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Single Chip 1536 Channel Source Driver with Timing Controller for 1024(RGB) × 600 TFT LCD

1. GENERAL DESCRIPTION

The EK79007is a highly integrated solution for small size to middle size a-Si TFT-LCD panels. This chip integrates 1536ch source driver with MIPI and LVDS input interface.

2. FEATURES

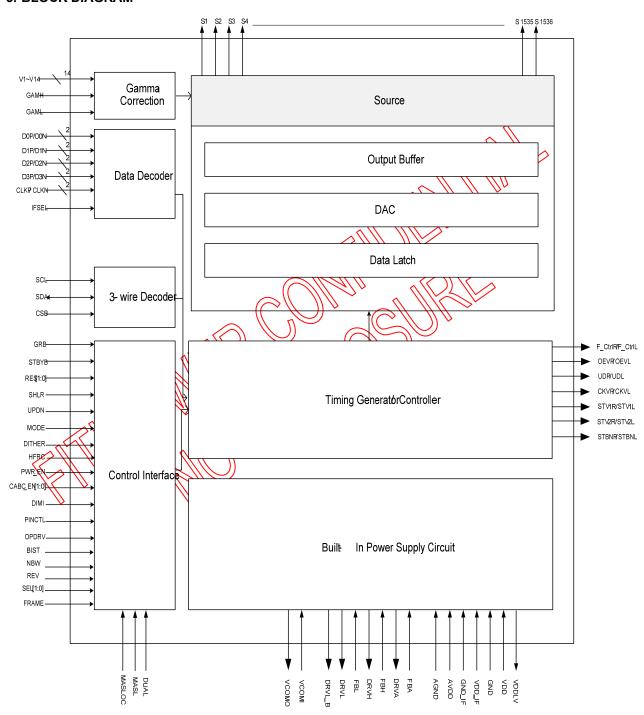
- Special design for middle size TFT LCD Panel with MIPI/LVDS interface
- Integrate 1536 channel source driver and timing controller with dual gate function
- Support cascade function with bidirectional shift control(CMOS signal)\
- Support panel resolution (HxV):1024(RGB)x768, 1024(RGB)x600, 800(RGB)x600,800(RGB)x480
- 8-bit resolution 256 gray-scale with dithering(6-bits DAC+2 bits FRC or HFRC)
- Power for MIPI circuit(VDD_IF): 1.8V
- Power for digital circuit(VDD): 1.8V
- Power for analog circuit(AVDD): 8.0V 13.5V
- Operating frequency: MIPI: 500Mbps (Max.) LVDS: 71MHz (Max.)
- Embedded Gamma Table for special customer request
- V1~V14 for adjusting Gamma correction
- 1+2 dot inversion architecture
- Built-In PWM controller for AVDD, Charge pump for VGH / VGL , and VCOM buffer

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- Built-In CABC function
- Built-In AUTO pattern
- Built-In SDRRS function
- Support no clock detection
- Support GIP bode
- COG package
- Chip size = 25000um * 730um
- Output bump pitch = 15um

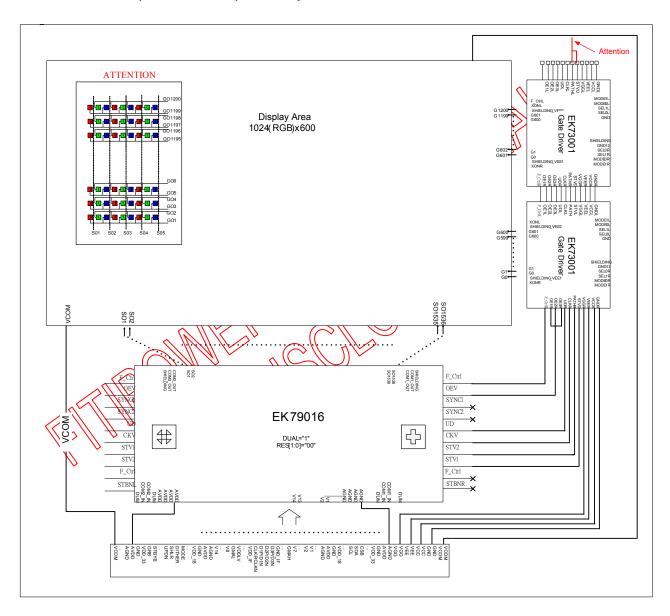
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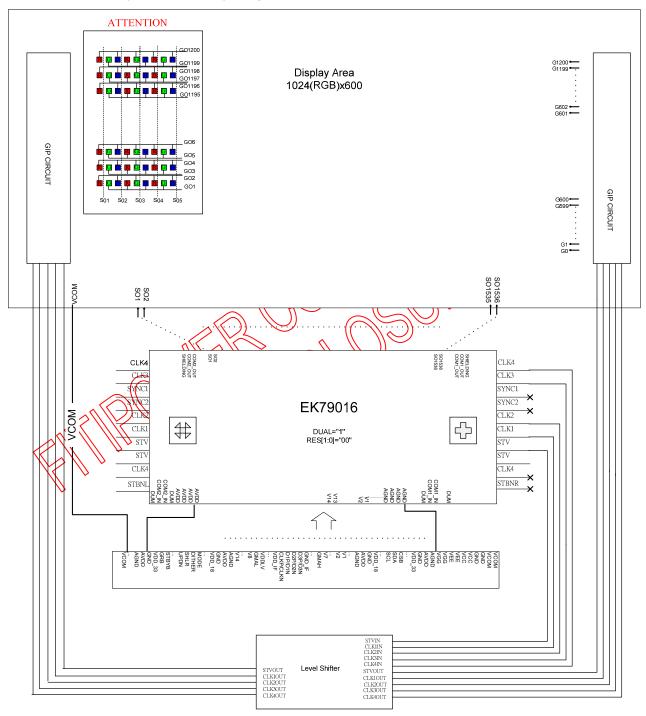


4.1. Dual Gate (1024RGB x 600)-non GIP panel

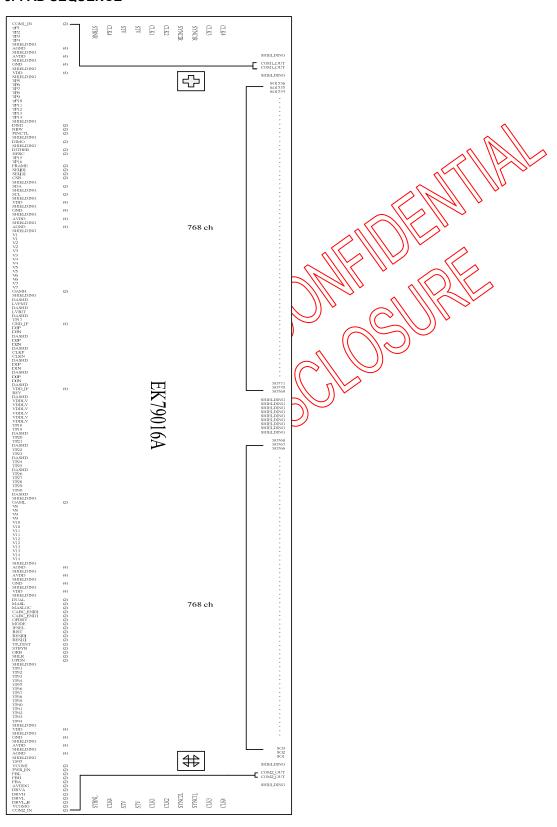


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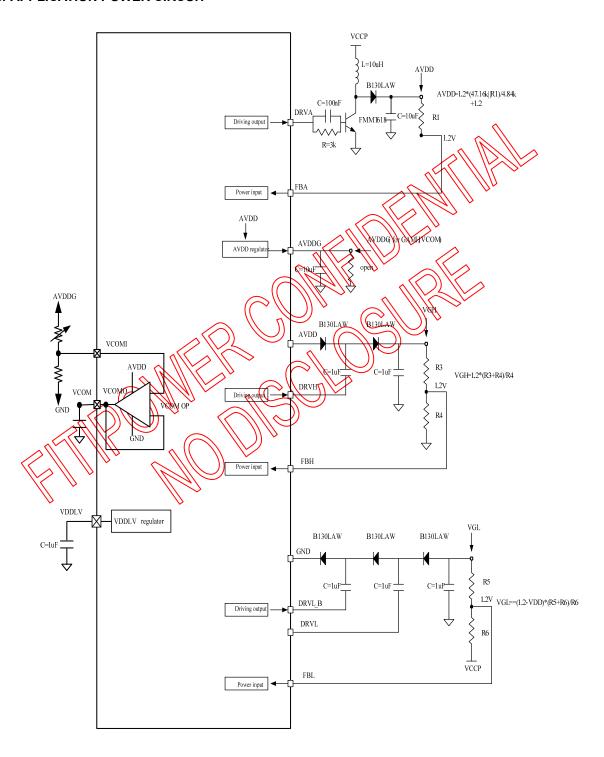
4.2. Dual Gate (1024RGB x 600)-GIP panel



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Pin Name	Pin Type	Description
D0P/D0N D1P/D1N D2P/D2N D3P/D3N	Input	MIPI or LVDS data input. Select by "IFSEL" pin.
CLKP/CLKN	Input	MIPI or LVDS clock input. Select by "IFSEL" pin
LVBIT	Input	6-bit / 8-bit input select for LVDS mode. LVBIT = "L", 6-bit. LVBIT = "H", 8-bit.(default)
LVFMT	Input	8-bit input format select for LVDS mode LVFMT = "L", VESA format (default) LVFMT = "H", JEIDA format.
MODE	Input	DE / HV mode select for cVDS mode. MODE = "H", DE mode (deafuit) MODE = "L", HV mode
GIP_MODE	Input	GIP_MOBE+"L", External gate driver mode (default) GIP_MODE="N"_GIP_MODE.
IFSEL	Input	MIP) and LVDS Interface selection. IFSEL = "H", LVDS interface. IFSEL = "L", MIPLINTERFACE. (default)
RES[1:0]	Input	RES[1:0]="01" for 1024(RGB)*768 display resolution RES[1:0]="00" for 1024(RGB)*600 display resolution (default) RES[1:0]="10" for 800(RGB)*600 display resolution (601~936 channel disable) RES[1:0]="11", for 800(RGB)*480 display resolution (601~936 channel disable)
DITHER	Input	Dithering function enable control. DITHER = "H", Enable internal dithering function DITHER = "L", Disable internal dithering function.(default).
HFRC	Input	H-FRC selection. HFRC = "L" : H-FRC disable(default) HFRC = "H" : H-FRC enable If "DITHER"="L", disable dithering function(HFRC and FRC disable)
DUAL	Input	Dual Gate function enables control. Normally pull high DUAL = "H", Enable Dual Gate Function. (Default) DUAL = "L", TBD
V1~V14	Input	When INTERNAL Gamma Table is used. GAMH tied to AVDDG, GAML tied to GND and V1~V14 pad are un-used. When using external gamma voltage, GAMH and GAML are floating, and V1~V14 are the external gamma correction points. The voltage of these pins must be: AGND <v14<v13<v12<v11<v10<v9<v8;v7<v6<v5<v4<v3<v2<v1<avdd.< td=""></v14<v13<v12<v11<v10<v9<v8;v7<v6<v5<v4<v3<v2<v1<avdd.<>
GAMH	Input	GMAH tied to AVDDG via when PWR_EN=H(enable internal PWM) or GMAH tied to AVDD via when PWR_EN=L(disable internal PWM)
GAML	Input	GMAL tied to GND via resistor.
GRB	Input	Global reset pin. Active Low to enter Reset State. Normally pull high. Connecting with an RC reset circuit for stability.

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HUPOW	<u>Ci</u>	EK19001					
Pin Name	Pin Type	Description					
STBYB	Input	Standby mode. STBYB = "H",normal operation(default) STBYB = "L", timing controller, source driver will turn off, all output are High-Z.					
SHLR	Input	Source right or left sequence control. SHLR = "L", shift left: last data = S1←S2←S3←S1536 = first data. SHLR = "H", shift right: first data = S1→S2→S3→S1536 = last data.(default)					
UPDN	Input	Gate up or down scan control. UPDN = "L", STV2 output vertical start pulse and DD pin output logical "L" to Gate driver. (default) UPDN = "H", STV1 output vertical start pulse and UD pin output logical "H" to Gate driver					
BIST	Input	Normal Operation/BIST pattern select. BIST = "H": BIST(DCLK input is not needed) BIST = "L": Normal Operation(default)					
NBW	Input	Normally black or normally white setting. NBW = "H": Normally black NBW = "L": Normally white(default)					
REV	Input	Controls whether the data of R[7:0] G[7:0] B[7:0] are inverted or not, normally pulled low. When REV="H"these data will be inverted. EX. "00">" 3F", "07">" 38", "15" - "24" and so on.					
FRAME	mpur	Frame inverse proof select Wormally pull low. FRAME = "H", Uniform FRAME = "L", Frame inverse (Default)					
		Gate on sequence select. Normally pull low SEL[1] SEL[0] Pin control function					
SEL(1:0]	Input	1 0 z					
		0 1 ₂ 0 0 Z(default)					
OEVR/OEVL	Output	Gate driver control signal When GIP_MODE ="H",OEVR=OEVL=CLK3.					
UDR/UDL	Output	Gate driver control signal When GIP_MODE ="H",UDR=UDL=CLK2.					
CKVR/CKVL	Output	Gate driver control signal When GIP_MODE ="H",CKVR=CKVL=CLK1.					
STV1R/STV1L	Output	Gate driver control signal When GIP_MODE ="H",STV1R=STV1L=STV.					
STV2R/STV2L	Output	Gate driver control signal When GIP_MODE ="H",STV2R=STV2L=STV.					
STBNR/STBNL	Output	Gate driver control signal					
F_CtrlR/F_CtrlL	Output	Gate driver control signal (For special Gate on sequence). In Dual Gate structure, connect this pin to gate driver's F_Ctrl. When GIP_MODE ="H",F_CtrlR=F_CtrlL=CLK4.					
CABC_EN[1:0]	Input	CABC H/W enable pin. When CABC_EN="00", CABC OFF. (default) When CABC_EN="01", User interface Image. When CABC_EN="10", Still Picture. When CABC_EN="11", Moving Image.					
DIMI	Input	Brightness control signal. Normally pull high.					
0040/44/00							

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Pin Name	Pin Type	Description						
riii Naiile	гіі туре							
		Backlight dimmer signal for external controller.						
DIMAG		DIMO = "L", Turn off external backlight controller						
DIMO	Output	Output DIMO = "H", Logical control signal to turn on external backlight control signal to turn on external back						
		NOTE: If CABC OFF, DIMO = DIMI.						
		Else DIMO is controlled by CABC						
		Enable pin control function. (for MIPI/LVDS IF)						
		PINCTL="L", Disable pin control function. The following pin will be						
		inactive:						
		LVDS IF: SHLR,UPDN,MODE,LVFMT,LVBIT,HERO DITHER,BIST,						
D.1.071		RES[1:0],OPDRV,NBW,PWR_EN,REV,CABC_EN(1:0)						
PINCTL	Input	FRAME.						
		MIPI IF:SHLR,UPDN,HFRC,DITHER,BIST,RESILOJ,,OPDRV,NBW,						
		PWR_EN,CABC_EN[1:0], REV, FRAME						
		PINCTL="H", Enable pin control function.(default)						
		NOTE: The related 3-wire control register bit control will be disabled						
		under PINCTL="H".						
		Source OP driving selection						
OPDRV	Input	OPDRV = "H" : 133%						
		OPDRV = "V": normal (default)						
CSB	Input	Serial communication chip select for LVDS E Normally pull high						
SDA	Input/Output	Serial communication data input for LVDS IF Normally pull low						
SCL	Input	Senal communication clock input for LVDS IF Normally pull low						
AVDD	PI //	Power supply for analog circuits						
AGND	먼 ((//	Ground pins for analog circuits						
GND	(PY)\\\\	Ground pips for digital circuits						
VDD	WI M	Power supply for digital circuits						
VDD IF	W BIN	MIPHLY OS DOWER						
GND JF(\\\		MIRVLVDS greend						
		WDDLP LDO output for MIPI LP mode TX use.						
YDDLW\\\	> PO \\\	VDDLP LDO enable on MIPI Interface (IFSEL = "L").						
		DLP LDO disable on LVDS Interface (IFSEL = "H").						
	1/4	PWR_EN = "H", enable PWM, Charge pump and VCOM buffer						
PWR EN	Input	PWR EN = "L", disable PWM, Charge pump and VCOM						
_		buffer(default)						
FBA	VI	PWM controller feedback input. (for AVDD)						
DRVA	Output	PWM output driver signal for the boost converter (for AVDD)						
FBH	VI	Charge Pump controller feedback input. (for VGH)						
DRVH	Output	Charge Pump driver signal for the boost converter (for VGH)						
FBL	VI	Charge Pump controller feedback input. (for VGL)						
DRVL	Output	Charge Pump driver signal for the boost converter (for VGL)						
DRVL B	Output	Inverse of DRVL(for VGL)						
VCOMI	Input	VCOM buffer in						
VCOMO	Output	VCOM buffer out						
AVDDG	Output	AVDD regulator output						
		Source Driver Output Signals						
SO1~SO1536	Output	All outputs will be of unknown values under stand-by mode.						
COM1 IN		All outpute will be of ultitilowil values ultuel stallu-by filoue.						
COM1_IN	S	Internal link together between input side and output side						
		· · · · · · · · · · · · · · · · · · ·						
COM2_IN	S	Internal link together between input side and output side.						
COM2_OUT								
CHIELDING	611	Those pins are internally connected to the AGND.						
SHIELDING	SH	DO NOT connect to any WOA on the panel.						
		Data Bus Shielding pad						

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Pin Name	Pin Type	Description
DASHD	SH	Those pins are internally connected to the GND. RECOMMAND to add shielding lines on the FPC to reduce EMI.
TP1~TP45	T	DO NOT connect to any WOA on the panel and floating on panel.

Note:

P: Power, D: Dummy, S: Shorted line, M: Mark, PI: Power input, PO: Power output,

T: Testing, SH: Shielding, PS: Power Setting, C: Capacitor pin.

