16	
913	SO[617]	-709.5	202	2/4 //		
914	SO[618]	-726.5	62	14	65	
915	SO[619]	-743.5	35%	14	65	
916	SO[620]	-760.5	202	14	65	
917	SO[621]	-777.5	169	14	65	
918	SO[622]	1945	338	14	65	
919	SO[623]	-81\3	203	14	65	
920	SO[624	-8285	62	↑ 14	65	
921	SO[625]	-845.5	338	14	65	
922	SO[628]	-862.5	202	/ 4	65	
923	80[827]	-879.5	62	14	65	
924	SO[628]	-896.5	338	JA .	65	
P25	SQ[\$29]	-913.5	505	→ 14	65	
1 84	SO[630]	-9\$0.5	62	14	65	
927	SO[631]	-947.5	338	14	65	
928	SO[632]	964.3	202	14	65	
929	80[633]	-981/5	62	14	65	
930	SO[634]	-998.5	338	14	65	
98)	\$0[635]	-1015.5	202	14	65	
9 82	SO[636]	-1032.5	62	14	65	
933	\$0[637]	-1049.5	338	14	65	
934	SO[638]	-1066.5	202	14	65	
935	SO[639]	-1083.5	62	14	65	
936	SO[640]	-1100.5	338	14	65	
937	SO[641]	-1117.5	202	14	65	
938	SO[642]	-1134.5	62	14	65	
939	SO[643]	-1151.5	338	14	65	
940	SO[644]	-1168.5	202	14	65	
941	SO[645] SO[646]	-1185.5 -1202.5	62 338	14 14	65	
942	SO[647]	-1202.3	202	14	65	
944	SO[648]	-1236.5	62	14	65	
945	SO[649]	-1253.5	338	14	65	
946	SO[650]	-1270.5	202	14	65	
947	SO[651]	-1287.5	62	14	65	
948	SO[652]	-1304.5	338	14	65	
949	SO[653]	-1321.5	202	14	65	
950	SO[654]	-1338.5	62	14	65	
951	SO[655]	-1355.5	338	14	65	
952	SO[656]	-1372.5	202	14	65	
953	SO[657]	-1389.5	62	14	65	
954	SO[658]	-1406.5	338	14	65	
955	SO[659]	-1423.5	202	14	65	
956	SO[660]	-1440.5	62	14	65	
957	SO[661]	-1457.5	338	14	65	
958	SO[662]	-1474.5	202	14	65	
959	SO[663]	-1491.5	62	14	65	
960	SO[664]	-1508.5	338	14	65	
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PAD No.	PAD Name	X-axis	Y-axis	W	Н
961	SO[665]	-1525.5	202	14	65
962	SO[666]	-1542.5	62	14	65
963	SO[667]	-1559.5	338	14	65
964	SO[668]	-1576.5	202	14	65
965	SO[669]	-1593.5	62	14	65
966	SO[670]	-1610.5	338	14	65
967	SO[671]	-1627.5	202	14	65
968	SO[672]	-1644.5	62	14	65
969	SO[673]	-1661.5	338	14	65
970	SO[674]	-1678.5	202	14	65
			62	14	65
971	SO[675]	-1695.5			
972	SO[676]	-1712.5	338	14	65
973	SO[677]	-1729.5	202	14	65
974	SO[678]	-1746.5	62	14	65
975	SO[679]	-1763.5	338	14	65
976	SO[680]	-1780.5	202	14	65
977	SO[681]	-1797.5	62	14	65
978	SO[682]	-1814.5	338	14	65
979	SO[683]	-1831.5	202	14	65
980	SO[684]	-1848.5	62	14	65
981	SO[685]	-1865.5	338	14	65
		-1803.5 -1882.5		14	
982	SO[686]		202		65
983	SO[687]	-1899.5	62	14	65
984	SO[688]	-1916.5	338	14	65
985	SO[689]	-1933.5	202	14	65
986	SO[690]	-1950.5	62	14	65
987	SO[691]	-1967.5	338	14	65
988	SO[692]	-1984.5	202	14	65
989	SO[693]	-2001.5	62	14	65
990	SO[694]	-2018.5	338	14	65
991	SO[695]	-2035.5	202	14)63
992	SO[696]	-2052.5	62	14	65
				// .	\leftarrow
993	SO[697]	-2069.5	338	14	65
994	SO[698]	-2086.5	202	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	√65 √65
995	SO[699]	-2103.5	62	14	65
996	SO[700]	-2120.5	348	14	65
997	SO[701]	-2137	202	14	65
998	SO[702]	-21545	63	14	85
999	SO[703]	-2171.5	<i>53</i> 8		63
1000	SO[764)	2188.5	202	14	65
1001	SO[705]	-2205.5	62	/ //	65
1002	SQ[706]	-2822.5	338	1/1/	65
1963	(40f JOS	-2239.5	202	114	65
-//-	· · · ·		- //	\sim	
1004	SO[708]	-2256.5	62	14	65
1005	SQ[709]	-2273.5	338	14	65
1006	SO[710]	-2290.5	202	14	65
1007	SO[711]	-2307.5	62	14	65
1008	SO[712]	-2324.5	338	14	65
1009	SO[713]	-2341.5	202	14	65
1010	SO[714]	-2358.5	62	14	65
1011	SO[715]	-2375.5	338	14	65
1012	SO[716]	-2392.5	202	14	65
1013	SO[717]	-2409.5	62	14	65
1013		-2426.5	338	14	65
	SO[718]				
1015	SO[719]	-2443.5	202	14	65
1016	SO[720]	-2460.5	62	14	65
1017	SO[721]	-2477.5	338	14	65
1018	SO[722]	-2494.5	202	14	65
1019	SO[723]	-2511.5	62	14	65
	50(724)	-2528.5	338	14	65
1020	SO[724]	-2320.3	550		

PAD No.	PAD Name	X-axis	Y-axis	W	Н
1021	SO[725]	-2545.5	202	14	65
1022	SO[726]	-2562.5	62	14	65
1023	SO[727]	-2579.5	338	14	65
1023	SO[728]	-2596.5	202	14	65
1024	SO[728]	-2613.5	62	14	65
				14	
1026	SO[730]	-2630.5	338		65
1027	SO[731]	-2647.5	202	14	65
1028	SO[732]	-2664.5	62	14	65
1029	SO[733]	-2681.5	338	14	65
1030	SO[734]	-2698.5	202	14	65
1031	SO[735]	-2715.5	62	14	185
1032	SO[736]	-2732.5	338	14	6
1033	SO[737]	-2749.5	202	14	
1034	SO[738]	-2766.5	62	// //	65
1035	SO[739]	-2783.5	368	14	65
1036	SO[740]	-2800.5	202	14	65
1037	SO[741]	-2817.5	1651	<u> </u>	65
1038	SO[742]	-2834.5	3/3/8	14	65
1039	SO[743]	285\(.5\)	203	14	65
1040	SO[744	-2868.5	62	14	65
1041	SO[745]	-2885.5	338	14	65
1042	SO[748]	-2902.5	202	14	65
1042	80[747]	¥2919.5	(22)	14	65
1044	SO[748]	-2936.5	338	YW.	65
PH5	SQ[349]	-2953.5	1 /500	14	65
1048	SO[750]	-2970.5	62	14	65
1047	SO[751]	-2987.3	338	14	65
1048	SO[752]	3004.5	202	14	65
1049	SO[753]	-3021/.5	62	14	65
1050	SO[754]	-3038.5	338	14	65
1051	\$0(755]	-3055.5	202	14	65
1052	SO[756]	-3072.5	62	14	65
1053	\$0[757]	-3089.5	338	14	65
1054	SO[758]	-3106.5	202	14	65
1055	SO[759]	-3123.5	62	14	65
1056	SO[760]	-3140.5	338	14	65
1057	SO[761]	-3157.5	202	14	65
1058	SO[762]	-3174.5	62	14	65
1059	SO[763]	-3191.5	338	14	65
1060	SO[764]	-3208.5	202	14	65
1061	SO[765]	-3225.5	62	14	65
1062	SO[766]	-3242.5	338	14	65
1063	SO[767]	-3259.5	202	14	65
1064	SO[768]	-3276.5	62	14	65
1065	SO[769]	-3293.5	338	14	65
1066	SO[770]	-3310.5	202	14	65
1067	SO[771]	-3327.5	62	14	65
1068	SO[772]	-3344.5	338	14	65
	SO[773]	-3361.5	202		65
1070	SO[774]	-3378.5	62	14	65
1071	SO[775]	-3395.5	338	14	65
1072	SO[776]	-3412.5	202	14	65
1073	SO[777]	-3429.5	62	14	65
1074	SO[778]	-3446.5	338	14	65
1075	SO[779]	-3463.5	202	14	65
1076	SO[780]	-3480.5	62	14	65
1077	SO[781]	-3497.5	338	14	65
1078			1 202	14	65
	SO[782]	-3514.5	202		0.5
1079 1080	SO[782] SO[783] SO[784]	-3514.5 -3531.5 -3548.5	62 338	14	65