Pass Line Description:

Pass Line No.	Pac	d Name
1	COM1_IN	COM1_OUT
2	COM2_IN	COM2 OUT

7.1. Value of wiring resistance to each pin

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

Source wiring:

Course wiring.		///	
Pin name	Wiring resistance value(Ω)	Pin name	Wiring resistance value(Ω)
AVDD	<5	FRAME	<100
AGND	<5	SEL[1:0]\\	<100
VDD_IF	45/	CSB	<100
VDD		SDA	<100
GND_IF	k5\\) SCL	<100
VDDLV	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	REV	<100
GND 💉	<5 \\ \\\	CABC_EN[1:0]	<100
V1~V14	<5	OPDRV	<100
DÆVX\\\	(1)0 25(1)	BIST	<100
KBX \\	\\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	RES[1:0]	<100
ACQMI A	45	DCLKPOL	<100
VCOMO	<8	STBYB	<100
D0P/D0N	<5	GRB	<100
D1P/D1N	<5	SHLR	<100
D2P/D2N	<5	UPDN	<100
D3P/D3N	<5	PINCTL	<100
CLKP/CLKN	<5	DUAL(Reserved)	<100
DIMI	<100	MASL(Reserved)	<100
DIMO	<100	MASLOC(Reserved)	<100
NBW	<100	MODE(Reserved)	<100
PINCTL	<100	LVBIT	<100
DITHER	<100	LVFMT	<100
IFSEL	<100		_
HFRC	<100		·

Gate wiring:

Pin name	Wiring resistance value(Ω)	Pin name	Wiring resistance value(Ω)		
VGH	<50	OEVX	<100		
VGL	<30	UDX	<100		
VCC	<50	CKVX	<100		
GND	<40	STBNX	<100		
STV1X/STV2X	<100	F_CtrlX	<100		

8. MIPI INTERFACE (MOBILE INDUSTRY PROCESSING INTERFACE)

The Display Serial Interface standard defines protocols between a host processor and peripheral devices that adhere to MIPI Alliance standards for mobile device interfaces. The DSI standard builds on existing standards by adopting pixel formats and command set defined in MIPI Alliance standards.

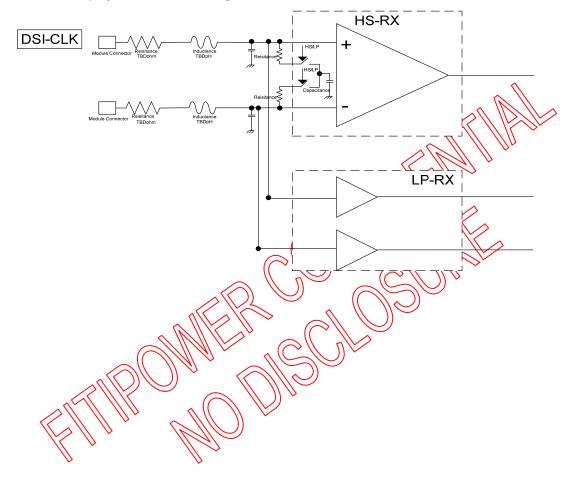
DSI-compliant peripherals support either of two basic modes of operation: Command Mode and Video Mode. Which mode is used depends on the architecture and capabilities of the peripheral. The mode definitions reflect the primary intended use of DSI for display interconnect, but are not intended to restrict DSI from operating in other applications.

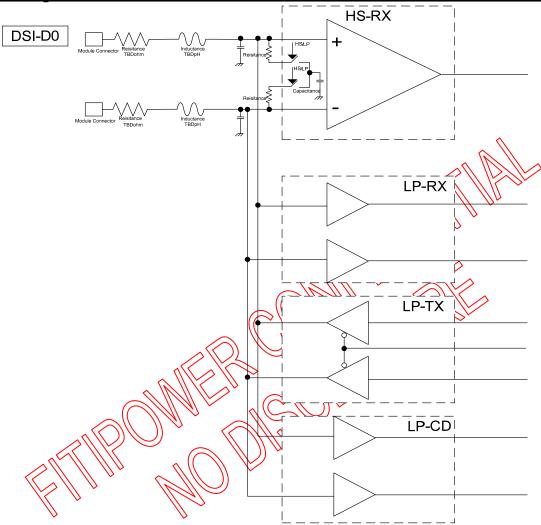
Command Mode refers to operation in which transactions primarity take the form of sending commands and data to a peripheral, such as a display module, that incorporates a display controller. The display controller may include local registers. Systems using Command Mode write to, and read from, the registers. The host processor indirectly controls activity at the peripheral by sending commands, parameters and data to the display controller. The host processor can also read display module status information. Command Mode operation requires a bidirectional interface

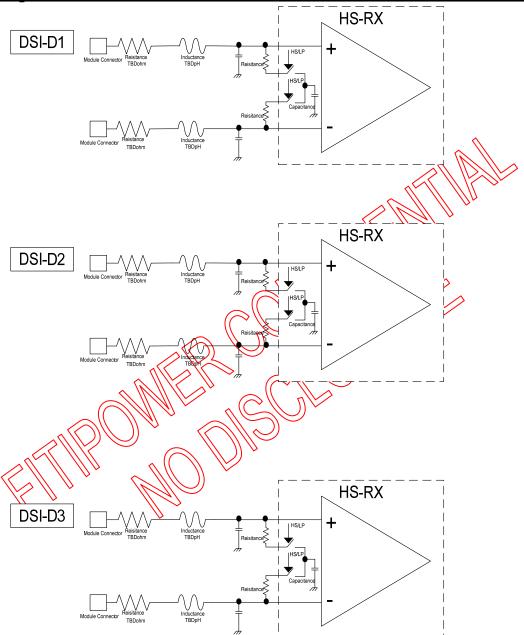
Video Mode refers to operation in which transfers from the host processor to the peripheral take the form of a real-time pixel stream. In normal operation, the display module relies on the host processor to provide image data at sufficient bandwidth to avoid thicker or other visible artifacts in the displayed image. Video information should only be transmitted using High Speed Mode. To reduce complexity and cost, systems that only operate in Video Mode may use a unidirectional data path.

IPI Lane Configuratio	n: /\\\\\\	
		MCU (Master) Display Module (Slave)
	Clock Kane	Unidirectional Lane
((Clock Only
		Escape Mode(ULPS Only)
	Data Lane0	Bi-directional Lane
		Forward High-Speed
		Bi-directional Escape Mode
		Bi-directional LPDT
	Data Lane1	Unidirectional
		Forward High speed
	Data Lane2	Unidirectional
		Forward High speed
	Data Lane3	Unidirectional
		Forward High speed

8.1. Display Module Pin Configuration for DSI









8.2. Display Serial Interface (DSI)

8.2.1. Video Mode Communication

Video Mode peripherals require pixel data delivered in real time. This section specifies the format and timing of DSI traffic for this type of display module.

Transmission Packet Sequences

DSI supports several formats, or packet sequences, for Video Mode data transmission. The peripheral's timing requirements dictate which format is appropriate. These terms are used throughout the following sections:

- Non-Burst Mode with Sync Pulses enables the peripheral to accurately reconstruct original video timing, including sync pulse widths.
- Non-Burst Mode with Sync Events similar to above, but accurate reconstruction of sync pulse widths is not required, so a single Sync Event is substituted.
- Burst mode RGB pixel packets are time-compressed, leaving more time during a scan line for LP mode(saving power) or for multiplexing other transmissions onto the DST link.

In the following figures the Blanking of Low-Power Interval (BLR) is defined as a period during which video packets such as pixel-stream and sync event backets are not actively transmitted to the peripheral. To enable PHY synchronization the nost processor should periodically end HS transmission and drive the Data Lanes to the LR state. This transition should take place at least once per frame; shown as LPM in the figures in this section. It is recommended to return to LP state once per scanline during the horizontal blanking time. Regardless of the frequency of BLLP periods, the host processor is responsible for meeting all documented peripheral timing requirements. Note, at lower frequencies BLLP periods will approach, or become zero.

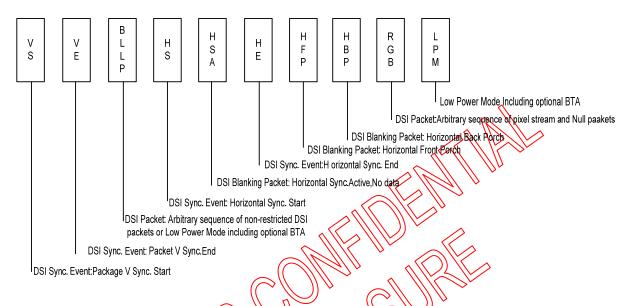
During the BLLP the DSI Link may do any of the following:

- Remain in Idle Mode with the thest processor in LP-11 state and the peripheral in LP-RX.
- Transmit one or more non-video packets from the host processor to the peripheral using Escape Mode.
- Transmit one or more non-video packets from the host processor to the peripheral using HS Mode.
- If the previous processor-to-peripheral transmission ended with BTA, transmit one or more packets from the peripheral to the host processor using Escape Mode.
- Transmit one or more packets from the host processor to a different peripheral using a different Virtual Channel ID.

The sequence of packets within the BLLP or RGB portion of a HS transmission is arbitrary. The host processor may compose any sequence of packets, including iterations, within the limits of the packet format definitions. For all timing cases, the first line of a frame shall start with VS; all other lines shall start with HS. This is also true in the special case when VSA+VBP=0. Note that the position of synchronization packets, such as VS and HS, in time is of utmost importance since this has a direct impact on the visual performance of the display panel.

Normally, RGB pixel data is sent with one full scan line of pixels in a single packet. Individual pixels shall not be split across packets.

Transmission packet components used in the figures in this section are defined in Figure below unless otherwise specified.



DSI Video Mode Interface Timing Legend

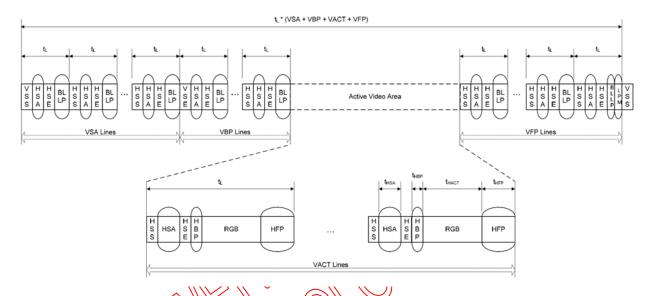
If a peripheral timing specification for HBP or HFP minimum period is zero, the corresponding Blanking Packet may be omitted. If the HBP or HFP maximum period is zero, the corresponding blanking packet shall be omitted.

Clock Requirements

A DSI host processor shall support continuous clock on the Clock Lane for display module that require it, so the host processor needs to keep the HS serial clock running.

●Non-Burst Mode with Sync Pulses

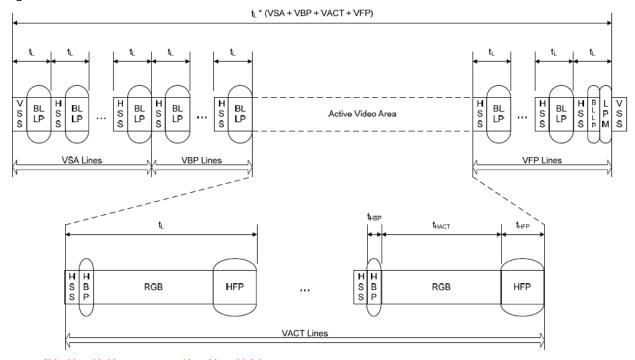
With this format, the goal is to accurately convey DPI-type timing over the DSI serial Link. This includes matching DPI pixel-transmission rates, and widths of timing events like sync pulses. Accordingly, synchronization periods are defined using packets transmitting both start and end of sync pulses. An example of this mode is shown in Figure below.



Normally, periods shown as HSA (Herizontal Syno Active), HBP (Horizontal Back Porch) and HFP (Horizontal Front Porch) are filled by Blanking Packets, with lengths (including packet overhead) calculated to match the period specified by the peripheral's data sheet. Alternatively, if there is sufficient time to transition from HS to LP mode and back again, a timed interval in LP mode may substitute for a Blanking Packet, thus saving power.

●Non-Burst Mode with Sync Events

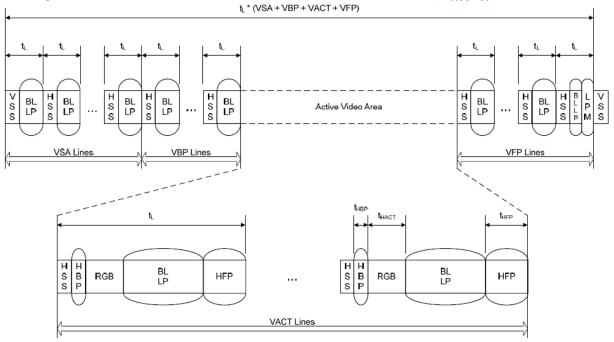
This mode is a simplification of the format described in section "Non-Burst Mode with Sync Pulse" .Only the start of each synchronization pulse is transmitted. The peripheral may regenerate sync pulses as needed from each Sync Event packet received. Pixels are transmitted at the same rate as they would in a corresponding parallel display interface such as DPI-2. An example of this mode is shown in Figure below.



As with the previous Non-Burst Mode, if there is sufficient time to transition from HS to LP mode and back again, a timed interval in LP mode may substitute for a Blanking Packet, thus saving power.

Burst Mode

In this mode, blocks of pixel data can be transferred in a shorter time using a time-compressed burst format. This is a good strategy to reduce overall DSI power consumption, as well as enabling larger blocks of time for other data transmissions over the Link in either direction. There may be a line buffer or similar memory on the peripheral to accommodate incoming data at high speed. Following HS pixel data transmission, the bus goes to Low Power Mode, during which it may remain idle, i.e. the host processor remains in LP-11 state, or LP transmission may take place in either direction. If the peripheral takes control of the bus for sending data to the host processor, its transmission time shall be limited to ensure data underflow does not occur from its internal buffer memory to the display device. An example of this mode is shown in Figure below.



Similar to the Non-Burst Mode scenario, if there is sufficient time to transition from HS to LP mode and back again, a timed interval in LP mode may substitute for a Blanking Packet, thus saving power.



9. COMMAND DESCRIPTION

9.1. MIPI Control Register

Following table list all the MIPI control registers and bit name definition for EK79007A. Refer to the next section for detail register function description, please.

Setting of all the MIPI registers will take effect at the coming valid Vsync signal except GRB bit. All the MIPI control registers and bit name definition:

	Register address									MSB							Default (hex)	
No.	A7	A6	A5	A4	А3	A2	A1	A0	R/W	D7	D6	D5	D4	D3	D2	DI	DO	_
R00h	0	0	0	0	0	0	0	0	0		NOP NOP							_
R01h	0	0	0	0	0	0	0	1	0				GRI	<u> </u>				_
R05h	0	0	0	0	0	0	0	1	0				RDNUME	// \\	9			_
R0Ah	0	0	0	0	1	0	1	0	1				GET POWE					_
R0Dh	0	0	0	0	1	1	0	1	1			- 1	GET DISPL	<u> </u>	<u> </u>			_
R0Eh	0	0	0	0	1	1	1	0	1		G.	Me	GET_SIGNAL_	~ ()	30)			_
R0Fh	0	0	0	0	1	1	1	1	1		$\gg 1$		RDDSDR	11/11				_
R10h	0	0	0	1	0	0	0	0	0				ENTER_SLE	\sim \sim				_
R11h	0	0	0	1	0	0	0	1	0)	EXIT SLEE	/				_
R20h	0	0	1	0	0	0	0	0	d		>		EXIT INVER	T_MODI	E			_
R21h	0	0	1	0	0	0	o (7/	18				ENTER_INVE	RT_MOI	DE			_
R36h	0	0	1	1	0	1(1	Ø	11/6	0 (1/8		0	0	0	UPDN(0)	SHLR(1)	01
R78h	0	1	~ \	V	(A	Á	9	1/0		11/1/4		GipStvDly_	Len[7:0]				C8
R79h	0	N ^K	\langle	1	1	9	0	1	1/0		<u>// ``</u>				GIPStvD	0ly_Len[12:8]	00
R7Ah	0	1	1	N	1	ò	1	0<	1/0		<u> </u>		GipCkvDly_	Len[7:0]				64
R7Bh	0	1	1/	1	1	0	1	1	150						GipCkvE	Oly_Len[12:8	1	00
R80h	1	Ø	0	0	0	0	0	0	1/0	•	G2R[3	3:0] (1000)	1		G1R[3	3:0] (1000)		88
R81h	1	0	0	0	0	0	0	1	1/0		G4R[3	3:0] (1000)	1		G3R[3	3:0] (1000)		88
R82h	1	0	0	0	0	0	1	0	1/0		G6R[3	3:0] (1000)	1		G5R[3	3:0] (1000)		88
R83h	1	0	0	0	0	0	1	1	1/0		G8R[3	:0] (1000)	1		G7R[3	3:0] (1000)		88
R84h	1	0	0	0	0	1	0	0	1/0		G10R[3:0] (1000)		G9R[3	3:0] (1000)		88
R85h	1	0	0	0	0	1	0	1	1/0		G12R[3:0] (1000)		G11R[3:0] (1000)		88
R86h	1	0	0	0	0	1	1	0	1/0	G14R[3:0] (1000) G13R[3:0] (1000)					88			
RB0h	1	0	1	1	0	0	0	0		PWR_EN(0)	PWR_EN(0)					_	00	
RB1h	1	0	1	1	0	0	0	1	1/0	CABC_EN[1	CABC_EN[1:0](00) HFRC(0) DITHER(0) BIST(0) RES[1:0] (00) -					00		
RB2h	1	0	1	1	0	0	1	0	1/0	_	NBW(0)	_	2Lane_EN(0)	_	_	_	-	00
RB3h	1	0	1	1	0	0	1	1	1/0	-	_	_	-	-	FRAME(0)	SEL	[1:0]	00



R00h: NOP (No Operation)										
Address (MIDLI/E)	s (MIPI I/F) 00h						Access Attribute Number of Parameter(s)			
Address (MIFT I/F)										
Parameter	D[7]	D[6]	D[5]	D[4]	D[3]	D[2]	D[1]	D[0]	Default Value	
	No Argui	ment							N/A	
Description	ription This command performs no operation and is ignored by the device.									

R01h: GRB (Software Reset)									
Address (MIPI I/F)		01h			Acce	W			
Address (MIFT I/F)					Number	0			
Parameter	D[7]	D[7] D[6] D[5] D[4] D[3]				D[1] D[0]		Default Value	
	No Argui	ment							N/A
Description	comman		rameters		written, it W Reset re				

(1) It will be necessary to wait 20 msec before sending new command following software reset.

(2) The display module loads all display supplier's factory default values to the registers during to meet.

R05h: RDNUMED (reserved)

ROAh: GET POWER MODE (Read Display Rower Mode)

Address (MIPI I/F)			0Ah		,	Acce	ss Attribu	te	R
Address (MIFT I/F)			UAII			Number	1		
Parameter	D[7]	D[6]	D[5]	D[4]	D[3]	D[2]	D[1]	D[0]	Default Value
	D7	D6	D5	D4	D3	D2	D1	D0	00h
Description	D[4]:Sle	D[4]:Sleep In/Out							
	"0" =Sle	"0" =Sleep Out, "1" =Sleep In							

RODh: GET DISPLAY MODE (Read the Current Display Mode)

TODII. OLI_DIGI LITI	_ <u>'''' </u>	Trodd the Carrent Biopidy Mode)							
Address (MIPI I/F)			0Dh			Acc	ess Attrib	ute	R
Address (MIFT I/F)		ODII			Numbe	1			
Parameter	D[7]	D[6]	D[5]	D[4]	D[3]	D[2]	D[1]	D[0]	Default Value
	D7	D6	D5	D4	D3	D2	D1	D0	00h
Description	D[5]:Inve	D[5]:Inversion On/Off							
	"0" =Inv	ersion off,	"1" =Inv	ersion on					



R0Eh: GET_SIGNAL_MODE (TBD)									
Address (MIPI I/F)			0Fh		Acc	R			
Address (MIFT I/F)		OFN				Number	1		
Parameter	D[7]	D[6]	D[5]	D[4]	D[3]	D[2]	D[1]	D[0]	Default Value
	No Argui	lo Argument						00h	
Description	D[0]:Erro	r on DSI							
	"1" :err								
Restriction	-								

R0Fh:RDDSDR (Read Display Self-Diagnostic Result)(TBD)

R10h FNTFR	SLEEP	MODE	(Enter the	Sleep-In Mode)	
	OLLLI	IVIODE		Ciccp iii wicac,	

Address (MIPI I/F)			10h			Acce	ess Attrib	ute	W
Address (MIFT I/F)					Number	0			
Parameter	D[7]	D[6]	D[5]	PRAI	/DI31	D[2]	D[1]	D[0]	Default Value
	No Argui	ment		Majo			>		Sleep In
Description	This command initiates the power-down sequence. The Sleep In profile will executed when this command is received.						file will be	!	
Restriction	This con	mand has	no effect	when the	display m	odule is al	ready in S	Sleep Mo	de.

R11h: EXIT_SLEEP_MODE (Exit the Sleep-In Mode)

Address (MIPI I/F)	11h	11h			ess Attribi	ute	W
Address (MIFT I/F)	1111	Number	0				
Parameter	D[7] D[6] D[5]	D[4]	D[3]	D[2]	D[1]	D[0]	Default Value
	No Argument		Sleep				
Description		This command initiates the power-up sequence. The Sleep Out will load register value. It will be necessary to wait 5 msec before sending next command.					
Restriction	This command will not cause in Sleep.	e any visib	le effect o	n the disp	lay when	the displa	y is not

R20h:EXIT_INVERT_MODE (Display Inversion Off)

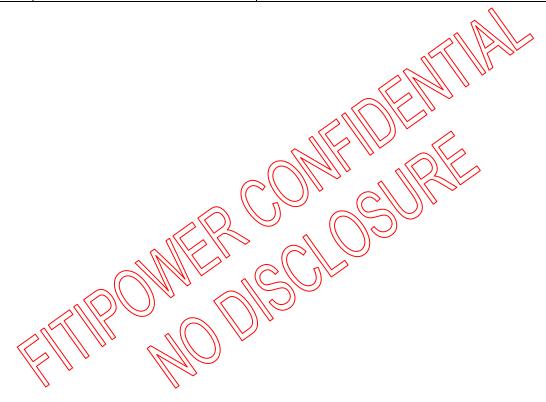
Address (MIDLI/E)	ddress (MIPI I/F) 20h				Acc	Access Attribute			
Address (MIFT I/I)				Number	0				
Parameter	D[7]	D[6]	D[5]	D[4]	D[3]	D[2]	D[1]	D[0]	Default Value
	No Argui	No Argument							Inversion Off
Description		This command is used to recover from display reverse mode and does not change any other status.							
Restriction	This com	mand has	no effect	when the	module is	already in	inversion	off mode	Э.



R21h: ENTER_INVERT_MODE (Display Inversion On)									
Address (MIDLI/E)		24h					ess Attribi	ute	W
Address (MIPI I/F)		21h				Number	0		
Parameter	D[7]	D[6]	D[5]	D[4]	D[3]	D[2]	D[1]	D[0]	Default value
	No Argui	No Argument In							Inversion Off
Boomption	This command is used to enter display Inversion mode and does not change any other status. To exit from Display Inversion on, the Display Inversion off command (20h) should be written.								
Restriction	This comr	mand has	no effect	when the	module is	alreadyin	inversion	on mode	

R36h: SET_ADDRESS	S_MODE ((Data Acc	ess Control)	~~		7/1			
Address (MIPI I/F)			36h				Access At	tribute	R/W
			3011			Numb	er of Para	meter(s)	1
Parameter	D[7]	D[6]	DIS	DIAJ//	D[3]))[Ş]	D[1]	D[0]	Default Value
	0	4	0	0		0	UPDN	SHLR	01h
Description	716	PDN: Gate up or down scan control. UPDN = "0", STV2 output vertical start pulse and UD pin output logical "0" to G)" to Gate
	UPDN = "1" STYT output vertical start pulse and UD pin output logical "1" Gate driver.							I" to	
	. (HLR: Source right or left sequence control. SHLR = "0", shift left: last data = S1-S2-S3S1200 = first data.							
	// /	SHIR = "1", shift right: first data = S1→S2→S3→S1200 = last data. (default)							

Address	Description						
R78h		GipStvDly_Len[7:0]	C8				
R79h	_	GIPStvDly_Len[12:8]	00				
R7Ah		GipCkvDly_Len[7:0]	64				
R7Bh	_	GipCkvDly_Len[12:8]	00				



R80h:	Gamma	Control	Register

Address (MIPI I/F)			80h				R/W		
			0011		Numb	1			
Parameter	D[7]	D[6]	D[5]	D[4]	D[3]	D[2]	D[1]	D[0]	Default Value
	G2R				G1R				88h
Description	Gamma vo	oltage sett	ing.						

R81h: Gamma Control Register

rto III. Gairina Goria	n i togiotoi						11//////	^		
Address (MIPI I/F)		81h					Access Attribute			
							Number of Parameter(s)			
Parameter	D[7]	D[6]	D[5]	D[4]	Df3f	D [5]	D[1]	D[0]	Default Value	
	G4R				G3	R		88h		
Description	Gamma vo	oltage sett	ing.							

R82h: Gamma Control Register

Address (MIPI I/F)	82h		Access At	tribute	R/W
	0211	Numb	1		
Parameter	D[7] D[6] D[5] D[4] D[3]	D[2]	D[1]	D[0]	Default Value
Farameter	G6R N	G!	5R		88h
Description	Gamma voltage setting.				

R83h: Gamma Control Register

Address (MIPI I/F)		83h					Access Attribute		
							Number of Parameter(s)		
Parameter	D[7]	D[6]	D[5]	D[4]	D[3]	D[2]	D[1]	D[0]	Default Value
T didinotoi	G8R					G7R			
Description	Gamma vo	oltage sett	ing.						

R84h: Gamma Control Register

Address (MIPI I/F)		84h					Access Attribute			
							Number of Parameter(s)			
Parameter	D[7]	D[6]	D[5]	D[4]	D[3]	D[2]	D[1]	D[0]	Default Value	
	G10R				G9R				88h	
Description	Gamma vo	oltage sett	ing.							

R85h: Gamma	Control	Register
-------------	---------	----------

Address (MIPI I/F)			85h				R/W		
			0311		Numb	1			
Parameter	D[7]	D[6]	D[5]	D[4]	D[3]	D[2] D[1] D[0]			Default Value
	G12R				G11R				88h
Description	Gamma vo	oltage sett	ing.						

R86h:	Gamma	Contro	l Register

Ttoon: Camina Contro	n i toglotoi					~ \ \	11 // ///	7	
Address (MIPI I/F)		86h					Access Attribute		
							Number of Parameter(s)		
Parameter	D[7]	D[6]	D[5]	D[4]	D[3]	22	D[1]	D[0]	Default Value
	G14R					G1	3R		88h
Description	Gamma vo	oltage sett	ing.						

•		$\sim 11/2$			
RB0h: Panel Control I	Register		/		
Address (MIPI I/F)	B0h		Access At	tribute	R/W
	DUII	Numb	1		
Parameter	D[7] D[6] D[5] D[4] D[3]	D[2]	D[1]	D[0]	Default Value
	PWREN	_	_	_	00h
Description	RWR_EN: POWER enable:				
	PWR_EN = "1", enable PWM, Charge pump and	d VCOM b	uffer		
	PWR EN = "0", disable PWM, Charge pump an	d VCOM b	ouffer (Def	ault)	
//	// *				



RB1h: Panel Contro	l Register										
Address (MIPI I/F)			B1h				Access At	tribute	R/W		
			DIII			Numb	er of Para	meter(s)	1		
	D[7]	D[6]	D[5]	D[4]	D[3]	D[2]	D[1]	D[0]	Default Value		
Parameter	CABC_EN[1:0] HFRC DITHER BIST (00) (0) (0)				RES	[1:0] 0)	_	00h			
Description	CABC_EN	V[1:0]:CAB	C H/W er	nable pin.		`	•				
		When CABC_EN="00" , CABC OFF. (Default mode)									
		When CABC_EN="01", User interface mage.									
		Whe	n CABC_	_EN="10"	, Still Pictor	e.	//n				
		When CABC_EN="11", Moving Image									
	HFRC: H-I	RC: H-FRC selection.									
	HF	HFRC = "1" : H-FRC enable									
	HF	RC = "0"	: H-FRC	disable (C	Default)	$\bigcirc \mathbb{N}$	^				
				le dithering	\sim \sim	FRC and	d FRC dis	able)			
			// //	nable cont)) //					
		ONTHER =	"1" ≠Ena	able intern	dithering	function					
	1 /4/	11 ~ \	- 17	able intern		g function	(Default)				
	~//////////////////////////////////////	\ \ \ \ \ \	11 4 11	pattern se		.d\					
$ \bigcirc\rangle$	11 0		///) Operation (u)					
	RES[1;0]	\sim $^{\prime\prime}$	11 0	RGB)*768 (,	alution					
		(/ // //	•	RGB)*600 (fault)				
			•	, ЗВ)*600 di		`	,				
Ť			`	,		uuuii					
		•		el disable)							
			•	GB)*480 di el disable)		ution					
		(001 0	oo onann	or albabic ,	1						

RB2h: Panel Control Register

Address (MIPI I/F)		B2h Access Attribute										
			DZII			Numb	1					
Devementes	D[7]	D[6]	D[5]	D[4]	D[3]	D[2]	D[1]	D[0]	Default Value			
Parameter	_	NBW (0)	1	2Lane_EN (0)			_	_	00h			
·	NB NB	(0) (0) (0) NBW: Normally black or normally white setting. NBW="1" : Normally black. NBW="0" : Normally white(default). Lane_EN: 2 lane/4 lane setting 2Lane_EN="0":4 lane(default) 2Lane_EN="1":2 lane										

fitipower

	_								
RB3h: Panel Control I	Register <mark>(n</mark>	on GIP mo	ode)						
Address (MIPI I/F)			B2h			,	Access At	tribute	R/W
			DZII	Numb	1				
Danamatan	D[7]	D[6]	D[5]	D[4]	D[3]	D[2]	D[1]	D[0]	Default Value
Parameter	_	_	_	_	_	FRAME (0)	SEL (0		00h
Description		RAME =	"1",Ur "0",Fr	niform ame invers	se(Default)			>	
	SEL[1:0]:0			elect.	in agetual f		115/11	7	
	SEL[1] SEL 1	0]	Р	in control f	· 11 11		4	
	1	0			\sim	1/1/2/		4	
	0	1			() Z	711		-	
				_					
	0	0		Z(default)					

9.2. 3-Wire Serial Port Interface (Only For LVDS Mode)

9.2.1. 3-Wire Command Format

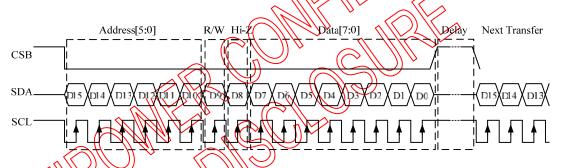
EK79007use the 3-wire serial port as communication interface for all the function and parameter setting. 3-Wire communication can be bi-directional controlled by the "R/W" bit in address field.

EK790073-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.



3-Wire Command Format:

Bit	Description
D15>D(0	Register Address [5:0].
/D9 V	W/R control bit. "0" for Write; "1" for Read
Ď8	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

3-Wire Write Format:

MSB															LSB
D15	D14	D13	D12	D11	D10	D9	D8	D7	D6	D5	D4	D3	D2	D1	D0
Register Address[5:0]						0	Χ		Data	a(Issue	by ex	ternal	contro	ller)	

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] 1						1	Hi-Z		D	ata(Iss	ue by	3-wire	engin	e)	



9.2.2. 3-Wire Control Registers

Following table list all the 3-Wire control registers and bit name definition for EK79007A. 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.

	D15	D14	D13	D12	D11	D10	D9	D7	D6	D5	D4	D3	D2	D1	D0	Default
Address (Hex)				dress			R/W				Commar	nd Setting				
00	0	0	0	0	0	0	1/0	PWR_EN (0)	_	SHLR(1)	UPDN(0)	STBYB(1)	GRB(1)	_	MODE(1)	2d
01	0	0	0	0	0	1	1/0	CABO	Z(00)	HFRC(0)	DITHER(0)	BIST(0)	RES	S(00)	_	00
02	0	0	0	0	1	0	1/0	_	NBW(0)	_	_	_	_	LVFMT(0)	LVBIT(1)	01
03	0	0	0	0	1	1	1/0	_	_	_	_	REV(0)	FRAME(0)	SEL[1:0](00)	00
16	0	1	0	1	1	0	1/0		GipStvDly_Len[7:0]							80
17	0	1	0	1	1	1	1/0		- GIPStvDly_Len[12:8]							00
18	0	1	1	0	0	0	1/0		GipCkvDly_Len[7:0]							40
19	0	1	1	0	0	1	1/0		-	_			GipCkvDly	y_Len[12:8]		00
1E	0	1	1	1	1	0	1/0		G2R[3:	:0] (1000)				88		
1F	0	1	1	1	1	1	1/0		G4R[3:	:0] (1000)			G3R[3:0	0] (1000)		88
20	1	0	0	0	0	0	1/0		G6R[3:	[0] (1000)			G5R[3:0	0] (1000)		88
21	1	0	0	0	0	1	1/0		G8R[3:0] (1000)				G7R[3:0	0] (1000)		88
22	1	0	0	0	1	0	1/0	G10R[3:0] (1000)				G10R[3:0] (1000) G9R[3:0] (1000)				
23	1	0	_0_	0	1	1	1/0		G12R[3:0] (1000) G11R[3:0] (1000)						88	
24	1	0	0	1	0	0	1/0		G14R[3	3:0] (1000)			G13R[3:	:0] (1000)		88

Designation	Address	Description
Mode	R00[0]	DE/SYNC mode select. MODE = 0: HSD/VSD mode
		MODE = 1: DE mode(default)
GRB	R00[2]	Global reset bit.
		GRB = 0: The controller is in reset state GRB = 1: Normal operation. (Default)
STBYB	R00[3]	Standby mode selection bit
0.5.5	1.100[0]	STBYB= 0: Timing control, driver and DC-DC converter, are off, and all
		outputs are High-Z.
		STBYB= 1: Normal operation. (Default)
UPDN	R00[4]	Gate Up or Down scan control.
		UPDN = 0: STV2 output vertical start pulse and UD pin output logical "0" to Gate driver.
		UPDN = 1: STV1 output vertical start pulse and UD pin output logical "1" to
		Gate driver. (Default)
SHLR	R00[5]	Right/Left sequence control of source driver.
		SHLR= 0:Shift left: Last data = S1 <s2<s3<s1200=first data<="" td=""></s2<s3<s1200=first>
		SHLR= 1:Shift right: First data = S1 <s2<s3<s1200=last data(default)<="" td=""></s2<s3<s1200=last>
PWR_EN	R00[7]	POWER enable.
		PWR_EN =1: enable PWM , Charge pump and VCOM buffer
		PWR_EN =0: disable PWM , Charge pump and VCOM buffer (Default)

fitipower PO1h: System Control Register

R01h: System Cont	i oi Registei	
Designation	Address	Description
RES[1:0]	R01[2:1]	RES[1:0] = 01: for 1024(RGB)*768 display resolution
		RES[1:0] = 00: for 1024(RGB)*600 display resolution (default)
		RES[1:0] = 10: for 800(RGB)*600 display resolution
		(601~936 channel disable)
		RES[1:0] = 11: for 800(RGB)*480 display resolution
		(601~936 channel disable)
BIST	R01[3]	Normal Operation/BIST pattern select.
		BIST = 1: BIST(DCLK input is not needed)
		BIST = 0: Normal Operation (Default)
DITHER	R01[4]	Dithering function enable control.
		DITHER = 1: Enable internal dithering function
		DITHER = 0: Disable internal dithering function (Default)
HFRC	R01[5]	H-FRC selection.
		HFRC = 1: H-FRC enable
		HFRC = 0: H-FRC disable (Default)
		If DITHER= O:disable withering function() - FRC and FRC disable)
CABC_EN[1:0]	R01[7:6]	When CABC EN +00: CABC OFF. (Default mode)
		When CABC_EN =01: User interface image.
		When CABC EN =10: Still Ricture
	\geq	When CABC_EN=11: Moving Image

R02h: System Control Register

NOZII. System Conti	OLI REGISTALL (III	
Designation	Address	Description
LVBIT	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	6-bit 78-bit input select for LVDS mode.
		LVB(T = 0:63bit.
		LVBIT = 1: 8-bit.(default)
ĽÝFMY \\	N02[4] \\\	8-bit input format select for LVDS mode.
		FMT = 0: VESA format.(default)
		LVFMT = 1: JEIDA format.
NBW	R02[6]	Normally black or normally white setting.
		NBW =1: Normally black.
		NBW =0: Normally white(default)

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R03h: Sy	ystem	Control	Register
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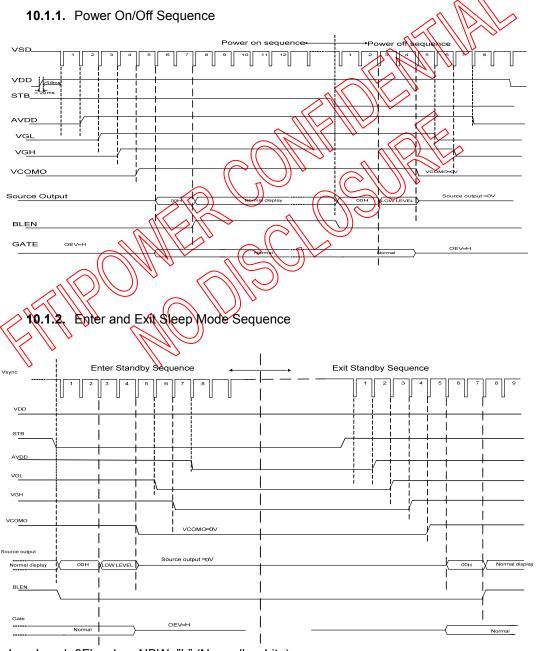
Designation	Address	Description								
SEL[1:0]	R03[1:0]	Gate on sec	uence sele	ct.						
		SEL[1]	SEL[0]	Pin control function						
	1 1 Z+2									
		1	0	Z						
		0	1	2						
		0	0	Z(default)						
FRAME	R03[2]	FRAME =1: FRAME =0:	Frame inverse or not select. FRAME =1: Uniform FRAME =0: Frame inverse(Default)							
REV	R03[3]	Controls wh	Controls whether the data of R[7:0]/G[7:0]/B[7:0] are inverted or not.							
		When REV=	When REV="0" these data will be inverted EX. "00"→" 3F", "07"→" 38", "15"→							
		"2A", and so	on.							