PAD No.	PAD Name	X-axis	Y-axis	W	Н
1081	SO[785]	-3565.5	202	14	65
1082	SO[786]	-3582.5	62	14	65
1083	SO[787]	-3599.5	338	14	65
1084	SO[788]	-3616.5	202	14	65
1085	SO[789]	-3633.5	62	14	65
1086	SO[790]	-3650.5	338	14	65
1087	SO[791]	-3667.5	202	14	65
1088	SO[792]	-3684.5	62	14	65
1089	SO[793]	-3701.5	338	14	65
1090	SO[794]	-3718.5	202	14	65
1091	SO[795]	-3735.5	62	14	65
1092	SO[796]	-3752.5	338	14	65
1093	SO[797]	-3769.5	202	14	65
1094	SO[798]	-3786.5	62	14	65
				14	
1095	SO[799]	-3803.5	338		65
1096	SO[800]	-3820.5	202	14	65
1097	SO[801]	-3837.5	62	14	65
1098	SO[802]	-3854.5	338	14	65
1099	SO[803]	-3871.5	202	14	65
1100	SO[804]	-3888.5	62	14	65
1101	SO[805]	-3905.5	338	14	65
1102	SO[806]	-3922.5	202	14	65
1103	SO[807]	-3939.5	62	14	65
1104	SO[808]	-3956.5	338	14	65
1105	SO[809]	-3973.5	202	14	65
1106	SO[810]	-3990.5	62	14	65
1107	SO[811]	-4007.5	338	14	65
1108	SO[812]	-4024.5	202	14	65
1109	SO[813]	-4041.5	62	14	65
1110	SO[814]	-4058.5	338	14	65
1111	SO[815]	-4075.5	202	14)6}
1112	SO[816]	-4092.5	62	14	V-65
1113	SO[817]	-4109.5	338	14	65
1114	SO[818]	-4126.5	202	\\Y4	65
1115	SO[819]	-4143.5	62	14	65
1116	SO[820]	-4160.5	388	14	65
1117	SO[821]	-4177	202	14	65
1118	SO[822]	-41945			
1119			61	14	85
	SO[823]	-42(1),5	538	14	63
1120	SO[823] SO[834)	-4311.5	338		63
1120 1121	SO[834)	-4211.5 A278.5	202	14	65
1121	SO[824) SO[825]	-43(1).5 -42(8.5 -42(45.5	202 62	14	65 65
1121	SO[824] SO[825] SO[826]	-42(1).5 +22/8.5 +22/45.5 -48/2.5	62 388	14 14	65 65 65
1121 1122 1123	SO[825] SO[825] SO[826] SO[827]	-42/1.5 -42/1.5 -42/1.5 -42/1.5 -42/1.5	62 62 348 202	14	65 65 65 65
1121 1122 1123	SO[824] SØ[825] SØ[826] SO[828]	-4211.5 -4215.5 -4245.5 -422.5 -4279.5 -4296.5	62 62 348 202 62	14	65 65 65 65 65
1121 1122 1123 1124 1125	SO[824] SO[825] SO[826] SO[827] SO[828] SO[829]	-421.5 -422.5 -422.5 -429.5 -4296.5 -4313.5	62 338 202 62 338 202 62 338	14 14 14	65 65 65 65 65
1121 1122 1124 1124 1126	SO[825] SO[825] SO[826] SO[827] SO[828] SO[829] SO[830]	-431.5 -428.5 -428.5 -4279.5 -4296.5 -4313.5 -4330.5	62 348 202 62 338 202 62 338 202	14 14 14 14	65 65 65 65 65 65
1121 1122 1123 1124 1125 1126	SO[825] SO[825] SO[825] SO[826] SO[828] SO[828] SO[830] SO[831]	-331,5 4245.5 422.5 -4279.5 -4296.5 -4313.5 -4330.5 -4347.5	202 62 338 202 62 338 202 62	14 14 14 14 14	65 65 65 65 65 65 65 65
1121 1122 1124 1124 1127 1128	SO[825] SO[825] SO[826] SO[826] SO[828] SO[830] SO[831] SO[832]	-331,5 4245,5 422,5 -4279,5 -4296,5 -4313,5 -4330,5 -4347,5 -4364,5	62 348 202 62 338 202 62 338 202 62 338	14 14 14 14 14 14	65 65 65 65 65 65 65 65
1121 1122 1123 1124 1125 1127 1128 1129	SO[825] SO[825] SO[826] SO[826] SO[828] SO[830] SO[831] SO[832] SO[833]	-2015 -2245 -4225 -4279.5 -4296.5 -4313.5 -4347.5 -4364.5 -4381.5	62 348 202 62 338 202 62 338 202 62 338 202	14 14 14 14 14 14 14	65 65 65 65 65 65 65 65 65
1121 1122 1123 1124 1125 1127 1128 1129 1130	SO[825] SO[825] SO[826] SO[826] SO[828] SO[830] SO[831] SO[832] SO[833] SO[834]	-321,5 -2245,5 -4225,5 -4279,5 -4296,5 -4313,5 -4330,5 -4347,5 -4364,5 -4381,5 -4398,5	62 348 202 62 338 202 62 338 202 62 62	14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65 65 65
1121 1122 1124 1125 1127 1128 1129 1130 1131	SO[825] SO[825] SO[826] SO[826] SO[828] SO[830] SO[831] SO[832] SO[833] SO[834] SO[835]	-321,5 -4245,5 -4225,5 -4279,5 -4296,5 -4313,5 -4330,5 -4347,5 -4364,5 -4381,5 -4415,5	62 348 202 62 338 202 62 338 202 62 338 202 62 338	14 14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65 65 65
1121 1122 1123 1124 1125 1127 1128 1129 1130	SO[825] SO[825] SO[826] SO[826] SO[828] SO[830] SO[831] SO[832] SO[833] SO[834]	-321,5 -2245,5 -4225,5 -4279,5 -4296,5 -4313,5 -4330,5 -4347,5 -4364,5 -4381,5 -4398,5	62 348 202 62 338 202 62 338 202 62 62	14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65 65 65
1121 1122 1124 1125 1127 1128 1129 1130 1131	SO[825] SO[825] SO[826] SO[826] SO[828] SO[830] SO[831] SO[832] SO[833] SO[834] SO[835]	-321,5 -4245,5 -4225,5 -4279,5 -4296,5 -4313,5 -4330,5 -4347,5 -4364,5 -4381,5 -4415,5	62 348 202 62 338 202 62 338 202 62 338 202 62 338	14 14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65 65 65
1121 1122 1124 1124 1127 1128 1129 1130 1131	SO[825] SO[825] SO[826] SO[826] SO[828] SO[830] SO[831] SO[831] SO[832] SO[834] SO[835] SO[836]	-3115 -2245 -4225 -4296.5 -4313.5 -4330.5 -4347.5 -4364.5 -4398.5 -4415.5 -4432.5	338 202 62 338 202 62 338 202 62 338 202 62 338 202	14 14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65 65 65 65
1121 1122 1124 1126 1127 1128 1129 1130 1131 1132 1133	SO[828] SO[828] SO[828] SO[828] SO[828] SO[830] SO[831] SO[832] SO[833] SO[834] SO[835] SO[837]	-3115 -2245 -4225 -4279.5 -4296.5 -4313.5 -4330.5 -4347.5 -4364.5 -4381.5 -4415.5 -4442.5 -4449.5	62 338 202 62 338 202 62 338 202 62 338 202 62 62	14 14 14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65 65 65 65 65
1121 1122 1124 1127 1128 1129 1130 1131 1132 1133 1134	SO[824] SO[825] SO[826] SO[826] SO[827] SO[828] SO[830] SO[831] SO[832] SO[833] SO[834] SO[835] SO[837] SO[838]	-241,5 -245,5 -4279,5 -4296,5 -4313,5 -4330,5 -4347,5 -4364,5 -4381,5 -4415,5 -4442,5 -4449,5 -4466,5	62 338 202 62 338 202 62 338 202 62 338 202 62 338 202 62 338	14 14 14 14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65 65 65 65 65 65
1121 1122 1124 1127 1127 1128 1129 1130 1131 1132 1133 1134 1135	SO[824] SO[825] SO[825] SO[826] SO[828] SO[828] SO[830] SO[831] SO[832] SO[833] SO[834] SO[835] SO[836] SO[837] SO[838]	-431,5 4245,5 -4279,5 -4296,5 -4313,5 -4330,5 -4347,5 -4381,5 -4398,5 -4415,5 -4449,5 -4466,5 -4483,5	202 62 348 202 62 338 202 62 338 202 62 338 202 62 338 202	14 14 14 14 14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65 65 65 65 65 65 6
1121 1122 1124 1127 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136	SO[824] SO[825] SO[825] SO[826] SO[828] SO[828] SO[830] SO[831] SO[832] SO[833] SO[835] SO[836] SO[837] SO[838] SO[839] SO[840]	-241.5 -224.5 -4279.5 -4296.5 -4313.5 -4330.5 -4347.5 -4381.5 -4398.5 -4415.5 -4449.5 -4466.5 -4483.5 -4500.5	62 338 202 62 338 202 62 338 202 62 338 202 62 338 202 62 62 63 64 65 66 66 67 68 68 68 68 68 68 68 68 68 68	14 14 14 14 14 14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65 65 65 65 65 65 6
1121 1122 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137	SO[824] SO[825] SO[825] SO[826] SO[828] SO[828] SO[828] SO[830] SO[831] SO[832] SO[833] SO[835] SO[837] SO[838] SO[839] SO[840] SO[841]	-431.5 -4245.5 -4279.5 -4296.5 -4313.5 -4330.5 -4347.5 -4364.5 -4381.5 -4432.5 -4449.5 -4466.5 -4483.5 -4500.5 -4517.5	62 338 202 62 338 32 62 62 62 338 202 62 62 62 62 62 62 62 62 62 62 62 62 62	14 14 14 14 14 14 14 14 14 14 14 14 14 1	65 65 65 65 65 65 65 65 65 65 65 65 65 6