R16h/R	:17h/R18h/R19h: GIP Timing Control R	egister					
Address		Description	Default(hex)				
R16h		GipStvDly_Len[7:0]					
R17h		GIPStvDly_Len[12:8]	00h				
R18h		GipCkvDly_Len[7:0]					
R19h	_	GipCkvDly_Len[12:8]	00h				

10. FUNCTION DESCRIPTION

10.1. Power On/Off Sequence

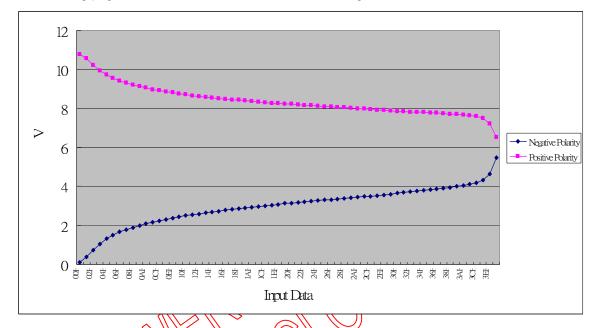
In order to prevent IC from power on reset fail, the rising time (TPOR) of the digital power supply VDD should be maintained within the given specifications. Refer to "AC Characteristics" for more detail on timing.



Note: Low Level=3Fh, when NBW="L" (Normally white) Low Level=00h, when NBW="H" (Normally Black)

10.2. 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: AVDD-0.1 > V1 > V2 > V3 > V4 > V5 > V6 > V7 × V8 > V9 > V10 > V11 > V12 > V13 > V14 > AGND+0.1V



Input Data and Output Voltage Reference Table @AVDD=11V

V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	Unit
10.78	10.569	8.708	8.213	7.866	7.243	6.51	5.49	4.63	3.653	3.146	2.493	0.373	0.11	V

	Data	Positive	Data	Positive
	00H	AVDD×0.980	20H	AVDD×0.747
	01H	AVDD×0.961	21H	AVDD×0.745
	02H	AVDD×0.930	22H	AVQD×0.743
	03H	AVDD×0.905	23H	AVDD>0.741
	04H	AVDD×0.885	2 2 H	AVDD×0.739
	05H	AVDD×0.870	25H	AVDD×0.737
	06H	AVDD×0.857	≥6H	AVDD×0.735
	07H	AVDD×0.847	27H	AWOD×0.732
	08H	AVDD×0.838	28H(\	AVDD×0.731
	09H	AVDD×0.830	(29H)	AVDD×0.729
	0AH	AVDD×0.923	(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	AVDD×0.727
	0BH	AVDD×0.816	2ВН	AVDD×0.725
	0CH	ANDONO.847	2CH	AVDD×0.723
	ODH	AVD0×0.806	2DH	AVDD×0.721
	//QEH	WDD×0.801	2EH	AVDD×0.719
1/2	// 9 / H//	AVDD×0.796	2FH	AVDD×0.717
	10H	AVDD×0.792	30H	AVDD×0.715
	11H	AVD0×0.788	31H	AVDD×0.713
•	12H	AVDD×0.784	32H	AVDD×0.711
	13H	AVDD×0.781	33H	AVDD×0.710
	14H	AVDD×0.778	34H	AVDD×0.709
	15H	AVDD×0.775	35H	AVDD×0.707
	16H	AVDD×0.772	36H	AVDD×0.706
	17H	AVDD×0.769	37H	AVDD×0.704
	18H	AVDD×0.766	38H	AVDD×0.702
	19H	AVDD×0.763	39H	AVDD×0.700
	1AH	AVDD×0.761	ЗАН	AVDD×0.697
	1BH	AVDD×0.758	3ВН	AVDD×0.694
	1CH	AVDD×0.756	3CH	AVDD×0.690
	1DH	AVDD×0.753	3DH	AVDD×0.681
	1EH	AVDD×0.751	3EH	AVDD×0.658
	1FH	AVDD×0.748	3FH	AVDD×0.592

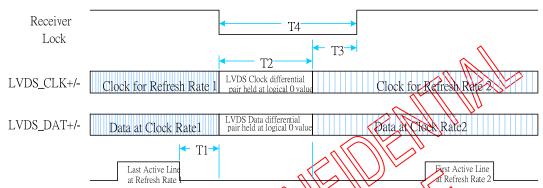
Data	Negative	Data	Negative
00H	AVDD×0.010	20H	AVDD×0.286
01H	AVDD×0.034	21H	AVDD×0.289
02H	AVDD×0.068	22H	AVDD×0.292
03H	AVDD×0.096	23H	AVDD×0.294
04H	AVDD×0.119	24H	AVDD×0.297
05H	AVDD×0.136	25H	AVDD×0.300
06H	AVDD×0.151	26H	AVD0×0/302
07H	AVDD×0.162	27H	AVQD×0,305
08H	AVDD×0.172	28H	AVDD*0.308
09H	AVDD×0.182	29H	AVDD×0.311
0AH	AVDD×0.189	[2AH	AVDD×0.314
0BH	AVDD×0.197	2BH	AV/DD×0.316
0CH	AVDD×0.204	2CH	AVDE ×0.318
0DH	AVDD×0.210	2DH \\\	AVD0×0.321
0EH	AVDD×0.215	2EH	AVDD×0.325
0FH	AVDD×0.221	2FH	AVDD×0.328
10H	AVDD×0.227	30H	AVDD×0.332
11H	AVRD+0.231	31H	AVDD×0.336
12H	AVDD×0.236	32H	AVDD×0.339
(13A)	AVDD×0.240	33H	AVDD×0.342
1/14/	AVDD×0 245	34H	AVDD×0.345
15/4/	AVD0×0.248	35H	AVDD×0.348
16H	AVRD 253	36H	AVDD×0.351
17H	AVD0×0.256	37H	AVDD×0.355
18H	AVDD×0.260	38H	AVDD×0.359
19H	AVDD×0.263	39H	AVDD×0.364
1AH	AVDD×0.266	3AH	AVDD×0.369
1BH	AVDD×0.270	3ВН	AVDD×0.375
1CH	AVDD×0.273	3CH	AVDD×0.382
1DH	AVDD×0.277	3DH	AVDD×0.394
1EH	AVDD×0.280	3EH	AVDD×0.421
1FH	AVDD×0.284	3FH	AVDD×0.499



10.4. SDRRS Function

SDRRS(seamless display refresh rate switching)

When Showing the still picture. it is accept to refresh rate from 60Hz to low refresh rate (for example 40Hz). The purpose is mainly for power saving. INTEL defined a timing chart switch between different refresh rate. Following this timing chart, the switch between different refresh rates is seamless for end user.



T1-Min delay from start of vertical blank to start of timing change:2 lines(H8YNC periods)

T2-Max delay for clock to transition to new frequency 100us

T3-Max receiver lock delay from stable clock Display specific

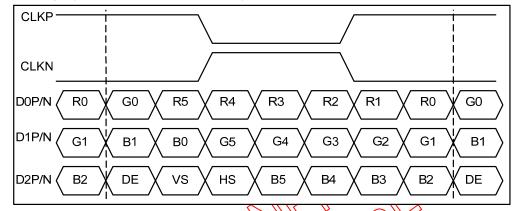
T4-Max period during which panel maintains display (T2+T3): Display specific



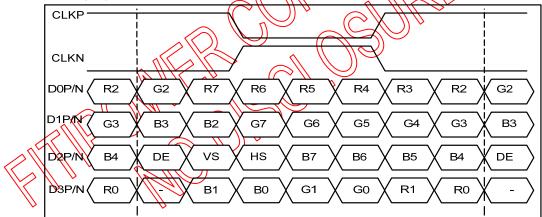
11. DATA INPUT FORMAT

11.1. Data Input Format for LVDS

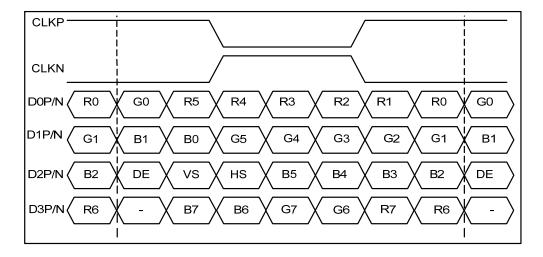
6-bit LVDS input(LVBIT="L",LVMT=Don't Care)



8-bit LVDS input(LVBIT="H",LVFMT="H")-JFIDA



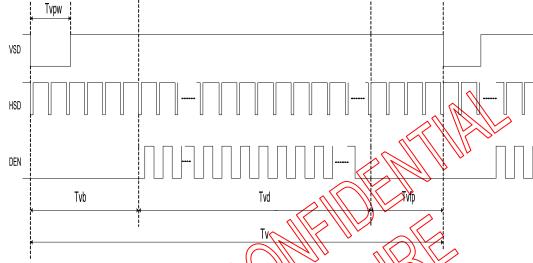
• 8-bit LVDS input(LVBIT="H",LVFMT="L")-VESA



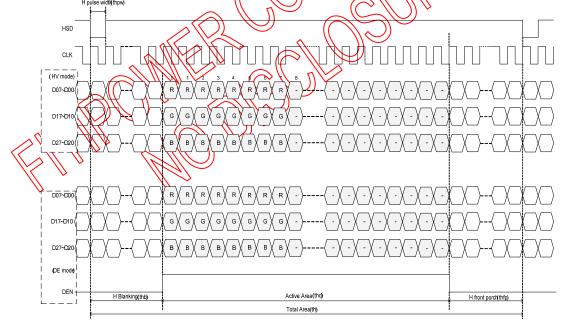
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11.1.1. Equivalent Data Input Format for LVDS











For 1024RGB x 768 panel DE mode

Parameter	Symbol		Unit		
Falanetei	Symbol	Min.	Тур.	Max.	Oill
DCLK frequency @Frame rate=60hz	fclk	52	65	71	Mhz
Horizontal display area	thd		1024	>	DCLK
HSYNC period time	th	1114	1344	1400	DCLK
HSYNC blanking	thb+thfp	90	320	336	DCLK
Vertical display area	Tvd	\ \ \	7 88/	1/11	Н
VSYNC period time	Tv	778	806	845	Н
VSYNC blanking	Tvb+Tvfp	10	38	77	Н

HV mode

Horizontal input timing

riorizoniai iriput tiiriirig	$\sim 111/M_{\odot}$	11 1	\sim // \sim		
Parameter	Symbol		Value		Unit
Horizontal display area	thd		1024		DCLK
DCLK frequency@ Frame rate=60hz	felk	Min	Тур.	Max.	
DOER requerity@ Frame rate-using		57	65	70.5	Mhz
1 Horizontal Line	thŋ\	1200	1344	1400	
Min			1		
HSYNG pulse width Typ.	thpw		_		DCLK
Max			140		DCLK
HSYNC blanking	thb	160	160	160	
HSYNC front porch	thfp	16	160	216	

HV mode

Parameter	Symbol			Unit		
Faiailletei	Symbol	Min.	Тур.	Max.	Offic	
Vertical display area	tvd		768		Н	
VSYNC period time	tv	792	806	840	Н	
VSYNC pulse width	tvpw	1	_	20	Н	
VSYNC back porch	tvb	23	23	23	Н	
VSYNC front porch	tvfp	1	15	49	Н	



Parameter	Symbol		Unit		
r ai ainetei	Symbol	Min.	Тур.	Max.	5
DCLK frequency @Frame rate=60hz	fclk	40.8	51.2	70.3	Mhz
Horizontal display area	thd		1024		DCLK
HSYNC period time	th	1114	1344	1464	DCLK
HSYNC blanking	thb+thfp	90	320	376	DCLK
Vertical display area	Tvd		600		Н
VSYNC period time	Tv	610	635	/// 800	Н
VSYNC blanking	Tvb+Tvfp	10	35	200	Н

HV mode

Horizontal input timing

Parameter	Symbol		Value		Unit
Horizontal display area	thal		1024		DCLK
DCLK frequency@ Frame rate≠66hz	fclk	Min.	Тур.	Max.	
DOEK frequency@ Frame rate 90012	ICIK (44.9	51.2	70.3	Mhz
1 Horizontal Line	th	200	1344	1464	
Min.	/n //	>	1		
HSYNC pulse width Typ:	th p w		_		DCLK
Max.			140		DCLK
HSYNC blanking	thb	160	160	160	
HSYNC front porch	thfp	16	160	216	

HV mode

Parameter	Symbol			Unit	
raiametei	Symbol	Min.	Тур.	Max.	Offic
Vertical display area	tvd		600		Н
VSYNC period time	tv	624	635	800	Н
VSYNC pulse width	tvpw	1		20	Н
VSYNC back porch	tvb	23	23	23	Н
VSYNC front porch	tvfp	1	12	177	Н



Parameter	Symbol		Unit		
r ai ainetei	Symbol	Min.	Тур.	Max.	5
DCLK frequency @Frame rate=60hz	fclk	32.6	39.6	62.4	Mhz
Horizontal display area	thd		800		DCLK
HSYNC period time	th	890	1000	1300	DCLK
HSYNC blanking	thb+thfp	90	200	500	DCLK
Vertical display area	Tvd		600		Н
VSYNC period time	Tv	610	660	/// 800	Н
VSYNC blanking	Tvb+Tvfp	10	60	200	Н

HV mode

Horizontal input timing

Parameter	Symbol		Value		Unit
Horizontal display area	that		800		DCLK
DCLK frequency@ Frame rate≠60hz	fclk	Min.	Тур.	Max.	
DOLK frequency@ Frame rate 20012) ICIK ((34.5	39.6	50.4	Mhz
1 Horizontal Line	ZtZ	900	1000	1200	
Min.		>	1		
HSYNC pulse width Typ	thpw		_		DCLK
Max.			40		DCLK
HSYNC blanking	thb	88	88	88	
HSYNC front porch	thfp	12	112	312	

HV mode

Parameter	Symbol		Unit			
Faiametei	Symbol	Min.	Тур.	Max.	Offic	
Vertical display area	tvd		600		Н	
VSYNC period time	tv	640	660	700	Н	
VSYNC pulse width	tvpw	1	_	20	Н	
VSYNC back porch	tvb	39	39	39	Н	
VSYNC front porch	tvfp	1	21	61	Н	



Parameter	Symbol		Value		Unit
r ai ametei	Symbol	Min.	Тур.	Max.	Offic
DCLK frequency @Frame rate=60hz	fclk	26.2	29.2	54.6	Mhz
Horizontal display area	thd		800		DCLK
HSYNC period time	th	890	928	1300	DCLK
HSYNC blanking	thb+thfp	90	128	500	DCLK
Vertical display area	Tvd		480		Н
VSYNC period time	Tv	490	525	700	Н
VSYNC blanking	Tvb+Tvfp	10	1/25	220	Н

HV mode

Horizontal input timing

Parameter	Symbol		Value		Unit
Horizontal display area	thal		860		DCLK
DCLK frequency@ Frame rate≠60hz	fclk	Min.	Тур.	Max.	
DCLK frequency@ Frame rate-50012) ICIK	27.7	29.2	39.6	Mhz
1 Horizontal Line	ZZ	900	928	1100	
Min.		>	1		
HSYNC pulse width Typ	th p w		_		DCLK
Max.			40		DCLK
HSYNC blanking	thb	88	88	88	
HSYNC front porch	thfp	12	40	212	

HV mode

Parameter	Symbol		Value		Unit
raiametei	Symbol	Min.	Тур.	Max.	Offic
Vertical display area	tvd		480		Н
VSYNC period time	tv	513	525	600	Н
VSYNC pulse width	tvpw	1	_	3	Н
VSYNC back porch	tvb	32	32	32	Н
VSYNC front porch	tvfp	1	13	88	Н



VOLTAGE (TA = 25°C, GND = AGND = GND_IF = 0V)

	Min.	Max.	Unit
Digital Supply Voltage, VDD	-0.3	+2.0	V
Analog Supply Voltage, AVDD, V1~V14	-0.5	+15.0	V

TEMPERATURE

	Min.	Max.	Unit	
Operating temperature	-20	+85	°C,\	
Storage temperature	-55	+125	1601	11/2/20



13. RECOMMENDED OPERATING RANGE

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

Parameter	Symbol	Min.	Тур.	Max.	Unit
Digital supply voltage	VDD	1.71	1.8	1.89	V
MIPI/LVDS supply voltage	VDD_IF	1.71	1.8	1.89	V
Analog supply voltage	AVDD	8	-	13.5	V





14.1. Basic DC Characteristic

(VDD=VDD_IF=1.8V, AVDD=8 to 13.5V, GND=AGND=GND_IF=0V)

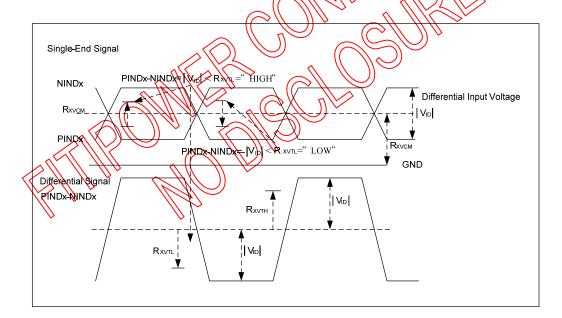
Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Low level input voltage	Vil	For the digital circuit	0	ı	0.3×VDD	V
High level input voltage	Vih	For the digital circuit	0.7×VDD	A	VDD	V
Input leakage current	li	For the digital circuit			∕ ±1	μΑ
High level output voltage	Voh	loh= -400 μA	VDD-0.4	Mr. o.	-	V
Low level output voltage	Vol	Iol= +400 μA		-	GND+0.4	V
Pull low/high resistor	Ri	For the digital input pin VDD_IF=1.8V	200K	250K	300K	ohm
Digital Operation current	ldd	Fclk=51.2MHz, VDD=VDD_IF=1.80		TBD	-	mA
Digital Stand-by current	lst1	Clock and all functions are stopped		10	50	μΑ
Analog Operating Current	ldda	No Toad, Fclk=51.2MHz,	-	10	12	mA
Analog Stand-by current	Ist2	No load, clock and all functions are stopped	-	10	50	μΑ
Input level of V1 ~ \times \tag{7}	Vret	Gamma correction voltage input	0.4*AVDD	-	AVDD-0.1	V
Input level of V8 V14	vref2	Gamma correction voltage input	0.1	-	0.6*AVDD	V
Output Voltage deviation	Vod	Vo = AGND+0.1V ~ AGND+0.5V and Vo = AVDD-0.5V ~ AVDD-0.1V	-	±20	±35	mV
Output Voltage deviation	Vod2	Vo = AGND+0.5V ~ AVDD-0.5V	-	±15	±20	mV
Output Voltage Offset between Chips	Voc	Vo = AGND+0.5V ~ AVDD-0.5V	-	-	±20	mV
Dynamic Range of Output	Vdr	SO1 ~ 1536	0.1	-	AVDD-0.1	V
Sinking Current of Outputs	IOLy	SO1 ~ 1536; Vo=0.1V v.s 1.0V , AVDD=13.5V	80	-	-	uA
Driving Current of Outputs	ЮНу	SO1 ~ 1536; Vo=13.4V v.s 12.5V , AVDD=13.5V	80	-	-	uA
Resistance of Gamma Table	Rg	Rn: Internal gamma resistor	0.7*Rn	1.0*Rn	1.3*Rn	ohm



LVDS DC Characteristic(TBD)

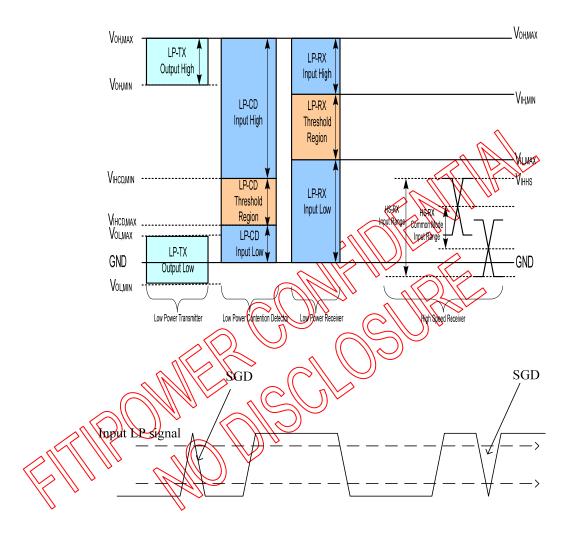
(VDD=VDD_IF=1.8V,AVDD=8 to 13.5V,GND=AGND=GND_IF=0V,TA=-20 $^{\circ}$ C to 85 $^{\circ}$ C)

Deremeter	Cumple of	N Alian	T	Max	1.1	Candition
Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Differential input high threshold	RxVTH	-	0.2	-	V	RxVCM=1.2V
voltage					-	
Differential input low threshold	R_{xVTL}	-	-0.2	-	V	
voltage						
Input voltage range(single-end)	RxVIN	0	-	1.8	V	\land
Differential input common mode	RxVCM	$ V_{ID} /2$	1.2	1.8 - V _{ID} /2	V	
voltage						
Differential input voltage	V ID	0.2	0.4	0.6		
Differential input leakage current	ILCLVDS	-10	-	+10	//x A	170
LVDS digital operating current	Iddlyds	-	20	- ()	ALA .	Fclk=51.2Mhz,
						VDD=1.8V
LVDS digital standby current	ISTLVDS	-	10)	/// -/// /	uA	Clock & all
-						functions are stop
Differential input impedance	ZID	70 🕥	100	130	ohm	





Parameter	Symbol	Min.	Тур.	Max.	Unit
	MIPI Characterist		peed Receiver		
Single-ended input low voltage (DSI-CLKP/N,DSI-DnP/N)	VILHS	-40	-	-	mV
Single-ended input high	VIHHS	-	-	460	mV
voltage					
(DSI-CLKP/N,DSI-DnP/N)					
Input Common-mode voltage	Vcdrxdc	70	-	330	mV
(DSI-CLKP/N,DSI-DnP/N)					
Differential input impedance	ZID		100		ohm
HS transmit differential	Vod	140	200	250	mV
voltage(VOD=VDP-VDN)				V	
Low-level differential input	VTHLCLK	-70		-	mV
voltage threshold	VTHLDATA				
High-level differential input	VTHHCLK	~\\\		-	mV
voltage threshold	VTHHDATA			\diamond	
Single-ended threshold	VTERN_EN			450	mV
voltage for termination				<u> </u>	
Termination capacitor	CTERM			14	pf
Input voltage common mode	VCMRCLK	-50		50	mV
variation(<=450Mhz)	WOMPDATAL	(($\mathbb{N}_{\mathcal{O}}$		
Input voltage common mode 🔨	VCMRCLKM))	100	mV
variation(>=450Mhz)	VCMRDATAM				
	MIPI Characteri		Power Mode		
Pad signal voltage range	V /	-50	-	1350	mV
Ground shift	VGNDSH///	-50	-	50	mV
Logic 0 input threshold	W/ //	0	-	550	mV
Logic 1 input threshold	\\VIH\\	880	-	1350	mV
Logic o input voltage	VILUPRXULP	0	-	300	mV
LPRX(CLK, ULP mode)	110				
Input hysteresis	VHYST	25	-	-	mV
Output low level	Vol	-50	-	50	mV
Output high level	Voh	1.1	1.2	1.3	V
Output impedance of Low	ZOLP	90	100	110	ohm
Power Transmitter					
Logic 0 contention threshold	VILCD,MAX	1	-	200	mV
Logic 0 contention threshold	VIHCD,MIN	450	-	1350	mV
Logic high level input current	liн	-	-	10	uA
Logic low level input current	lıL	-10	-	-	uA
Input pulse rejection	SGD	-	-	300	Vps
(DSI-CLKP/N,DSI-DnP/N)					



14.4. Power Block DC Characteristic

(VDD=VDD_IF=1.8V, AVDD=8 to 13.5V, GND=AGND=GND_IF=0V,TA=-20 to +85°C)

· /	,		_	,	- ,	
Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Base drive current for PWM	IDRV	-	-	60	mA	DRVA =0.7V
DRV output voltage for PWM	VDRV	0	-	VDD	V	
Feedback voltage for PWM	VFB	1.1	1.2	1.3	V	
Duty cycle maximum	Dmax	-	-	85	%	
VCOM buffer input voltage	VCOMI	1	-	AVDD	V	
VCOM buffer output voltage	VCOMO	VCOMI-0.2	VCOMI	VCOMI+0.2	V	
VCOM buffer output current	IVCOM	-	-	10	mA	VCOMO=5V vs
						4.9V

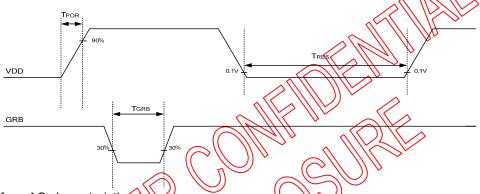


15.1. Basic AC Characteristic

(VDD=VDD_IF=1.8V, AVDD=8 to 13.5V, GND=AGND=GND_IF=0V,TA=-20 to $+85^{\circ}$ C)

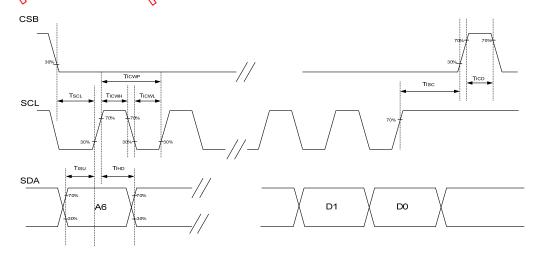
VDD/GRB AC characteristic

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
VDD power slew rate	Tpor	-	-	20	ms	From 0 to 90% VDD
GRB active pulse width	T _{GRB}	1	-	-	ms	VDD=VDD_IF=1.8V
VDD resettle time	Tres	1	-	-	S	



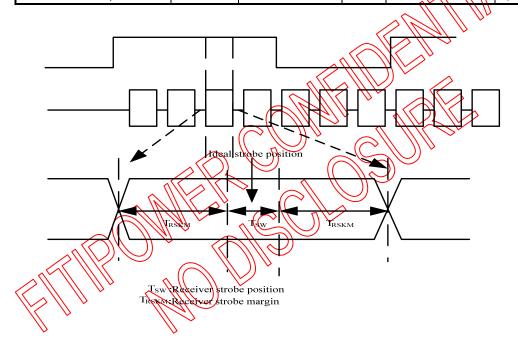
3-wire interface AC characteristics

3-WITE ITTETTACE AC CHATACTETTS!	6/ \ <u>`</u>				
Parameter	Symbol	Min.	Тур.	Max.	Unit
CSB falling to SCL rising time	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	200	√ -	-	ns
SCL pulse high period	Ticwh ((100)	_	-	ns
SCL pulse low period	Ticyk	100	-	-	ns
SCL pulse width	Ticwe	<u>\\\\25</u> 0	-	-	ns
SDA data input setup time	TIŞU \	<i>)</i>) ~100	-	-	ns
SDA data input hold time	(// TiAb	100	-	-	ns
SCL to CSB rising time	THE	250	-	-	ns
CSB rising to failing time	TICD	1	-	-	us





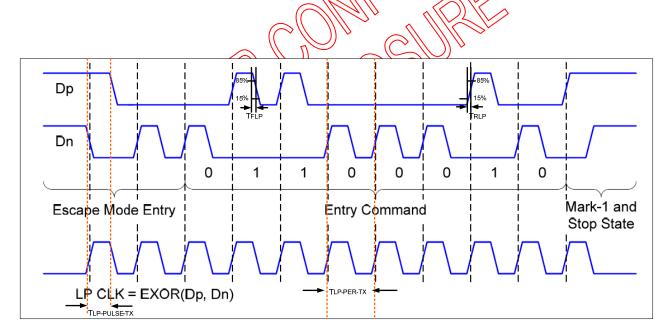
Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Clock Frequency	RxFCLK		20	-	71	MHz
Input data skew margin	Trskm	VID =400mV RxVCM=1.2V RxFCLK=71MHz	500			ps
Clock High Time	TLVCH			4/(7* RxFCLK)		ns
Clock High Hine	TEVOIT			4/(/ TXFCLR)		ns
Clock Low Time	TLVCL			3/(7* RxFCLK)		ns
PLL wake-up-time	TenPLL				3 50	us





15.3.1. LP Transmitter AC Specification

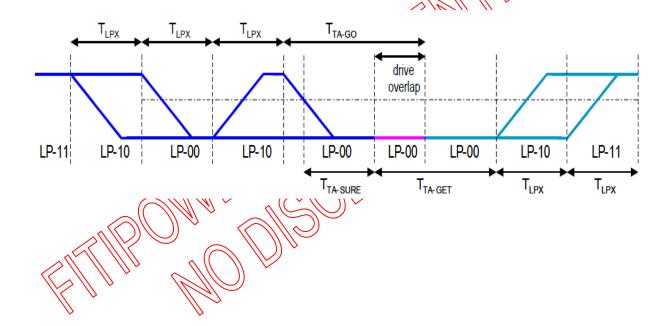
Parameter		Symbol	Min	Тур	Max	Units	Notes
15%~85% risir	ng time and falling time	TRLP /TFLP	-	-	25	ns	-
30%~85% risir	ng time and falling time	TREOT	-	-	35	ns	-
Pulse width	First LP EXOR clock						-
of LP	pulse after STOP state or				9		
exclusive-OR	Last pulse before stop	TLP-PULSE-TX	40	-	- 🔝	\\ ns	
clock	state				$U p_{\infty}$		
	All other pulses		20	- <		∕ \\ns	-
Period of the L	P EXOR clock	T _{LP-PER-TX}	90	7	/ //- ///	mV/ns	-
Slew Rate @C	CLOAD =0pF		30		5000	mV/ns	-
Slew Rate @C	CLOAD =5pF	δ V / δ t sr	30		200	mV/ns	-
Slew Rate @C	CLOAD =20pF		30		150	mV/ns	-
Slew Rate @C	CLOAD =70pF		30\\\	())	√ 100	mV/ns	-
Load Capacita	nce	TRLP		V	7 0	pF	-



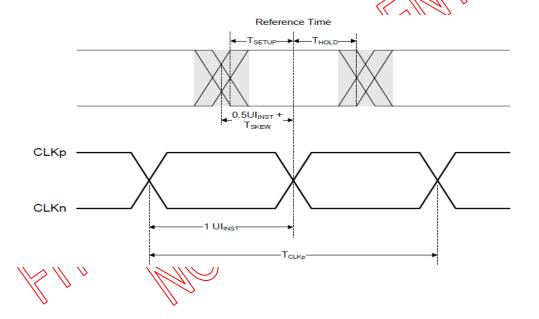
15.3.2. Turnaround Procedure

Turnaround Procedure Operation Timing Parameters

Parameter	Symbol	Min	Тур	Max	Units
Length of any Low-Power state period: Master side	T _{LPX}	50	-	75	ns
Length of any Low-Power state period: Slave side	T _{LPX}	50	55.56	58.34	ns
Ratio of TLPX(Master)/ TLPX (Slave) between Master	Ratio	2/3	-	3/2	
and Slave side	T _{LPX}				
Time-out before new TX side start driving	T _{TA-Sure}	T_{LPX}	-	2T _{LPX}	ns
Time to drive LP-00 by new TX	T _{TA-GET}	1	5TLPX		ns
Time to drive LP-00 after Turnaround Request	T _{TA-GO}	-	ATL _{RX} \		ns

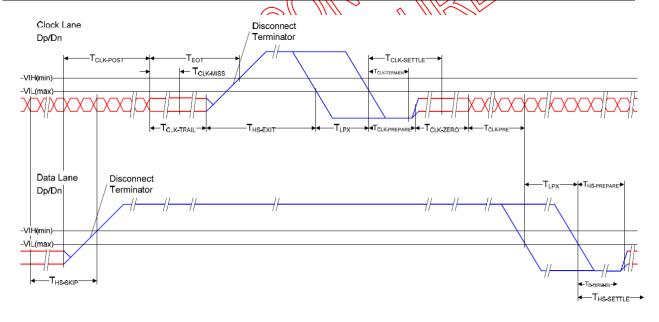


Parameter	Symbol	Min	Тур	Max	Units
UI instantaneous	UIINST	2	-	12.5	ns
Data to Clock	Tskew(tx)	-0.15	-	0.15	UIINST
Skew(measured at					
transmitter)					
Data to Clock Setup	TSETUP(RX)	0.15	-	-	UIINST
time(measured at receiver)					
Data to Clock Hold	THOLD(RX)	0.15	-		UIINST
time(measured at receiver)					
20%~80% rise time and fall	T _R , T _F	150	-		ps
time		-	- (0.3	UIINST



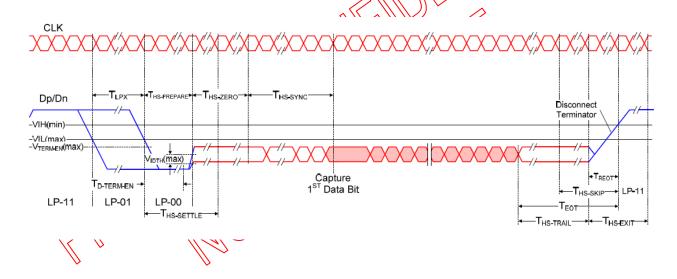
fitipower 15.3.4. High Speed Clock Transmission

Parameter	Symbol	Min	Тур	Max	Units
Time that the transmitter shall continue sending	TCLK-POST	60+52UI	-	-	ns
HS clock after the last associated Data Lane has					
transitioned to LP mode					
Detection time that the clock has stopped	TCLK-MISS	-	-	60	ns
toggling					
Time to drive LP-00 to prepare for HS clock	TCLK-PREPARE	38	-	95	ns
transmission			. <		
Minimum lead HS-0 drive period before starting	TCLK-PREPARE	300	W-2	\\\	ns
clock	+ TCLK-ZERO		$\langle \rangle$		
Time to enable Clock Lane receiver line	THS-TERM-EN	- 1/2	// -///	38	ns
termination measured from when Dn cross			1 11 112		
V _{IL,MAX}			4/ "		
Minimum time that the HS clock must be prior to	TCLK-PRE	1/8/	-	-	UI
any associated data lane beginning the					
transmission from LP to HS mode					
Time to drive HS differential state after last	TCLK-TRAIL \	60		-	ns
payload clock bit of a HS transmission burst					



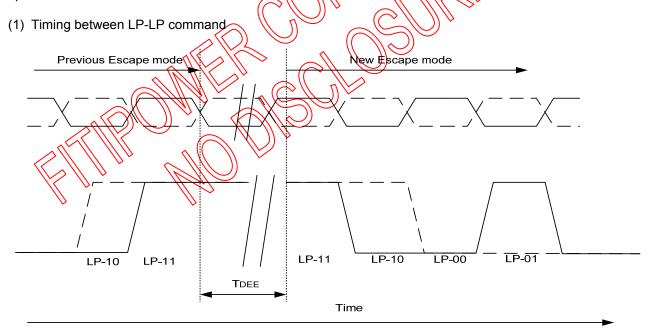


Parameter	Symbol	Min	Тур	Max	Units
Time to drive LP-00 to prepare for HS transmission	T _{HS-PREPARE}	40+4UI	-	85+6UI	ns
Time from start of $t_{\text{HS-TRAIL}}$ or $t_{\text{CLK-TRAIL}}$ period to start of LP-11 state	T _{EOT}	-	-	105+12UI	ns
Time to enable Data Lane receiver line termination measured from when Dn cross V _{IL,MAX}	T _{HS-TERM-EN}	-	-	35+4UI	ns
Time to drive flipped differential state after last	T _{HS-TRAIL}	60+4UI	-	٠ -	ns
payload data bit of a HS transmission burst			^		
Time-out at RX to ignore transition period of EoT	T _{HS-SKIP}	40	11 00	\$5+4UI	ns
Time to drive LP-11 after HS burst	T _{HS-EXIT}	100	~~		ns
Length of any Low-Power state period	T_{LPX}	50 📏	//-//	\ -	ns
Sync sequence period	T _{HS-SYNC}	20	// 8¢// /	-	ns
Minimum lead HS-0 drive period before the Sync	T _{HS-ZERO}	105+6UN	11-0	-	ns
sequence			\		



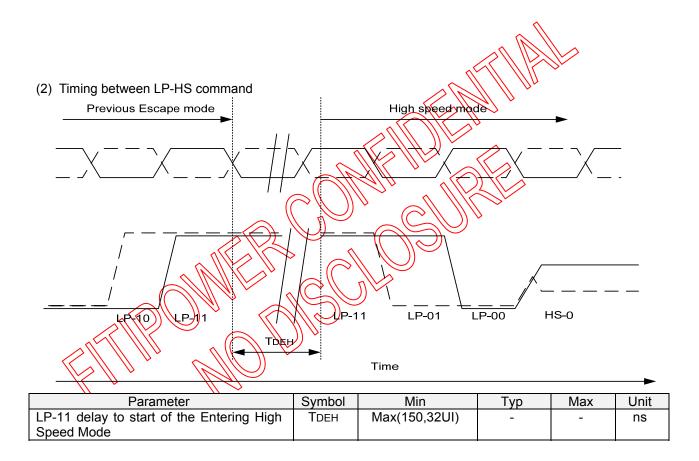
15.3.6. LP11 timing request between data transformation

When Clock lane of DSI TX chip always keeps High speed mode, then Clock lane never go back to Low power mode. If Date lane of TX chip needs to transmit the next new data transmission or sequence, after the end of Low power mode or High speed mode or BTA. Then TX chip needs to keep LP-11 stop state before the next new data transmission, no matter in Low power mode or High speed mode or BTA. The LP-11 minimum timing is required for RX chip in the following 9 conditions, include of LP-LP, LP-HS, HS-LP, HS-BTA-BTA, LP-BTA, BTA-LP, HS-BTA and BTA-HS This rule is suitable for short or long packet between TX and RX data transmission.