PAD No.	PAD Name	X-axis	Y-axis	W	Н
1141	SO[845]	-4585.5	202	14	65
1142	SO[846]	-4602.5	62	14	65
1143	SO[847]	-4619.5	338	14	65
1144		-4636.5	202	14	65
1145	SO[848]	-4653.5	62	14	65
	SO[849]				
1146	SO[850]	-4670.5	338	14	65
1147	SO[851]	-4687.5	202	14	65
1148	SO[852]	-4704.5	62	14	65
1149	SO[853]	-4721.5	338	14	65
1150	SO[854]	-4738.5	202	14	65
1151	SO[855]	-4755.5	62	14	185
1152	SO[856]	-4772.5	338	14) 6t/
1153	SO[857]	-4789.5	202	$\nearrow / / /$	/^ \ \
1154	SO[858]	-4806.5	62	14	65
1155	SO[859]	-4823.5	368	14	65
1156	SO[860]	-4840.5	202	14	65
1157	SO[861]	-4857.5	1651	14	65
1158	SO[862]	-4874.5	3/3/8	14	65
1159	SO[863]	489(.5	203	14	65
1160	SO[864	-4908.5	62	14	65
1161	SO[885]	-492	338	14	65
1162	SO[866]	-4942/5	202	/A	65
1168	80[867]	¥4959.5		14	65
1164	S O[868]	-4976.5	338	V)A	65
165	SQ[369]	-4993.5	1/506	14	65
11/68	SO[870]	-5010.5	62	14	65
1167	SO[871]	-5027.3	338	14	65
1/168	SO[872]	-5044.3	202	14	65
1169	SO[873]	-5061.5	62	14	65
1170	SO[874]	-5078.5	338	14	65
1171	\$0[875]	-5095.5	202	14	65
772	SO[876]	-5112.5	62	14	65
1173	SO[877]	-5129.5	338	14	65
1174	SO[878]	-5146.5	202	14	65
1175	SO[879]	-5163.5	62	14	65
1176	SO[880]	-5180.5	338	14	65
1177	SO[881]	-5197.5	202	14	65
1178	SO[882]	-5214.5	62	14	65
1179	SO[883]	-5231.5	338	14	65
1180	SO[884]	-5248.5	202	14	65
1181	SO[885]	-5265.5	62	14	65
1182	SO[886]	-5282.5	338	14	65
1183	SO[887]	-5299.5	202	14	65
1184	SO[888]	-5316.5	62	14	65
1185	SO[889]	-5333.5	338	14	65
1186	SO[890]	-5350.5	202	14	65
1187	SO[891]	-5367.5	62	14	65
1188	SO[892]	-5384.5	338	14	65
1189	SO[893]	-5401.5	202	14	65
1190	SO[894]	-5418.5	62	14	65
1191	SO[895]	-5435.5	338	14	65
1192	SO[896]	-5452.5	202	14	65
1193	SO[897]	-5469.5	62	14	65
1194	SO[898]	-5486.5	338	14	65
1195	SO[899]	-5503.5	202	14	65
1196	SO[900]	-5520.5	62	14	65
1197	SO[901]	-5537.5	338	14	65
1198	SO[902]	-5554.5	202	14	65
1199	SO[903]	-5571.5	62	14	65
1200	SO[904]	-5588.5	338	14	65
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1201 SO[906] -5605.5 202 14 65	PAD No.	PAD Name	X-axis	Y-axis	w	Н
1202 SO(906) -5622.5 62						
1203						
1204 SO[908] -5656.5 202						
1205						
1206 SO[910] -5690.5 338						
1207 SO[911] -5707.5 202						
1208 SO(912 -5724.5 62						
1210						
1210 SO(914) -5758.5 202 14 65 1211 SO(915) -5775.5 62 14 65 1212 SO(916) -5792.5 338 14 65 1213 SO(917) -5809.5 202 14 65 1214 SO(917) -5809.5 202 14 65 1215 SO(919) -5843.5 338 14 65 1216 SO(920) -5860.5 202 14 65 1217 SO(921) -5877.5 62 14 65 1218 SO(922) -5894.5 338 14 65 1219 SO(921) -5894.5 338 14 65 1219 SO(921) -5945.5 338 14 65 1220 SO(924) -5928.5 62 14 65 1221 SO(925) -5945.5 338 14 65 1222 SO(926) -5962.5 202 14 65 1223 SO(927) -5979.5 62 14 65 1224 SO(928) -5996.5 338 14 65 1225 SO(929) -6013.5 202 14 65 1226 SO(930) -6030.5 62 14 65 1227 SO(931) -6047.5 338 14 65 1228 SO(932) -6044.5 202 14 65 1229 SO(931) -6047.5 338 14 65 1220 SO(931) -6081.5 62 14 65 1221 SO(931) -6047.5 338 14 65 1222 SO(930) -6030.5 62 14 65 1223 SO(933) -6081.5 62 14 65 1224 SO(938) -6166.5 202 14 65 1231 SO(937) -6149.5 338 14 65 1232 SO(938) -6166.5 202 14 65 1233 SO(937) -6149.5 338 14 65 1234 SO(938) -6166.5 202 14 65 1235 SO(941) -6200.5 88 14 65 1241 SO(948) -6336.5 62 14 65 1242 SO(941) -6200.5 88 14 65 1243 SO(941) -6335.5 62 14 65 1244 SO(948) -6336.5 62 14 65 1245 SO(941) -6353.5 338 14 65 1246 SO(951) -6485.5 62 14 65 1247 SO(951) -6485.5 62 14 65 1248 SO(952) -6404.5 338 14 65 1249 SO(953) -6485.5 62 14 65 1249 SO(953) -6485.5 62 14 65 1250 SO(951) -6455.5 338 14 65 1251 SO(951) -6455.5 338 14 65 1252 SO(956) -6455.5 338 14 65 1253 SO(957) -6455.5 338 14 65 1254 SO(958) -6525.5 202 14	1208	SO[912]	-5724.5	62	14	65
1211 SO[915] -5775.5 62	1209	SO[913]	-5741.5	338	14	65
1212 SO(916) -5792.5 338 14 65 1213 SO(917) -5809.5 202 14 65 1214 SO(918) -5826.5 62 14 65 1215 SO(919) -5843.5 338 14 65 1216 SO(920) -5860.5 202 14 65 1217 SO(921) -5877.5 62 14 65 1218 SO(922) -5894.5 338 14 65 1219 SO(923) -5911.5 202 14 65 1220 SO(924) -5928.5 62 14 65 1221 SO(925) -5945.5 338 14 65 1222 SO(926) -5962.5 202 14 65 1223 SO(927) -5979.5 62 14 65 1224 SO(928) -5996.5 338 14 65 1225 SO(929) -6013.5 202 14 65 1226 SO(930) -6030.5 62 14 65 1227 SO(931) -6047.5 338 14 65 1228 SO(932) -6064.5 202 14 65 1229 SO(933) -6081.5 62 14 65 1229 SO(933) -6081.5 62 14 65 1229 SO(933) -6081.5 62 14 65 1220 SO(934) -6098.5 338 14 65 1221 SO(937) -6149.5 338 14 65 1223 SO(937) -6149.5 338 14 65 1234 SO(938) -6149.5 338 14 65 1235 SO(939) -6183.5 62 14 65 1236 SO(940) -6200.5 38 14 65 1237 SO(941) -62176 30 1238 SO(942) -6336.5 62 14 65 1240 SO(940) -6200.5 38 14 65 1241 SO(948) -6336.5 62 14 65 1242 SO(940) -6335.5 62 14 65 1243 SO(931) -6419.5 338 14 65 1244 SO(948) -6336.5 62 14 65 1249 SO(951) -6370.5 202 14 65 1240 SO(940) -6335.5 62 14 65 1241 SO(951) -6335.5 62 14 65 1242 SO(951) -6421.5 202 14 65 1243 SO(951) -6435.5 62 14 65 1244 SO(958) -6455.5 338 14 65 1255 SO(950) -6472.5 202 14 65 1256 SO(950) -6472.5 202 14 65 1257 SO(951) -6455.5 338 14 65 1258 SO(950) -6535.5 338 14 65 1259 SO(961) -6574.5 202 14 65 1259 SO(961) -6575.5 62 14 65 1259 SO(961) -6575.5 502 14 65 1259	1210	SO[914]	-5758.5	202	14	65
1213 SO(917) -5809.5 202 14 65 1214 SO(918) -5826.5 62 14 65 1215 SO(919) -5843.5 338 14 65 1216 SO(920) -5860.5 202 14 65 1217 SO(921) -5877.5 62 14 65 1218 SO(922) -5894.5 338 14 65 1219 SO(923) -5911.5 202 14 65 1220 SO(924) -5928.5 62 14 65 1221 SO(925) -5945.5 338 14 65 1222 SO(926) -5962.5 202 14 65 1223 SO(927) -5979.5 62 14 65 1224 SO(928) -5996.5 338 14 65 1225 SO(929) -6013.5 202 14 65 1226 SO(930) -6030.5 62 14 65 1227 SO(931) -6047.5 338 14 65 1228 SO(932) -6064.5 202 14 65 1229 SO(933) -6081.5 62 14 65 1220 SO(934) -6098.5 338 14 65 1221 SO(938) -6115.5 202 14 65 1223 SO(931) -6115.5 202 14 65 1224 SO(938) -6115.5 202 14 65 1223 SO(938) -6115.5 202 14 65 1224 SO(938) -6115.5 202 14 65 1225 SO(939) -6132.5 62 14 65 1226 SO(930) -632.5 62 14 65 1227 SO(931) -6149.5 338 14 65 1238 SO(942) -630.5 38 14 65 1239 SO(943) -6318.5 62 14 65 1240 SO(940) -6200.5 48 14 65 1241 SO(948) -6315.5 62 14 65 1242 SO(940) -6207.5 38 14 65 1243 SO(941) -6237.5 62 14 65 1244 SO(948) -6336.5 62 14 65 1245 SO(950) -6370.5 202 14 65 1246 SO(950) -6370.5 202 14 65 1247 SO(951) -6485.5 338 14 65 1248 SO(952) -6401.5 338 14 65 1251 SO(951) -6455.5 338 14 65 1252 SO(950) -6523.5 338 14 65 1253 SO(950) -6523.5 338 14 65 1254 SO(958) -6525.5 338 14 65 1255 SO(950) -6575.5 338 14 65 1257 SO(961) -6557.5 338 14 65 1258 SO(962) -6574.5 202 14 65 1259 SO(963) -6591.5 62 14 65 1259 SO(963) -6591.5 62 14	1211	SO[915]	-5775.5	62	14	65
1214 SO[918] -5826.5 62 14 65 1215 SO[919] -5843.5 338 14 65 1216 SO[920] -5860.5 202 14 65 1217 SO[921] -5877.5 62 14 65 1218 SO[922] -5894.5 338 14 65 1219 SO[923] -5911.5 202 14 65 1220 SO[924] -5928.5 62 14 65 1220 SO[924] -5928.5 62 14 65 1221 SO[925] -5945.5 338 14 65 1222 SO[926] -5962.5 202 14 65 1223 SO[927] -5979.5 62 14 65 1224 SO[928] -5996.5 338 14 65 1225 SO[920] -603.5 62 14 65 1226 SO[930] -6030.5 62 14 65 1227 SO[931] -6047.5 338 14 65 1228 SO[932] -6064.5 202 14 65 1229 SO[933] -6081.5 62 14 65 1230 SO[934] -6098.5 338 14 65 1231 SO[937] -6149.5 338 14 65 1232 SO[936] -6152.5 62 14 65 1233 SO[937] -6149.5 338 14 65 1234 SO[938] -6166.5 202 14 65 1235 SO[939] -6183.5 62 14 65 1236 SO[940] -620.5 388 14 65 1237 SO[941] -6217 622 64 1248 SO[942] 62345 62 63 1249 SO[948] -6353.5 328 14 65 1240 SO[948] -6336.5 62 14 65 1241 SO[948] -6336.5 62 14 65 1242 SO[948] -6335.5 62 14 65 1244 SO[948] -6353.5 338 14 65 1246 SO[950] -6370.5 202 14 65 1247 SO[951] -6387.5 62 14 65 1248 SO[955] -6455.5 338 14 65 1251 SO[951] -6455.5 338 14 65 1252 SO[956] -6472.5 202 14 65 1253 SO[957] -6485.5 338 14 65 1254 SO[958] -6656.5 338 14 65 1255 SO[959] -6557.5 338 14 65 1257 SO[961] -6557.5 338 14 65 1258 SO[962] -6545.5 62 14 65 1259 SO[963] -6591.5 62 14 65 1259 SO[9	1212	SO[916]	-5792.5	338	14	65
1215 SO[919] -5843.5 338 14 65 1216 SO[920] -5860.5 202 14 65 1217 SO[921] -5877.5 62 14 65 1218 SO[922] -5894.5 338 14 65 1219 SO[923] -5911.5 202 14 65 1220 SO[924] -5928.5 62 14 65 1221 SO[925] -5945.5 338 14 65 1222 SO[926] -5962.5 202 14 65 1223 SO[927] -5979.5 62 14 65 1224 SO[928] -5996.5 338 14 65 1225 SO[929] -6013.5 202 14 65 1226 SO[930] -6030.5 62 14 65 1227 SO[931] -6047.5 338 14 65 1228 SO[932] -6064.5 202 14 65 1229 SO[933] -6081.5 62 14 65 1230 SO[934] -6098.5 338 14 65 1231 SO[935] -6115.5 202 14 65 1232 SO[936] -6132.5 62 14 65 1233 SO[937] -6149.5 338 14 65 1234 SO[938] -6166.5 202 14 65 1235 SO[939] -6183.5 62 14 65 1236 SO[940] -6200.5 388 14 65 1237 SO[941] -6217 -6247 -6247 -6247 1238 SO[943] -6353.5 62 14 65 1244 SO[948] -6365.5 202 14 65 1246 SO[940] -6353.5 338 14 65 1247 SO[941] -6387.5 62 14 65 1248 SO[942] -6353.5 338 14 65 1249 SO[950] -6370.5 202 14 65 1240 SO[950] -6370.5 202 14 65 1241 SO[951] -6387.5 62 14 65 1242 SO[950] -6370.5 202 14 65 1243 SO[950] -6370.5 202 14 65 1244 SO[950] -6370.5 202 14 65 1246 SO[950] -6370.5 202 14 65 1251 SO[951] -6485.5 338 14 65 1252 SO[950] -6472.5 202 14 65 1253 SO[951] -6485.5 338 14 65 1254 SO[950] -6570.5 338 14 65 1255 SO[950] -6570.5 338 14 65 1256 SO[950] -6570.5 338 14 65 1257 SO[961] -6570.5 338 14 65 1258 SO[962] -6574.5 202 14 65 1259 SO[963] -6591.5 62 14 65 1259 SO[963] -6591.5 62 14 65 1259 SO[963] -6591.5	1213	SO[917]	-5809.5	202	14	65
1216	1214	SO[918]	-5826.5	62	14	65
1217 SO[921] -5877.5 62	1215	SO[919]	-5843.5	338	14	65
1218	1216	SO[920]	-5860.5	202	14	65
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	1259	SO[963]	-6591.5	62	14	65