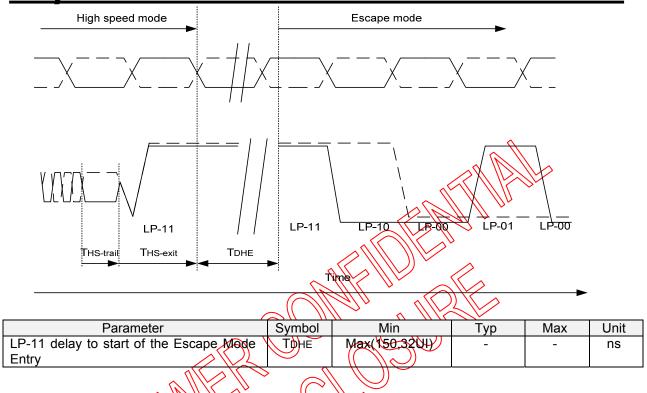


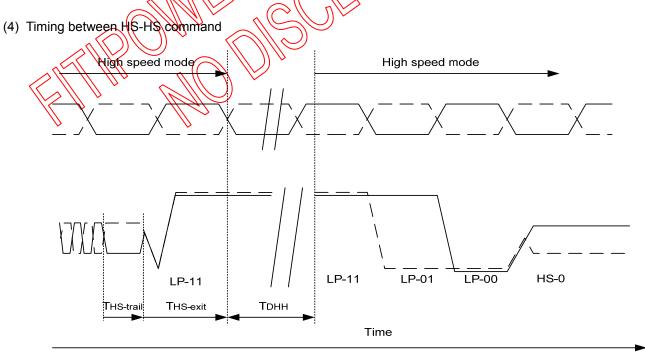
Parameter	Symbol	Min	Тур	Max	Unit
LP-11 delay to start of the new Escape Mode Entry	TDEE	150	-	-	ns

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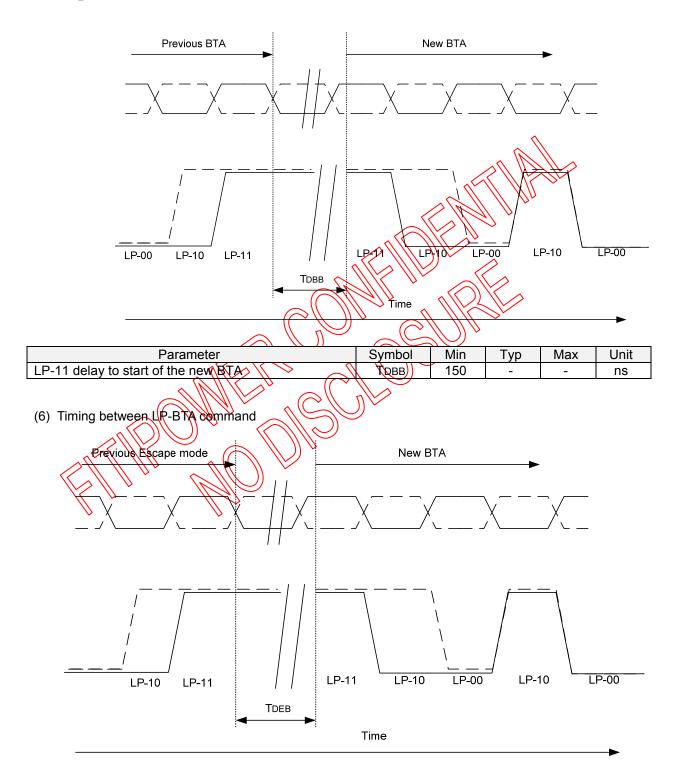


(3) Timing between HS-LP command





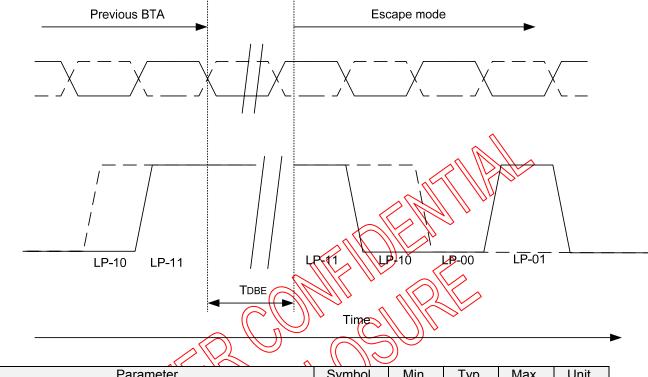
Parameter	Symbol	Min	Тур	Max	Unit
LP-11 delay to start of the Entering High	Трнн	Max(150,32UI)	-	-	ns
Speed Mode		, ,			



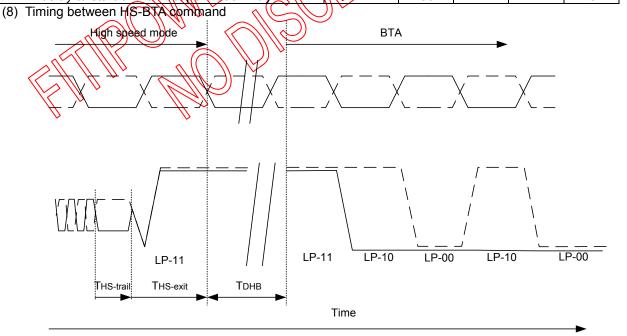
Parameter	Symbol	Min	Тур	Max	Unit
LP-11 delay to start of the new BTA	TDEB	150	-	-	ns



EK79007

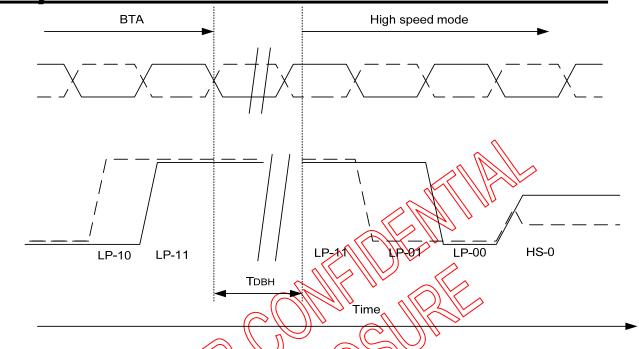


Parameter	Symbol	Min	Тур	Max	Unit
LP-11 delay to start of the Escape Mode Entry	TOBE	150	-	-	ns



Parameter	Symbol	Min	Тур	Max	Unit
LP-11 delay to start of the BTA	TDHB	Max(150,32UI)	-	-	ns

(9) Timing between BTA-HP command



Parameter	Symbol	Min	Тур	Max	Unit
LP-11 delay to start of the Entering High	TDBH	Max(150,32UI)	-	-	ns
Speed Mode					

15.4. Output Timing Table

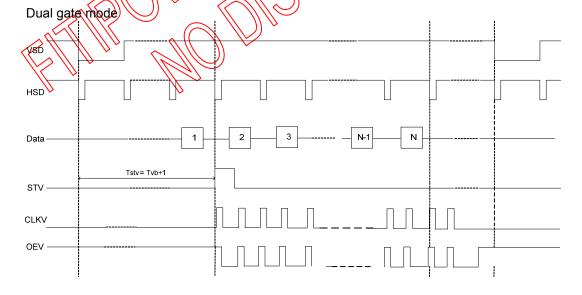
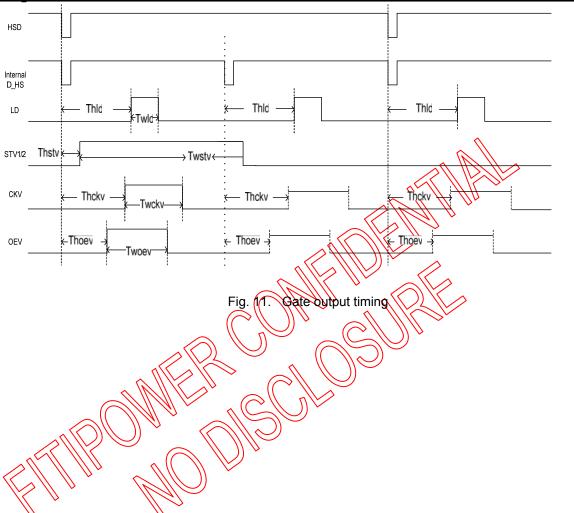
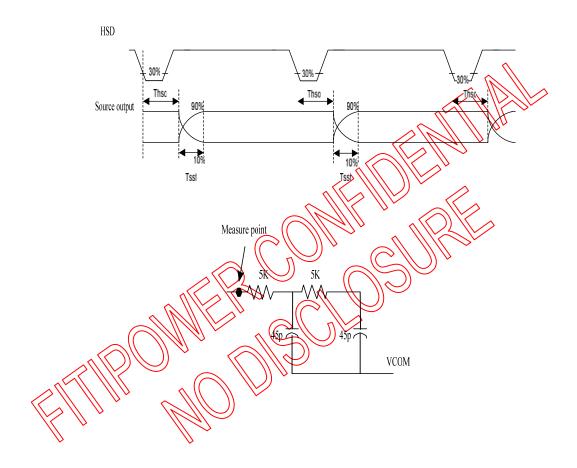


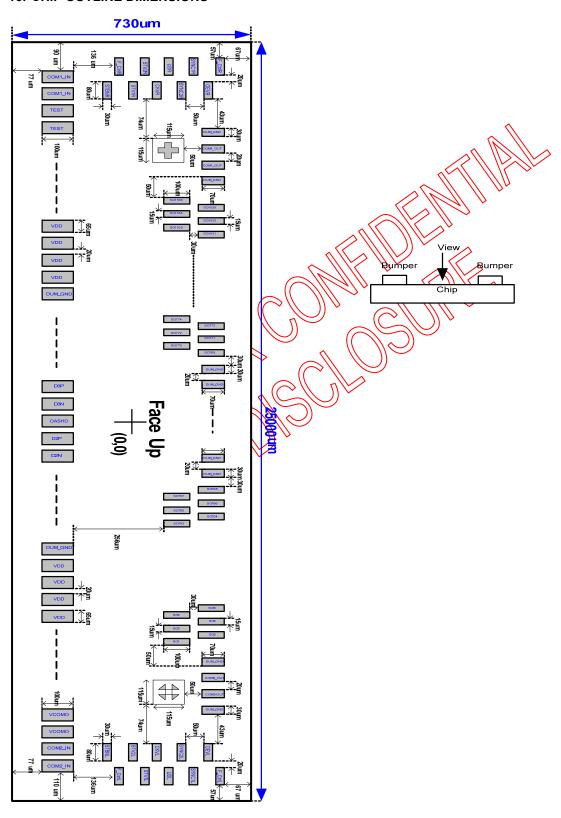
Fig. 11. Vertical output timing



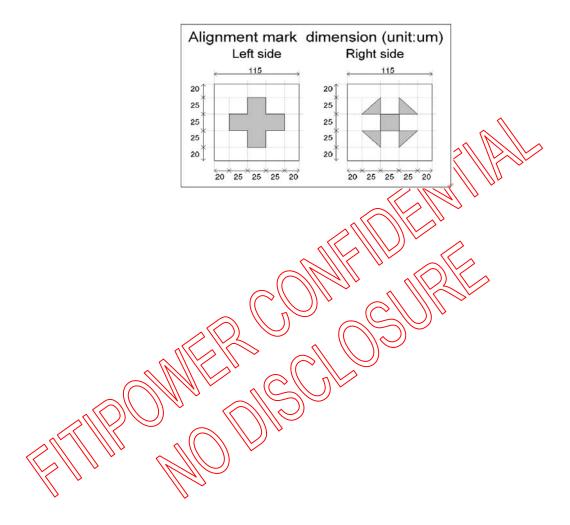
Analog output AC characteristic

Parameter	Symbol	Min.	Тур.	Max	Unit
Source Driver output stable time	Tsst	-	3	-	μ s