PAD No.	PAD Name	X-axis	Y-axis	W	Н
1261	SO[965]	-6625.5	202	14	65
1262	SO[966]	-6642.5	62	14	65
1263	SO[967]	-6659.5	338	14	65
1264	SO[968]	-6676.5	202	14	65
1265	SO[969]	-6693.5	62	14	65
1266	SO[970]	-6710.5	338	14	65
1267	SO[971]	-6727.5	202	14	65
1268	SO[972]	-6744.5	62	14	65
1269	SO[972]	-6761.5	338	14	65
1270	SO[973]	-6778.5	202	14	65
1270	SO[974]	-6795.5	62	14	05
1272	SO[976]	-6812.5	338	14	126
1273	SO[977]	-6829.5	202	\[\frac{14}{4} \righta	
1274	SO[978]	-6846.5	62	12/	65
1274	SO[978]	-6863.5	35%	14	65
1275	SO[979] SO[980]	-6880.5	202	14	65
1277	SO[980]	-6897.5	Red	14	65
		//	11 >	14	65
1278	SO[982]	-6914.5	378		
1279	SO[983]	6931.3	203	14	65
1280	SO[984	-8948.5	62	14	65
1281	SO[682]	-696	338	14	65
1282	SO[988]	-6982/5	202	14	65
1282	80[987]	¥6999.5	$\binom{2}{2}$	14	65
1284	S O[988]	-7016.5	338	JA .	65
1285	S0[989]	-7033.5	1 / 505	14	65
1288	SO[990]	-7050.5	62	14	65
1287	SO[991]	-7067.3	B38	14	65
1288	SO[992]	7084.3	202	14	65
1289	SO[993]	-7101.5	62	14	65
1290	SO[994]	-7118.5	338	14	65
1291	SQ[995]	-7135.5	202	14	65
1292	SO[996]	-7152.5	62	14	65
1293	SO[997]	-7169.5	338	14	65
1294	SO[998]	-7186.5	202	14	65
1295	SO[999]	-7203.5	62	14	65
1296	SO[1000]	-7220.5	338	14	65
1297	SO[1001]	-7237.5	202	14	65
1298	SO[1002]	-7254.5	62	14	65
1299	SO[1003]	-7271.5	338	14	65
1300	SO[1004]	-7288.5	202	14	65
1301	SO[1005]	-7305.5	62	14	65
1302	SO[1006]	-7322.5	338	14	65
1303	SO[1007]	-7339.5	202	14	65
1304	SO[1008]	-7356.5	62	14	65
1305	SO[1009]	-7373.5	338	14	65
1306	SO[1010]	-7390.5	202	14	65
1307	SO[1011]	-7407.5	62	14	65
1308	SO[1012]	-7424.5	338	14	65
1309	SO[1013]	-7441.5	202	14	65
1310	SO[1014]	-7458.5	62	14	65
1311	SO[1015]	-7475.5	338	14	65
1312	SO[1016]	-7492.5	202	14	65
1313	SO[1017]	-7509.5	62	14	65
1314	SO[1018]	-7526.5	338	14	65
1315	SO[1019]	-7543.5	202	14	65
1316	SO[1020]	-7560.5	62	14	65
1317	SO[1021]	-7577.5	338	14	65
1318	SO[1022]	-7594.5	202	14	65
1319	SO[1022]	-7611.5	62	14	65
1320	SO[1024]	-7628.5	338	14	65
.520	50[1027]	,020.5	550		L 35

PAD No.	PAD Name	X-axis	Y-axis	W	Н
1321	SO[1025]	-7645.5	202	14	65
1322	SO[1026]	-7662.5	62	14	65
1323	SO[1027]	-7679.5	338	14	65
1324	SO[1028]	-7696.5	202	14	65
1325		-7090.5	62	14	65
	SO[1029]			14	
1326	SO[1030]	-7730.5	338		65
1327	SO[1031]	-7747.5	202	14	65
1328	SO[1032]	-7764.5	62	14	65
1329	SO[1033]	-7781.5	338	14	65
1330	SO[1034]	-7798.5	202	14	65
1331	SO[1035]	-7815.5	62	14	65
1332	SO[1036]	-7832.5	338	14	65
1333	SO[1037]	-7849.5	202	14	65
1334	SO[1038]	-7866.5	62	14	65
1335	SO[1039]	-7883.5	338	14	65
1336	SO[1040]	-7900.5	202	14	65
1337	SO[1041]	-7917.5	62	14	65
1338	SO[1042]	-7934.5	338	14	65
1339	SO[1043]	-7951.5	202	14	65
1340	SO[1044]	-7968.5	62	14	65
1341	SO[1045]	-7985.5	338	14	65
1342	SO[1046]	-8002.5	202	14	65
1343	SO[1047]	-8019.5	62	14	65
1344	SO[1048]	-8036.5	338	14	65
1345	SO[1049]	-8053.5	202	14	65
1346	SO[1050]	-8070.5	62	14	65
1347	SO[1051]	-8087.5	338	14	65
1348	SO[1052]	-8104.5	202	14	65
1349	SO[1053]	-8121.5	62	14	65
1350	SO[1054]	-8138.5	338	14	65
1351	SO[1055]	-8155.5	202	14)65
1352	SO[1056]	-8172.5	62	14	65
1353	SO[1057]	-8189.5	338	14	65
1354	SO[1058]	-8206.5	202	\\Y4	65
1355	SO[1059]	-8223.5	62	14	65
1356	SO[1060]	-8240.5	338	14	65
1357	SO[1061]	-8257	202	14	65
1358	SO[1062]	-82745	6	14	105
1359	SO[1063]	-829),5	538	у-	63
1360	SO[1064)	₂ 8398.5	202	14	65
1361	SQ[1065]	-8325.5	62	\ \\ _\	65
1362	SQ[1066]	-83/2.5	338	- Jan 1	65
1363	SO[106X]	-8359.5	202	114	65
1364	SO[1068]	-8376.5	62	14	65
1365	SQ1069]	-8393.5	338	14	65
$\overline{}$	•				
1306	SO[1070] SO[1071]	-8410.5	202	14	65
1367	50110711	-8427.5	62	14	65
		0444 =	220	1.4	£ 5
1368	SO[1072]	-8444.5	338	14	65
1368 1369	SO[1072] SO[1073]	-8461.5	202	14	65
1368 1369 1370	SO[1072] SO[1073] SO[1074]	-8461.5 -8478.5	202 62	14 14	65 65
1368 1369 1370 1371	SO[1072] SO[1073] SO[1074] SO[1075]	-8461.5 -8478.5 -8495.5	202 62 338	14 14 14	65 65 65
1368 1369 1370 1371 1372	SO[1072] SO[1073] SO[1074] SO[1075] SO[1076]	-8461.5 -8478.5 -8495.5 -8512.5	202 62 338 202	14 14 14 14	65 65 65
1368 1369 1370 1371 1372 1373	SO[1072] SO[1073] SO[1074] SO[1075]	-8461.5 -8478.5 -8495.5 -8512.5 -8529.5	202 62 338 202 62	14 14 14 14 14	65 65 65 65
1368 1369 1370 1371 1372	SO[1072] SO[1073] SO[1074] SO[1075] SO[1076]	-8461.5 -8478.5 -8495.5 -8512.5	202 62 338 202	14 14 14 14	65 65 65 65
1368 1369 1370 1371 1372 1373	SO[1072] SO[1073] SO[1074] SO[1075] SO[1076] SO[1077]	-8461.5 -8478.5 -8495.5 -8512.5 -8529.5	202 62 338 202 62	14 14 14 14 14	65 65 65 65
1368 1369 1370 1371 1372 1373 1374	SO[1072] SO[1073] SO[1074] SO[1075] SO[1076] SO[1077] SO[1078]	-8461.5 -8478.5 -8495.5 -8512.5 -8529.5 -8546.5	202 62 338 202 62 338	14 14 14 14 14 14	65 65 65 65 65 65
1368 1369 1370 1371 1372 1373 1374 1375	SO[1072] SO[1073] SO[1074] SO[1075] SO[1076] SO[1077] SO[1078]	-8461.5 -8478.5 -8495.5 -8512.5 -8529.5 -8546.5 -8563.5	202 62 338 202 62 338 202	14 14 14 14 14 14 14	65 65 65 65 65 65 65
1368 1369 1370 1371 1372 1373 1374 1375 1376	SO[1072] SO[1073] SO[1074] SO[1075] SO[1076] SO[1077] SO[1078] SO[1079] SO[1080]	-8461.5 -8478.5 -8495.5 -8512.5 -8529.5 -8546.5 -8563.5 -8580.5	202 62 338 202 62 338 202 62	14 14 14 14 14 14 14	65 65 65 65 65 65 65
1368 1369 1370 1371 1372 1373 1374 1375 1376	SO[1072] SO[1073] SO[1074] SO[1075] SO[1076] SO[1077] SO[1078] SO[1079] SO[1080]	-8461.5 -8478.5 -8495.5 -8512.5 -8529.5 -8546.5 -8563.5 -8580.5	202 62 338 202 62 338 202 62 338	14 14 14 14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65
1368 1369 1370 1371 1372 1373 1374 1375 1376 1377	SO[1072] SO[1073] SO[1074] SO[1075] SO[1076] SO[1077] SO[1078] SO[1079] SO[1080] SO[1081]	-8461.5 -8478.5 -8495.5 -8512.5 -8529.5 -8546.5 -8563.5 -8580.5 -8597.5 -8614.5	202 62 338 202 62 338 202 62 338 202	14 14 14 14 14 14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65 65