16.1. Alignment Mark



17. PAD COORDINATE

Pad	Text Name	CX	CY
1	COM1_IN	-12377.5	-238
2	COM1 IN	-12292.5	-238
3	TP1	-12207.5	-238
4	TP2	-12122.5	-238
5	TP3	-12037.5	-238
6	TP4	-11952.5	-238
7	SHIELDING	-11867.5	-238
8	AGND	-11782.5	-238
9	AGND	-11697.5	-238
10	AGND	-11612.5	-238
11	AGND	-11527.5	-238
12	SHIELDING	-11442.5	-238
13	AVDD	-11357.5	-238
14	AVDD	-11272.5	-238
15	AVDD	-11187.5	-238
16	AVDD	-11102.5	-238
17	SHIELDING	-11017.5	-238
18	GND	-10932.5	-238
19	GND	-10847.5	-238
_			
20	GND	-10762.5	-238
21	GND	-10677.5	-238
22	SHIELDING	-10592.5	-238
23	VDD	-10507.5	-238
24	VDD	-10422.5	-238
25	VDD	-10337.5	-238
26	VDD	-10252.5	-238
27	SHIELDING	-10167.5	-238
28	TP5	-10082.5	-238
29	TP6	-9997.5	-238
30	TP7	-9912.5	<i>-</i> 238\
31	TP8	-9827.5	(238
31 32			+
	TP8	-9827.5 -9742.5	238 -238
32 33	TP8 TP9 TP10	-9827.5 -9742.5 -9657.5	238 238 -238
32 33 34	TP8 TP9 TP10 TP11	-9827.5 -9742.5 -9657.5 -9672.5	238 -238 -238 -238
32 33 34 35	TP8 TP9 TP10 TP11 TP12	-9827.5 -9742.5 -9657.5 -9672.5	-238 -238 -238 -238 -238
32 33 34 35 36	TP8 TP9 TP10 TP11 TP12 TP13	-9827.5 -9742.5 -96\$7.5 -9672.5 -9487.5	-238 -238 -238 -238 -238 -238
32 33 34 35 36 37	TP8 TP9 TP10 TP11 TP12 TP13 TP14	-9827.5 -9742.5 -9657.5 -9872.5 -9487.5 -9817.5	-238 -238 -238 -238 -238 -238 -238
32 33 34 35 36 37 38	TP8 TP9 TP10 TP11 TP12 TP13 TP14 SHIELDING	-9827.5 -9742.5 -9657.5 -9872.5 -9487.5 -9402.6 -9317.5 -9232.5	-238 -238 -238 -238 -238 -238 -238 -238
32 33 34 35 36 37	TP8 TP9 TP10 TP11 TP12 TP13 TP14	-9827.5 -9742.5 -9657.5 -9872.5 -9487.5 -9817.5	-238 -238 -238 -238 -238 -238 -238
32 33 34 35 36 37 38	TP8 TP9 TP10 TP11 TP12 TP13 TP14 SHIELDING	-9827.5 -9742.5 -9657.5 -9872.5 -9487.5 -9402.6 -9317.5 -9232.5	-238 -238 -238 -238 -238 -238 -238 -238
32 33 34 35 36 37 38 39	TP8 TP9 TP10 TP11 TP12 TP13 TP13 SHIELDING	-9827.5 -9742.5 -965 χ.5 -98 χ.5 -948 χ.5 -9317.5 -9232.5 -9147.5 -9062.5	-238 -238 -238 -238 -238 -238 -238 -238
32 33 34 35 36 37 38 39 40	TP8 TP9 TP10 TP11 TP12 TP13 TP13 TP14 SHECDING DIMI DIMI NBW	-9827.5 -9742.5 -9657.5 -9672.6 -9487.5 -9402.6 -9317.5 -9232.5 -9147.5 -9062.5 -8977.5	-238 -238 -238 -238 -238 -238 -238 -238
32 33 34 35 36 37 38 39 40 41 42	TP8 TP9 TP10 TP11 TP12 TP13 TP14 SHECDING DIMI NBW NBW	-9827.5 -9742.5 -9657.5 -9657.5 -9487.5 -9402.6 -9317.5 -9232.5 -9147.5 -9062.5 -8977.5 -8892.5	(238 238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
32 33 34 35 36 37 38 39 40 41 42 43	TP8 TP9 TP10 TP11 TP12 TP13 TP13 TP14 SHECDING DIMI NBW NBW PINCTL	-9827.5 -9742.5 -9872.5 -9487.5 -9487.5 -9487.5 -932.5 -9232.5 -9147.5 -9062.5 -8977.5 -8892.5 -8807.5	238 -238 -238 -238 -238 -238 -238 -238 -
32 33 34 35 36 37 38 39 40 41 42 43	TP8 TP9 TP10 TP11 TP12 TP13 TP13 SHECDING DIMI DIMI NBW NBW PINCTL PINCTL	-9827.5 -9742.5 -9657.5 -9657.5 -9487.5 -9487.5 -9232.5 -9147.5 -962.5 -8977.5 -8892.5 -8807.5 -8722.5	(238 238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
32 33 34 35 36 37 38 39 40 41 42 43 44	TP8 TP9 TP10 TP11 TP12 TP13 TP14 SHECDING DIMI DIMI NBW NBW PINCTL PINCTL SHIELDING	-9827.5 -9742.5 -9657.5 -9657.5 -9487.5 -9487.5 -9232.5 -9147.5 -9062.5 -8977.5 -8892.5 -8892.5 -8807.5 -8637.5	(238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	TP8 TP9 TP10 TP11 TP12 TP13 TP14 SHECDING DIMI DIMI NBW NBW PINCTL PINCTL SHIELDING DIMO	-9827.5 -9742.5 -9657.5 -948.5 -948.5 -948.5 -9347.5 -9232.5 -9147.5 -9062.5 -8977.5 -8892.5 -8807.5 -8637.5 -8552.5	(238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
32 33 34 35 36 37 38 39 40 41 42 43 44	TP8 TP9 TP10 TP11 TP12 TP13 TP14 SHECDING DIMI DIMI NBW NBW PINCTL PINCTL SHIELDING	-9827.5 -9742.5 -9657.5 -9657.5 -9487.5 -9487.5 -9232.5 -9147.5 -9062.5 -8977.5 -8892.5 -8892.5 -8807.5 -8637.5	(238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	TP8 TP9 TP10 TP11 TP12 TP13 TP14 SHECDING DIMI DIMI NBW NBW PINCTL PINCTL SHIELDING DIMO	-9827.5 -9742.5 -9657.5 -948.5 -948.5 -948.5 -9347.5 -9232.5 -9147.5 -9062.5 -8977.5 -8892.5 -8807.5 -8637.5 -8552.5	(238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	TP8 TP9 TP10 TP11 TP12 TP13 TP14 SHELDING DIMI NBW NBW NBW PINCTL PINCTL SHIELDING DIMO DIMO	-9827.5 -9742.5 -965 X.5 -98 X.5 -948 6 -9402.5 -9317.5 -9232.5 -9147.5 -9062.5 -8977.5 -8892.5 -8807.5 -8722.5 -8637.5 -8552.5 -8467.5 -8382.5	(238 238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	TP8 TP9 TP10 TP11 TP12 TP18 TP18 TP18 TP18 TP18 TP18 TP18 TP18	-9827.5 -9742.5 -9872.5 -9487.5 -9487.5 -9487.5 -9317.5 -9232.5 -9147.5 -9062.5 -8977.5 -8892.5 -8872.5 -8637.5 -8637.5 -8552.5 -8467.5 -8382.5 -8382.5 -8382.5	(238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	TP8 TP9 TP10 TP11 TP12 TP13 TP13 TP13 TP13 TP13 TP13 TP13 TP13	-9827.5 -9742.5 -9657.5 -9487.5 -9487.5 -9487.5 -9232.5 -9147.5 -9062.5 -8977.5 -8892.5 -8807.5 -8637.5 -8637.5 -8467.5 -8467.5 -8382.5 -8382.5 -8382.5 -8297.5 -8297.5	(238 -238
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	TP8 TP9 TP10 TP11 TP12 TP13 TP14 SHECDING DIMI DIMI NBW PINCTL PINCTL SHIELDING DIMO DIMO SHIELDING DITHER DITHER HFRC	-9827.5 -9742.5 -9657.5 -9657.5 -9657.5 -9487.5 -9487.5 -9232.5 -9147.5 -9062.5 -8977.5 -8977.5 -8892.5 -8637.5 -8637.5 -8467.5 -8467.5 -8382.5 -8297.5 -8297.5 -8212.5 -8127.5	(238 238 -238
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	TP8 TP9 TP10 TP11 TP12 SHECDING DIMI DIMI NBW PINCTL PINCTL SHIELDING DIMO DIMO DIMO DITHER HFRC HFRC	-9827.5 -9742.5 -9657.5 -9657.5 -9657.5 -9487.5 -9487.5 -9232.5 -9147.5 -9062.5 -8977.5 -8892.5 -8807.5 -8637.5 -8552.5 -8467.5 -8382.5 -8297.5 -8212.5 -8212.5 -8127.5 -8042.5	(238 238 -
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	TP8 TP9 TP10 TP11 TP12 TP13 TP13 TP13 TP14 SHELDING DIMI NBW NBW NBW PINCTL PINCTL SHIELDING DIMO DIMO SHIELDING DITHER DITHER HFRC HFRC TP15	-9827.5 -9742.5 -9657.5 -9657.5 -9657.5 -9402.5 -9347.5 -9147.5 -9147.5 -9062.5 -8977.5 -8892.5 -8807.5 -8722.5 -8637.5 -8552.5 -8467.5 -8382.5 -8212.5 -8212.5 -8127.5 -8042.5 -7957.5	(238 238 -
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	TP8 TP9 TP10 TP11 TP12 TP13 TP13 SHECDING DIMI NBW NBW NBW PINCTL PINCTL SHIELDING DIMO DIMO DIMO DITHER DITHER HFRC HFRC TP15 TP16	-9827.5 -9742.5 -9657.5 -9657.5 -9657.5 -948.7 -948	(238 238 -
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	TP8 TP9 TP10 TP11 TP12 TP13 TP14 SHELDING DIMI NBW NBW PINCTL PINCTL SHIELDING DIMO DIMO SHIELDING DITHER DITHER HFRC HFRC TP15 TP16 FRAME	-9827.5 -9742.5 -9657.5 -9657.5 -9657.5 -9487.5 -9487.5 -9232.5 -9147.5 -9232.5 -9147.5 -8892.5 -8807.5 -8892.5 -8637.5 -8637.5 -8467.5 -8467.5 -8422.5 -8297.5 -8212.5 -8212.5 -8212.5 -7957.5 -7957.5 -7872.5 -7787.5	(238 238 -
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	TP8 TP9 TP10 TP11 TP12 TP13 TP13 SHECDING DIMI NBW NBW NBW PINCTL PINCTL SHIELDING DIMO DIMO DIMO DITHER DITHER HFRC HFRC TP15 TP16	-9827.5 -9742.5 -9657.5 -9657.5 -9657.5 -948.7 -948	(238 238 -
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	TP8 TP9 TP10 TP11 TP12 TP13 TP14 SHELDING DIMI NBW NBW PINCTL PINCTL SHIELDING DIMO DIMO SHIELDING DITHER DITHER HFRC HFRC TP15 TP16 FRAME	-9827.5 -9742.5 -9657.5 -9657.5 -9657.5 -9487.5 -9487.5 -9232.5 -9147.5 -9232.5 -9147.5 -8892.5 -8807.5 -8892.5 -8637.5 -8637.5 -8467.5 -8467.5 -8422.5 -8297.5 -8212.5 -8212.5 -8212.5 -7957.5 -7957.5 -7872.5 -7787.5	(238 238 -
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	TP8 TP9 TP10 TP11 TP12 TP13 TP14 SHE DING DIMI NBW NBW PINCTL PINCTL SHIELDING DIMO SHIELDING DITHER HFRC TP15 TP16 FRAME FRAME	-9827.5 -9742.5 -9347.5 -9487.5 -9487.5 -9487.5 -9487.5 -9232.5 -9147.5 -9232.5 -8407.5 -8892.5 -8807.5 -8637.5 -8637.5 -8467.5 -8467.5 -8467.5 -8422.5 -8297.5 -8212.5 -8127.5 -842.5 -7977.5 -7977.5 -7787.5 -7787.5	(238 238 -
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	TP8 TP9 TP10 TP11 TP12 TP13 TP13 TP13 TP13 SHECDING DIMI DIMI NBW NBW PINCTL PINCTL SHIELDING DIMO DIMO DIMO DITHER HFRC HFRC TP15 TP16 FRAME FRAME FRAME SEL[0] SEL[0]	-9827.5 -9742.5 -9742.5 -9657.5 -9657.5 -9657.5 -9487.5 -9487.5 -9232.5 -9147.5 -9232.5 -9147.5 -8977.5 -8892.5 -8892.5 -8892.5 -8637.5 -8552.5 -8467.5 -8382.5 -8467.5 -8297.5 -8212.5 -8127.5 -8042.5 -7957.5 -7787.5 -7702.5 -7617.5 -7532.5	(238 238 -
32 33 34 35 36 37 38 39 40 41 42 43 44 45 50 51 52 53 54 55 56 57	TP8 TP9 TP10 TP11 TP12 TP13 TP13 TP13 TP13 TP13 TP13 TP13 TP13	-9827.5 -9742.5 -9742.5 -9572.5 -9572.5 -9572.5 -9572.5 -9487.5 -9232.5 -9147.5 -9232.5 -9147.5 -962.5 -8977.5 -8892.5 -8637.5 -8552.5 -8467.5 -8382.5 -8297.5 -8212.5 -8127.5 -8042.5 -7957.5 -7787.5 -7702.5 -7617.5	(238 238 -

61	CSB	-7277.5	-238
62	CSB	-7192.5	-238
63	SHIELDING	-7107.5	-238
64	SDA	-7022.5	-238
65	SDA	-6937.5	-238
66	SHIELDING	-6852.5	-238
67	SCL	-6767.5	-238
68	SCL	-6682.5	-238
69	SHIELDING	-6597.5	-238
70	VDD	-6512.5	-238
71	VDD	-6427.5	-238
72	VDD	-6342.5	-238
73	VDD	-6257.5	-238
74	SHIELDING	-6172.5	-238
75	GND	-6087.5	-238
76	GND	-6002.5	-238
77	GND	-5917.5	-238
78	GND	-5832.5	-238
79	SHIELDING	-5747.5	-288
80	AVDD	-5662.5	-238/
81	AVDD	-5577.5	-238
82	AVDD	-5492.5	1-238
	AVDD	-5407.5	238
83 84		-5882.5	
_	SHIELDING		-238
85	AGND	-5237.5	-238
86	AGND \	-51\$2.5	-238
<u>/87 \</u>	AGND	-5 067.5	-238
(88)	\AGNQ	-4982.5	\ -238 \
\89	SHIELDING	-4897,5	\2 38
90	∕∕ V1	-4812.5	-238
91	V1 (<u>-</u> 4₹2₹\5	- ₹ \$8 √
92	V2 (\	-4642.5	_2 88
93	1/2	-4557)5	-238
~ .			
94	\\V3 \\\	4472.5	-238
94	//3 //3	4472.5 -4387.5	
			-238
95	V3	-4387.5 -4302.5	-238 -238 -238
95 96 97	V4 V4	-4387.5 -4302.5 -4217.5	-238 -238 -238 -238
95 96 97 98	V4 V4 V5	-4387.5 -4302.5 -4217.5 -4132.5	-238 -238 -238 -238 -238
95 96 97 98	V4 V4 V5 V5	-4387.5 -4302.5 -4217.5 -4132.5 -4047.5	-238 -238 -238 -238 -238 -238
95 96 97 98 99 100	V4 V4 V5 V5 V6	-4387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5	-238 -238 -238 -238 -238 -238 -238
95 96 97 98 99 100 101	V4 V4 V5 V5 V6 V6	-4387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -3877.5	-238 -238 -238 -238 -238 -238 -238 -238
95 (96 97 98 99 100 101 102	V4 V4 V5 V5 V6 V6 V7	-4387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -3877.5 -3792.5	-238 -238 -238 -238 -238 -238 -238 -238
95 96 97 98 99 100 101 102 103	V4 V4 V5 V5 V6 V6 V7 V7	-4387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -3877.5 -3792.5 -3707.5	-238 -238 -238 -238 -238 -238 -238 -238
95 96 97 98 100 101 102 103 104	V3 V4 V5 V5 V6 V6 V7 V7 GAMH	-4387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -3877.5 -3792.5 -3707.5 -3622.5	-238 -238 -238 -238 -238 -238 -238 -238
95 96 97 98 100 101 102 103 104 105	V4 V4 V5 V5 V6 V6 V7 V7 GAMH GAMH	-4387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -3877.5 -3792.5 -3707.5 -3622.5 -3537.5	-238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
95 96 97 98 99 100 101 102 103 104 105 106	V4 V4 V5 V5 V6 V6 V7 V7 GAMH GAMH SHIELDING	-4387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -3877.5 -3792.5 -3707.5 -3622.5 -3537.5 -3452.5	-238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
95 96 97 98 99 100 101 102 103 104 105 106 107	V4 V4 V5 V5 V6 V6 V7 V7 GAMH GAMH SHIELDING DASHD	-4387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -3877.5 -3792.5 -3707.5 -3622.5 -3537.5 -3452.5 -3367.5	-238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
95 96 97 98 99 100 101 102 103 104 105 106 107	VA V4 V5 V5 V6 V6 V7 V7 GAMH GAMH SHIELDING DASHD LVFMT	-387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -3877.5 -3707.5 -3622.5 -3537.5 -3452.5 -3367.5 -3282.5	-238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
95 96 97 98 99 100 101 102 103 104 105 106 107	V4 V4 V5 V5 V6 V6 V7 V7 GAMH GAMH SHIELDING DASHD	-387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -3877.5 -3792.5 -3707.5 -3622.5 -3537.5 -3452.5 -3367.5 -3282.5 -3197.5	-238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
95 96 97 98 99 100 101 102 103 104 105 106 107	V4 V4 V5 V6 V6 V7 V7 GAMH GAMH SHIELDING DASHD LVFMT DASHD LVBIT	-387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -3877.5 -3707.5 -3622.5 -3537.5 -3452.5 -3367.5 -3282.5	-238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
95 96 97 98 100 101 102 103 104 105 106 107 108	VA V4 V5 V5 V6 V6 V7 V7 GAMH GAMH SHIELDING DASHD LVFMT DASHD	-387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -3877.5 -3792.5 -3707.5 -3622.5 -3537.5 -3452.5 -3367.5 -3282.5 -3197.5	-238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
95 96 97 98 100 101 102 103 104 105 106 107 108 109 110	V4 V4 V5 V6 V6 V7 V7 GAMH GAMH SHIELDING DASHD LVFMT DASHD LVBIT	-387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -377.5 -3792.5 -3622.5 -3537.5 -3452.5 -3452.5 -3282.5 -3197.5 -3112.5	-238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111	V4 V4 V5 V6 V6 V7 V7 GAMH GAMH SHIELDING DASHD LVFMT DASHD LVBIT DASHD	-387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -3877.5 -3792.5 -3707.5 -3622.5 -3537.5 -3452.5 -3367.5 -3282.5 -3197.5 -3112.5 -3027.5	-238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112	V4 V4 V5 V6 V6 V7 V7 GAMH GAMH SHIELDING DASHD LVFMT DASHD LVFMT DASHD TP17 GND_IF	-387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -3877.5 -3792.5 -3622.5 -3537.5 -3452.5 -3367.5 -3282.5 -3112.5 -3027.5 -3027.5 -2942.5 -2857.5	-238 -238
95 96 97 98 100 101 102 103 104 105 106 107 108 109 110 111 111 111 111 111 111	VA V4 V4 V5 V6 V6 V7 V7 GAMH GAMH SHIELDING DASHD LVFMT DASHD LVFIT DASHD TP17 GND_IF GND_IF GND_IF	-387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -3707.5 -3707.5 -3622.5 -3537.5 -3452.5 -3452.5 -3197.5 -3112.5 -3027.5 -3027.5 -3027.5 -3027.5	-238 -238
95 96 97 98 100 101 102 103 104 105 106 107 108 109 110 111 111 111 111 111 111	VA V4 V5 V6 V6 V6 V7 V7 GAMH GAMH SHIELDING DASHD LVFMT DASHD LVBIT DASHD LVBIT GND_IF GND_IF GND_IF	-387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -3707.5 -3622.5 -3537.5 -3452.5 -3452.5 -3197.5 -3112.5 -3027.5 -2942.5 -2942.5 -2857.5 -2945.5	-238 -238
95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 111 111 111 115 116	VA V4 V5 V6 V6 V7 V7 GAMH GAMH SHIELDING DELSHID LVFMT DASHD LVBIT DASHD TP17 GND_IF GND_IF GND_IF GND_IF GND_IF	-387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -3877.5 -3792.5 -3707.5 -3622.5 -3537.5 -3452.5 -3367.5 -3282.5 -3197.5 -3112.5 -2942.5 -2857.5 -2857.5 -2772.5 -2687.5 -2602.5	-238 -238
95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117	VA V4 V5 V6 V6 V7 V7 GAMH GAMH SHIELDING DASHD LVFMT DASHD LVBIT DASHD TP17 GND_IF GND_IF GND_IF GND_IF GND_IF GND_IF GND_IF GND_IF GND_IF D3P	-387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -3777.5 -3622.5 -3537.5 -3452.5 -3452.5 -3282.5 -3197.5 -3112.5 -3027.5 -2942.5 -287.5 -287.5 -287.5 -287.5 -287.5 -257.5 -2687.5	-238 -238
95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 111 112 113 114 115 116 117 118	V3 V4 V4 V5 V6 V6 V7 V7 GAMH GAMH SHIELDING DASHD LVFMT DASHD LVBIT DASHD TP17 GND_IF GND_IF GND_IF GND_IF GND_IF GND_IF D3P D3N	-387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -3962.5 -3707.5 -3622.5 -3537.5 -3452.5 -3452.5 -3197.5 -3112.5 -3027.5 -2942.5 -2857.5 -2772.5 -2602.5 -2602.5 -2432.5	-238 -238
95 96 97 98 99 100 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119	V3 V4 V4 V5 V6 V6 V7 GAMH GAMH SHIELDING DASHD LVFMT DASHD LVBIT DASHD TP17 GND_IF GND_IF GND_IF GND_IF GND_IF GND_IF DASHD DASHD DASHD DASHD DASHD	-387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -3877.5 -3792.5 -3622.5 -3622.5 -3657.5 -3452.5 -3282.5 -3282.5 -3197.5 -3027.5 -2942.5 -2857.5 -2942.5 -2687.5 -2687.5 -2687.5 -2637.5	-238 -238
95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 111 112 113 114 115 116 117 118	V3 V4 V4 V5 V6 V6 V7 V7 GAMH GAMH SHIELDING DASHD LVFMT DASHD LVBIT DASHD TP17 GND_IF GND_IF GND_IF GND_IF GND_IF GND_IF D3P D3N	-387.5 -4302.5 -4217.5 -4132.5 -4047.5 -3962.5 -3962.5 -3707.5 -3622.5 -3537.5 -3452.5 -3452.5 -3197.5 -3112.5 -3027.5 -2942.5 -2857.5 -2772.5 -2602.5 -2602.5 -2432.5	-238 -238