PAD No.	PAD Name	X-axis	Y-axis	W	Н
1381	SO[1085]	-8665.5	202	14	65
1382	SO[1086]	-8682.5	62	14	65
1383	SO[1087]	-8699.5	338	14	65
1384	SO[1087]	-8716.5	202	14	65
1385	SO[1089]	-8733.5	62	14	65
				14	65
1386	SO[1090]	-8750.5	338		
1387	SO[1091]	-8767.5	202	14	65
1388	SO[1092]	-8784.5	62	14	65
1389	SO[1093]	-8801.5	338	14	65
1390	SO[1094]	-8818.5	202	14	65
1391	SO[1095]	-8835.5	62	14	85
1392	SO[1096]	-8852.5	338	14	63
1393	SO[1097]	-8869.5	202	$\nearrow / \swarrow /$	
1394	SO[1098]	-8886.5	62	14	65
1395	SO[1099]	-8903.5	368	14	65
1396	SO[1100]	-8920.5	202	14	65
1397	SO[1101]	-8937.5	11/	<u> </u>	65
1398	SO[1102]	-8954.5	33/8	14	65
1399	SO[1103]	89 N.3	203	14	65
1400	SO[1104]	-8988.5 -900 5 .5	62	14	65
1401	SO[1105]	\ \\ \\	338	14	65
1402	SO[1106]	-9022.5	202	V/ .	65
1402	S0[1107]	¥9039.5	(22)	14	65
1404	SO[1108]	-9056.5	338	YAY	65
1705	SO(1)(09]	-9073.5	1 505	14	65
1308	SO[1110]	-9090.5	62	14	65
1407	SO[1111]	9107.3	338	14	65
1,408	SO[1112]	91243	202	14	65
1409	8O[1113]	-9141.5	62	14	65
1410	\$0[1114]	-9158.5	338	14	65
141)	SQN115]	-9175.5	202	14	65
12/12	SO[1116]	-9192.5	62	14	65
1413	SØ[1117]	-9209.5	338	14	65
1414	SO[1118]	-9226.5	202	14	65
415	SO[1119]	-9243.5	62	14	65
1416	SO[1120]	-9260.5	338	14	65
1417	SO[1121]	-9277.5	202	14	65
1418	SO[1122]	-9294.5	62	14	65
1419	SO[1123]	-9311.5	338	14	65
1420	SO[1124]	-9328.5	202	14	65
1421	SO[1125]	-9345.5	62	14	65
1422	SO[1126]	-9362.5	338	14	65
1423	SO[1127]	-9379.5	202	14	65
1424	SO[1128]	-9396.5	62	14	65
1425	SO[1129]	-9413.5	338	14	65
1426	SO[1130]	-9430.5	202	14	65
1427	SO[1131]	-9447.5	62	14	65
1428	SO[1132]	-9464.5	338	14	65
1429	SO[1133]	-9481.5	202	14	65
1430	SO[1134]	-9498.5	62	14	65
1431	SO[1135]	-9515.5	338	14	65
1432	SO[1136]	-9532.5	202	14	65
1433	SO[1137]	-9549.5	62	14	65
1434	SO[1138]	-9566.5	338	14	65
1435	SO[1139]	-9583.5	202	14	65
1436	SO[1140]	-9600.5	62	14	65
1437			338	14	65
	SO[1141]	-9617.5			
1438	SO[1142]	-9617.5 -9634.5	202	14	65
1438 1439 1440					65 65

PAD No.	PAD Name	X-axis	Y-axis	W	Н
1441	SO[1145]	-9685.5	202	14	65
1442	SO[1146]	-9702.5	62	14	65
1443	SO[1147]	-9719.5	338	14	65
1444	SO[1148]	-9736.5	202	14	65
1445		-9753.5	62	14	65
	SO[1149]				
1446	SO[1150]	-9770.5	338	14	65
1447	SO[1151]	-9787.5	202	14	65
1448	SO[1152]	-9804.5	62	14	65
1449	SO[1153]	-9821.5	338	14	65
1450	SO[1154]	-9838.5	202	14	65
1451	SO[1155]	-9855.5	62	14	65
1452	SO[1156]	-9872.5	338	14	65
1453	SO[1157]	-9889.5	202	14	65
1454	SO[1158]	-9906.5	62	14	65
1455	SO[1159]	-9923.5	338	14	65
1456	SO[1160]	-9940.5	202	14	65
1457	SO[1161]	-9957.5	62	14	65
1458	SO[1162]	-9974.5	338	14	65
1459	SO[1163]	-9991.5	202	14	65
1460	SO[1164]	-10008.5	62	14	65
1461	SO[1165]	-10025.5	338	14	65
1462	SO[1166]	-10042.5	202	14	65
1463	SO[1167]	-10059.5	62	14	65
1464	SO[1168]	-10076.5	338	14	65
1465	SO[1169]	-10093.5	202	14	65
1466	SO[1170]	-10110.5	62	14	65
1467	SO[1171]	-10127.5	338	14	65
1468	SO[1172]	-10144.5	202	14	65
1469	SO[1173]	-10161.5	62	14	65
1470	SO[1174]	-10178.5	338	14	65
1471	SO[1175]	-10195.5	202	14) 65
1472	SO[1176]	-10212.5	62	/4	6
1473	SO[1177]	-10229.5	338	14/	65
1474	SO[1178]	-10246.5	202	\\\d	√ ₆₅
1475	SO[1179]	-10263.5	12	14/	65 🔨
1476	SO[1180]	-10280.5	338	14	65
1477	SO[1181]	-10297.8	11205	14	65
1478		17	11 /41		C / ' \
1479	SO[1182]	-103 45	1 62	14	65
	SO[1182]	-103 45	62	14	65
	SO[1183]	-10331.5	338	14	63
1480	SO[1183] SO[1183]	-10331\5 10248.5	338	14	65
1480 1481	SO[1183] SO[1184]	-10361.5 10248.5 10365.5	338 202 62	14 14 14	65 65
1480 1481 1482	SO[1183] SO[11834 SO[1185] SO[1186]	-10361.5 10348.5 10365.5 -10382.5	538 202 62 338	14 14 14	65
1480 1481	SO[1183] SO[1184]	-10361.5 10248.5 10365.5	338 202 62	14 14 14	65 65
1480 1481 1482	SO[1183] SO[11834 SO[1185] SO[1186]	-10361.5 10348.5 10365.5 -10382.5	538 202 62 338	14 14 14 14	65 65 65
1480 1481 1482 1483	SO[1183] SO[1185] SO[1185] SO[185]	-103315 10348.5 10365.5 -10382.5 -10399.5	538 202 62 338 203	14 14 14 14	65 65 65 65
1480 1481 1482 1483	SO[1183] SO[1185] SO[1185] SO[1186] SO[1188]	-10348.5 10348.5 10365.5 -10382.5 -10416.5	538 202 62 338 203 62	14 14 14 14 14	65 65 65 65 65
1480 1481 1482 1483 484 485	SO[1183] SO[1183] SO[1185] SO[1188] SO[1188]	10365.5 10365.5 10365.5 -10399.5 -10416.5 -10433.5	538 202 62 338 202 62 338	14 14 14 14 14	65 65 65 65 65 65
1480 1481 1482 1483 1484 1485	SO[1183] SO[1183] SO[1183] SO[1185] SO[186] SO[188] SO[1188] SO[1190] SO[1191]	1048.5 10365.5 10365.5 10382.5 -10399.5 -10416.5 -10450.5 -10467.5	338 202 62 339 208 62 338 202	14 14 14 14 14 14	65 65 65 65 65 65
1480 1481 1482 1483 1484 1484 1486 1487	SO[1183] SO[1183] SO[1183] SO[1185] SO[1186] SO[1188] SO[1189] SO[1190] SO[1191]	1048.5 10365.5 10365.5 10365.5 10382.5 10416.5 10433.5 10450.5 10467.5 10484.5	338 202 62 339 202 62 338 202 62 338	14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65
1480 1481 1482 1483 1484 1485 1486 1487 1488	SO[1183] SO[1183] SO[1183] SO[1185] SO[1185] SO[1187] SO[1188] SO[1190] SO[1191] SO[1192] SO[1193]	1048.5 10365.5 10365.5 10382.5 10399.5 10416.5 10450.5 10467.5 10484.5 10501.5	338 202 62 338 202 62 338 202 62 338 202	14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65 65 65
1480 1481 1482 1482 1484 1484 1485 1486 1487 1488 1489	SO[1183] SO[1183] SO[1183] SO[1185] SO[1185] SO[1188] SO[1189] SO[1190] SO[1191] SO[1192] SO[1193]	1048.5 10365.5 10365.5 10382.5 10399.5 10416.5 10450.5 10467.5 10484.5 10501.5	338 202 62 338 202 62 338 202 62 338 202 62	14 14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65 65 65 65
1480 1481 1482 1483 1484 1486 1487 1488 1489 1490 1491	SO[1183] SO[1183] SO[1183] SO[1185] SO[1185] SO[1188] SO[1188] SO[1190] SO[1191] SO[1192] SO[1193] SO[1194]	1048.5 10365.5 10365.5 10382.5 10399.5 10416.5 10450.5 10467.5 10501.5 10518.5	338 202 62 338 202 62 338 202 62 338 202 62 338	14 14 14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65 65 65 65
1480 1481 1482 1483 1484 1486 1487 1488 1489 1490 1491	SO[1183] SO[1183] SO[1183] SO[1185] SO[1186] SO[1188] SO[1188] SO[1190] SO[1191] SO[1192] SO[1193] SO[1194] SO[1195]	1048.5 10365.5 10365.5 10382.5 10482.5 10416.5 10450.5 10467.5 10501.5 10518.5 10533.5	338 202 62 338 202 62 338 202 62 338 202 62	14 14 14 14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65 65 65 65 65
1480 1481 1482 1483 1484 1486 1487 1488 1489 1490 1491	SO[1183] SO[1183] SO[1183] SO[1185] SO[1185] SO[1188] SO[1188] SO[1190] SO[1191] SO[1192] SO[1193] SO[1194]	1048.5 10365.5 10365.5 10382.5 10399.5 10416.5 10450.5 10467.5 10501.5 10518.5	338 202 62 338 202 62 338 202 62 338 202 62 338	14 14 14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65 65 65 65
1480 1481 1482 1483 1484 1486 1487 1488 1489 1490 1491	SO[1183] SO[1183] SO[1183] SO[1185] SO[1186] SO[1188] SO[1188] SO[1190] SO[1191] SO[1192] SO[1193] SO[1194] SO[1195]	1048.5 10365.5 10365.5 10382.5 10482.5 10416.5 10450.5 10467.5 10501.5 10518.5 10533.5	338 202 62 338 202 62 338 202 62 338 202 62 338 202	14 14 14 14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65 65 65 65 65
1480 1481 1482 1483 1484 1485 1486 1487 1488 1489 1490 1491 1492 1493	SO[1183] SO[1183] SO[1183] SO[1185] SO[1186] SO[1188] SO[1190] SO[1191] SO[1192] SO[1193] SO[1194] SO[1195] SO[1196]	1048.5 10365.5 10365.5 10365.5 10382.5 10416.5 10440.5 10467.5 10501.5 10518.5 1052.5 1052.5	338 202 62 338 202 62 338 202 62 338 202 62 338 202 62	14 14 14 14 14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65 65 65 65 65 65 6
1480 1481 1482 1482 1483 1484 1485 1486 1487 1488 1489 1490 1491 1492 1493 1494	SO[1183] SO[1183] SO[1185] SO[1185] SO[1186] SO[1188] SO[1190] SO[1191] SO[1192] SO[1193] SO[1194] SO[1195] SO[1196] SO[1197]	1048.5 10365.5 10365.5 10365.5 10382.5 10416.5 10416.5 10450.5 10467.5 10501.5 10518.5 1052.5 10569.5 10586.5	338 202 62 338 202 62 338 202 62 338 202 62 338 202 62 338	14 14 14 14 14 14 14 14 14 14 14 14 14	65 65 65 65 65 65 65 65 65 65 65 65 65 6
1480 1481 1482 1482 1484 1485 1486 1487 1488 1489 1490 1491 1492 1493 1494 1495	SO[1183] SO[1183] SO[1183] SO[1185] SO[1186] SO[1188] SO[1190] SO[1191] SO[1191] SO[1192] SO[1194] SO[1195] SO[1196] SO[1197] SO[1198]	1048.5 10365.5 10365.5 10365.5 10482.5 10416.5 10416.5 10433.5 10467.5 10501.5 10518.5 10552.5 110569.5 110586.5 11063.5	338 202 62 338 202 62 338 202 62 338 202 62 338 202 62 338 202	14 14 14 14 14 14 14 14 14 14 14 14 14 1	65 65 65 65 65 65 65 65 65 65 65 65 65 6
1480 1481 1482 1482 1484 1485 1486 1487 1488 1489 1490 1491 1492 1493 1494 1495 1496	SO[1183] SO[1183] SO[1183] SO[1185] SO[1186] SO[1188] SO[1190] SO[1190] SO[1191] SO[1192] SO[1193] SO[1194] SO[1195] SO[1196] SO[1197] SO[1198] SO[1199] SO[1200] SHIELDING[51]	1048.5 10365.5 10365.5 10365.5 10482.5 10416.5 10416.5 10433.5 10467.5 10501.5 10518.5 10552.5 10569.5 10603.5 10603.5	338 202 62 338 202 62 338 202 62 338 202 62 338 202 62 62 62 62 62 63 62 63 64 65 66 66 67 68 68 68 68 68 68 68 68 68 68	14 14 14 14 14 14 14 14 14 14 14 14 14 1	65 65 65 65 65 65 65 65 65 65 65 65 65 6
1480 1481 1482 1482 1484 1485 1486 1487 1488 1490 1491 1492 1493 1494 1495 1496 1497	SO[1183] SO[1183] SO[1183] SO[1185] SO[1186] SO[1188] SO[1189] SO[1190] SO[1191] SO[1191] SO[1192] SO[1193] SO[1194] SO[1195] SO[1196] SO[1197] SO[1198] SO[1199]	10348.5 10365.5 10365.5 10365.5 10382.5 10416.5 10416.5 10467.5 10467.5 10518.5 10552.5 10552.5 1069.5 110603.5 110620.5	338 202 62 338 202 62 338 202 62 338 202 62 338 202 62 338 202 62 338	14 14 14 14 14 14 14 14 14 14 14 14 14 1	65 65 65 65 65 65 65 65 65 65 65 65 65 6

PAD No.	PAD Name	X-axis	Y-axis	w	H
1501	LDR	-10864	358	26	50
1502	POLR	-10914	358	26	50
1503	DATR[0]	-11179	378.75	50	23.5
1504	DATR[1]	-11049	342	50	26
1505	DATR[2]	-11179	302	50	26
1506	DATR[3]	-11049	262	50	26
1507	DATR[4]	-11179	222	50	26
1508	DATR[5]	-11049	182	50	26
1509	DATR[6]	-11179	142	50	26
1510	DATR[7]	-11049	102	50	↑ ²⁶
1511	DATR[8]	-11179	62	50 ^	36
1512	DATR[9]	-11049	22	50	24
1513	DATR[10]	-11179	-18	V (20)	
1514	DATR[11]	-11049	-58	50	26
1515	DATR[12]	-11179	638	50	26
1516	DATR[13]	-11049	-138	50	26
1517	DATR[14]	-11179	115871	50	26
1518	DATR[15]	11049	3 -2/18	50	26
1519	DATR[16]	-11/19	-258	50	26
1520	DATR(17)	-V1049	-298	<u>^</u> 50	26
1521	DIOR	-11/79	-338	50	26
1522	DCLKR	11949	-376.5	/ 80	26

rad Name	A-axis	1 -axis
ARWIN-L.	19773	78
ALWIN_R	10773	78

9 DEFINITIONS

9.1. Data Sheet Status

Data Sheet	This data sheet contains final product specifications.

Contents in the document are subject to change without notice.

9.2. 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 PAD Names 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 of sales.

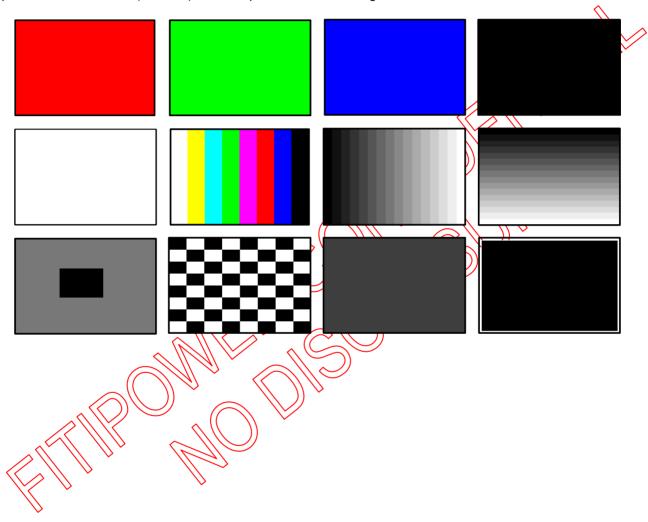
10. REVISION HISTORY

Revision	Content	Page	Date
1.0	New spec.		2018/01/25
1.1	Timing characteristic dclk frequency value modify Timing table clkin frequency modify	25-27	2018/03/27
1.2	Update Pad Coordinates	36-49	2018/06/08
1.3	Update Pad Coordinates	36~49	2018/09/21
1.4	Add VGH, VGL, VCOM in power on/off sequence	18	2019/0719
1.5	Modify VDD 1.7V 3.6V	2 , 28	2019/08/13

2019/08/13 50 Rev. **1.5**

APPENDIX A: BIST PATTERN

 $R \rightarrow G \rightarrow B \rightarrow Black \rightarrow White \rightarrow Color \ Bar \rightarrow Horizontal \ 256 \ gray \ scale \rightarrow Vertical \ 256 \ gray \ scale \rightarrow Crosstalk \ pattern \rightarrow Chess \ board \ (L255/L0) \rightarrow Flicker \ pattern \rightarrow Black \ background \ with \ white \ out \ frame$



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