1				
	122	DASHD	-2092.5	-238
ı				
ı	123	CLKP	-2007.5	-238
ı	124	CLKN	-1922.5	-238
ı	125	DASHD	-1837.5	-238
ı				
ı	126	D1P	-1752.5	-238
ı	127	D1N	-1667.5	-238
ı	128		-1582.5	
ı		DASHD		-238
ı	129	D0P	-1497.5	-238
ı	130	D0N	-1412.5	-2 38
ı				
ı	131	DASHD	-1327.5	-238
ı	132	VDD IF	-1242.5	238
	133	VDD_IF_	√(115 ₹.\\$	238
	134	VDD (F)	-1072.5	\ \ 238
	135	VØD IF		-238
			-9 87 .5	
	136	REW	\-90 2 \5	-238
	137	DASHO	817.5	-238
	$\dot{}$,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	138	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-732.5	-238
	139	NODEV	647.5	-238
	$\overline{}$	11 0	-647.5	
	140) VĎDLV	562.5	-238
	141	VDDLV <	-477.5	-238
	\cdot			
	142	VDDLV	-392.5	-238
	143	XXXXLV)	307.5	-238
		~~ ~~ ~~		
	144	161/8	-282.5	-238
	145	TR\9\\	-137.5	-238
	146	DASHD	-52.5	
	140			-238
	147	1P20	32.5	-238
	148) TP21	1175	-238
	\sim		117.5	
	1149	DASHD	202.5	-238
	150	TP22	287.5	-238
	151	TP23	372.5	-238
	152	DASHD	457.5	-238
	_			
	153	TP24	542.5	-238
	154	TP25	627.5	-238
	155	DASHD	712.5	-238
	156	TP26	797.5	-238
	157	TP27	882.5	-238
	158	TP28	967.5	-238
	159	TP29	1052.5	-238
	160	TP30	1137.5	-238
	161	DASHD	1222.5	-238
	_			
	162	SHIELDING	1307.5	-238
	163	GAML	1392.5	-238
	164	GAML		-238
	_		1477.5	
	165	V8	1562.5	-238
	166	1.70	4047.5	-238
		\/×		
		V8	1647.5	
	167	V8 V9	1732.5	-238
	167 168	V9 V9	1732.5 1817.5	-238 -238
	167 168 169	V9 V9 V10	1732.5 1817.5 1902.5	-238 -238 -238
	167 168	V9 V9 V10	1732.5 1817.5	-238 -238
	167 168 169 170	V9 V9 V10 V10	1732.5 1817.5 1902.5 1987.5	-238 -238 -238 -238
	167 168 169 170 171	V9 V9 V10 V10 V11	1732.5 1817.5 1902.5 1987.5 2072.5	-238 -238 -238 -238 -238
	167 168 169 170	V9 V9 V10 V10	1732.5 1817.5 1902.5 1987.5	-238 -238 -238 -238
	167 168 169 170 171 172	V9 V9 V10 V10 V11 V11	1732.5 1817.5 1902.5 1987.5 2072.5 2157.5	-238 -238 -238 -238 -238 -238
	167 168 169 170 171 172 173	V9 V9 V10 V10 V11 V11 V12	1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5	-238 -238 -238 -238 -238 -238 -238
	167 168 169 170 171 172	V9 V9 V10 V10 V11 V11	1732.5 1817.5 1902.5 1987.5 2072.5 2157.5	-238 -238 -238 -238 -238 -238
	167 168 169 170 171 172 173 174	V9 V9 V10 V10 V11 V11 V12 V12	1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5	-238 -238 -238 -238 -238 -238 -238 -238
	167 168 169 170 171 172 173 174 175	V9 V9 V10 V10 V11 V11 V12 V12 V13	1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5	-238 -238 -238 -238 -238 -238 -238 -238
	167 168 169 170 171 172 173 174	V9 V9 V10 V10 V11 V11 V12 V12	1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5	-238 -238 -238 -238 -238 -238 -238 -238
	167 168 169 170 171 172 173 174 175 176	V9 V9 V10 V10 V11 V11 V12 V12 V13 V13	1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5	-238 -238 -238 -238 -238 -238 -238 -238
	167 168 169 170 171 172 173 174 175 176 177	V9 V9 V10 V10 V11 V11 V12 V12 V13 V13 V14	1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5	-238 -238 -238 -238 -238 -238 -238 -238
	167 168 169 170 171 172 173 174 175 176	V9 V9 V10 V10 V11 V11 V12 V12 V13 V13	1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5	-238 -238 -238 -238 -238 -238 -238 -238
	167 168 169 170 171 172 173 174 175 176 177	V9 V9 V10 V10 V11 V11 V12 V12 V13 V13 V14 V14	1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5	-238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
	167 168 169 170 171 172 173 174 175 176 177 178	V9 V9 V10 V10 V11 V11 V12 V12 V13 V13 V14 V14 SHIELDING	1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5 2752.5	-238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
	167 168 169 170 171 172 173 174 175 176 177 178 179	V9 V9 V10 V10 V11 V11 V12 V12 V13 V13 V14 V14 SHIELDING AGND	1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5 2752.5 2837.5	-238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
	167 168 169 170 171 172 173 174 175 176 177 178	V9 V9 V10 V10 V11 V11 V12 V12 V13 V13 V14 V14 SHIELDING	1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5 2752.5 2837.5	-238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
	167 168 169 170 171 172 173 174 175 176 177 178 179	V9 V9 V10 V10 V11 V11 V12 V12 V13 V13 V14 V14 SHIELDING AGND	1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5 2752.5	-238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238

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<u>fitipower</u>

183	AGND	3092.5	-238
184	SHIELDING	3177.5	-238
185	AVDD	3262.5	-238
186	AVDD	3347.5	-238
187	AVDD	3432.5	-238
188	AVDD	3517.5	-238
189	SHIELDING	3602.5	-238
190	GND	3687.5	-238
191	GND	3772.5	-238
192	GND	3857.5	-238
193	GND	3942.5	-238
194	GIP_MODE	4027.5	-238
195	VDD	4112.5	-238
196	VDD	4197.5	-238
197	VDD	4282.5	-238
198	VDD	4367.5	-238
199	SHIELDING	4452.5	-238
200	DUAL	4537.5	-238
201	DUAL	4622.5	-238
202	MASL	4707.5	-238
203	MASL	4792.5	-238
204	MASLOC	4877.5	-238
205	MASLOC	4962 5	-238
206	CABC_EN[0]	504X.5	-238
207	CABE ENIO	5132.5	-238
208	CABC EN[1]	5217.5	-238
209	CABC_EN[1]	5302.5	-238
210	OPDRV	5387.5	-238
211	OPDRV	5472.5	-238
212	MODE	5557.5	-238
213	MODE	5642.5	-238
214	IFSEL	5727.5	-238
215			-238
	IFSEL	5812.5	
216	BIST	5812.5	-238
216 217			
	BIST	5897.5	-238
217	BIST BIST	5897.5 5982.5	-238 -238
217 218	BIST BIST RES[0]	5897.5 5982.5 6067.5	-238 -238 -238
217 218 219	BIST BIST RES[0] RES[0]	5897.5 5982.5 6067.5 6152.5	-238 -238 -238 -238
217 218 219 220	BIST BIST RES[0] RES[0] RES[1]	5897.5 5982.5 6067.5 6152.5 6237.5	-238 -238 -238 -238 -238
217 218 219 220 221	BIST BIST RES[0] RES[0] RES[1] RES[1]	5897.5 5982.5 6067.5 6152.5 6237.5 6322.5	-238 -238 -238 -238 -238 -238
217 218 219 220 221 222	BIST BIST RES[0] RES[1] RES[1] TP_TEST	5897.5 5982.5 6067.5 6152.5 6237.5 6322.5 6407.5	-238 -238 -238 -238 -238 -238 -238
217 218 219 220 221 222 223	BIST BIST RES[0] RES[0] RES[1] RES[1] TP_TEST TP_TEST	5897.5 5982.5 6067.5 6152.5 6237.5 6322.5 6407.5 6492.5	-238 -238 -238 -238 -238 -238 -238 -238

243	TP41	8192.5	-238
244	TP42	8277.5	-238
245	TP43	8362.5	-238
246	TP44	8447.5	-238
247	SHIELDING	8532.5	-238
248	VDD	8617.5	-238
249	VDD	8702.5	-238
250	VDD	8787.5	-238
251	VDD	8872.5	-238
252	SHIELDING	8957.5	-238
253	GND	9042.5	-238
254	GND	9127.5	-238
255	GND	9212.5	-288
256	GND	9297.5	-238
257	SHIELDING	9382.6	[88]
258	AVDO	9467.5	\ -238
259	AVDO	79552.5	-238
260	AVDD	9637.5	-238
261	AVDD	9722.5	-238
262	SHIELDING	9807.5	238
263	AGMR (9892.5	-238
264	AGNO	9977.5	-238
265	AGND	10062.5	-238
266	AGNO	10147.5	-238
1865	HIELDING	10232.5	-238
268	TP45	10317.5	-238
269	VCOMI	10402.5	
270	1/001/		-238
	VCOMI	10487.5	-238 -238
271	PWR_EN	10487.5 10572.5	
271 272			-238
	PWR_EN	10572.5	-238 -238
272	PWR_EN PWR_EN	10572.5 10657.5	-238 -238 -238
272 273	PWR_EN PWR_EN FBL	10572.5 10657.5 10742.5	-238 -238 -238 -238
272 273 274	PWR_EN PWR_EN FBL FBL	10572.5 10657.5 10742.5 10827.5	-238 -238 -238 -238 -238
272 273 274 275	PWR_EN PWR_EN FBL FBL FBH	10572.5 10657.5 10742.5 10827.5 10912.5	-238 -238 -238 -238 -238 -238
272 273 274 275 276	PWR_EN PWR_EN FBL FBL FBH FBH	10572.5 10657.5 10742.5 10827.5 10912.5 10997.5	-238 -238 -238 -238 -238 -238 -238
272 273 274 275 276 277	PWR_EN PWR_EN FBL FBL FBH FBH FBA	10572.5 10657.5 10742.5 10827.5 10912.5 10997.5 11082.5	-238 -238 -238 -238 -238 -238 -238 -238
272 273 274 275 276 277 278	PWR_EN PWR_EN FBL FBH FBH FBA FBA	10572.5 10657.5 10742.5 10827.5 10912.5 10997.5 11082.5 11167.5	-238 -238 -238 -238 -238 -238 -238 -238
272 273 274 275 276 277 278	PWR_EN PWR_EN FBL FBH FBH FBA FBA AVDDG	10572.5 10657.5 10742.5 10827.5 10912.5 10997.5 11082.5 11167.5 11252.5	-238 -238 -238 -238 -238 -238 -238 -238 -238 -238
272 273 274 275 276 277 278 279	PWR_EN PWR_EN FBL FBH FBH FBA FBA AVDDG AVDDG	10572.5 10657.5 10742.5 10827.5 10912.5 10997.5 11082.5 11167.5 11252.5 11337.5	-238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
272 273 274 275 276 277 278 279 280 281	PWR_EN PWR_EN FBL FBH FBH FBA FBA AVDDG AVDDG DRVA	10572.5 10657.5 10742.5 10827.5 10912.5 10997.5 11082.5 11167.5 11252.5 11337.5	-238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238
272 273 274 275 276 277 278 279 280 281 282	PWR_EN PWR_EN FBL FBH FBH FBA AVDDG AVDDG DRVA DRVA	10572.5 10657.5 10742.5 10827.5 10912.5 10997.5 11082.5 11167.5 11252.5 11337.5 11422.5	-238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238 -238

	303	SHIELDING	12205	263
	304	COM2_OUT	12155	263
	305	COM2_OUT	12105	263
	306	SHIELDING	12055	263
	307	SO1	12012.5	118
	308	SO2	11997.5	248
	309	SO3	11982.5	118
	310	SO4	11967.5	248
	311	SQ8	11,952.5	8
	312	SOR	11937.5	248
	\$13	V 180×11	11922.5	118
1	314	soe	11907.5	248
\	315	SO9	11892.5	118
5	%	SO10	11877.5	248
	317	(60))	11862.5	118
_	\$18	3012	11847.5	248
7	319	\$013	11832.5	118
,	320	SO14	11817.5	248
)	321	SO15	11802.5	118
	322	SO16	11787.5	248
	323	SO17	11772.5	118
	324	SO18	11757.5	248
	325	SO19	11742.5	118
	326	SO20	11727.5	248
	327	SO21	11712.5	118
	328	SO22	11697.5	248
	329	SO23	11682.5	118
	330	SO24	11667.5	248
	331	SO25	11652.5	118
	332	SO26	11637.5	248
	333	SO27	11622.5	118
	334	SO28	11607.5	248
	335	SO29	11592.5	118
	336	SO30	11577.5	248
	337	SO31	11562.5	118
	338	SO32	11547.5	248
	339	SO33	11532.5	118
	340	SO34	11517.5	248
	341	SO35	11502.5	118
	342	SO36	11487.5	248
	343	SO37	11472.5	118
	344	SO38	11457.5	248
	345	SO39	11442.5	118

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226	GRB	6747.5	-238	286	DRVL	11847.5	-238		346	SO40	11427.5	248	
227	GRB	6832.5	-238	287	DRVL_B	11932.5	-238		347	SO41	11412.5	118	
228	SHLR	6917.5	-238	288	DRVL_B	12017.5	-238		348	SO42	11397.5	248	
229	SHLR	7002.5	-238	289	VCOMO	12102.5	-238		349	SO43	11382.5	118	
230	UPDN	7087.5	-238	290	VCOMO	12187.5	-238		350	SO44	11367.5	248	
231	UPDN	7172.5	-238	291	COM2_IN	12272.5	-238		351	SO45	11352.5	118	
232	SHIELDING	7257.5	-238	292	COM2_IN	12357.5	-238		352	SO46	11337.5	248	
233	TP31	7342.5	-238	293	STBNL	12303	-77		353	SO47	11322.5	118	
234	TP32	7427.5	-238	294	F_CtrlL(CLK4)	12403	-37		354	SO48	(130 P.S	248	
235	TP33	7512.5	-238	295	STV2L(STV)	12303	3		355	SQ49	112025	M8	
236	TP34	7597.5	-238	296	STV1L(STV)	12403	43		356	(5030)	11277.5	248	
237	TP35	7682.5	-238	297	CKVL(CLK1)	12303	83		357	\$051	11262.5	118	
238	TP36	7767.5	-238	298	UDL(CLK2)	12403	123	$\langle \langle \rangle$	358	SO52	11247.5	248	
239	TP37	7852.5	-238	299	SYNC2L	12303	163		359	SO53	11232.5	118	
240	TP38	7937.5	-238	300	SYNC1L	12403	/203		360	SQ54	11217.5	248	
241	TP39	8022.5	-238	301	OEVL(CLK3)	12303	243/		361	(SO55	11202.5	118	
242	TP40	8107.5	-238	302	F_CtrlL(OLK4)	12403	283		362	\$056	11187.5	248	
) *			

363	SO57	11172.5	118
364	SO58	11157.5	248
365	SO59	11142.5	118
366	SO60	11127.5	248
367	SO61	11112.5	118
368	SO62	11097.5	248
369	SO63	11082.5	118
370	SO64	11067.5	248
371	SO65	11052.5	118
372	SO66	11037.5	248
373	SO67	11022.5	118
374	SO68	11007.5	248
375	SO69	10992.5	118
376	SO70	10977.5	248
377	SO71	10962.5	118
378	SO72	10947.5	248
379	SO73	10932.5	118
380	SO74	10917.5	248
381	SO75	10902.5	118
382	SO76	10887.5	248
383	S077	10872.5	118
384	SO78	10857.5	248
385	S079	10842.5	118
386	5080	108275	248
387	S081 /	10812.5	118
388	S082	10797.5	248
389	SO83	10782.5	118
390	SO84	10767.5	248
391	SO85	10752.5	118
392	SO86	10737.5	248
393	SO87	10722.5	118
394	SO88	10707.5	248
395	SO89	10692.5	118
396	SO90	10677.5	248
397	SO91	10662.5	118
398	SO92	10647.5	248
399	SO93	10632.5	118
400	SO94	10617.5	248
401	SO95	10602.5	118
402	SO96	10587.5	248
403	SO97	10572.5	118
403 404	SO97 SO98	10572.5 10557.5	118 248

423	SO117	10272.5	118
424	SO117	10257.5	248
425	SO119	10242.5	118
426	SO119	10242.5	248
427	SO121	10212.5	118
428	SO122	10197.5	248
429	SO123	10182.5	118
430	SO124	10167.5	248
431	SO125	10152.5	118
432	SO126	10137.5	248
433	SO127	10122.5	118
434	SO128	10107.5	248
435	SO129	10092.5	118
436	SO130	10077.5	248
437	SO131	10062.5	[738]
438	SO132	30047.5	248
439	SO133	10032.5	118
440	SØ134	10017.5	248
441	\$0135	10002.5	118
442	3 O136	9987.5	248
443	SO137	9972.5	1/1/8
444	SØ138	9957.5	248
445	SO 139	9942.5	118
446	SO140	9927.5	248
JA47	80141	9912.5	118
448	SO142	9897.5	248
449	SO143	9882.5	118
450	SO144	9867.5	248
451	SO145	9852.5	118
452	SO146	9837.5	248
453	SO147	9822.5	118
454	SO148	9807.5	248
455	SO149	9792.5	118
456	SO150	9777.5	248
457	SO151	9762.5	118
458	SO152	9747.5	248
459	SO153	9732.5	118
460	SO154	9717.5	248
461	SO155	9702.5	118
462	SO156	9687.5	248
463	SO157	9672.5	118
464	SO158	9657.5	248
465	SO159	9642.5	118

	483	SO177	9372.5	118
	484	SO178	9357.5	248
	485	SO179	9342.5	118
	486	SO180	9327.5	248
	487	SO181	9312.5	118
	488	SO182	9297.5	248
	489	SO183	9282.5	178
	490	SO184	9267.5	248
	491	SO185	9252.5	118
	492	S@186	9237,5	248
	493	SO187	9222.5	118
	494	30188	9207.5	248
	495	SO189	9192.5	118
	499	SO190	9177.5	248
	497	SO101	9162.5	118
	498	SQ192	9147.5	248
(499	\$0193	9132.5	118
1	500	\$0194	9117.5	248
	501	SO195	9102.5	118
	502	SO196	9087.5	248
	503	SO197	9072.5	118
	504	SO198	9057.5	248
	505	SO199	9042.5	118
	506	SO200	9027.5	248
	507	SO201	9012.5	118
	508	SO202	8997.5	248
	509	SO203	8982.5	118
	510	SO204	8967.5	248
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	514	SO208	8907.5	248
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	516	SO210	8877.5	248
	517	SO211	8862.5	118
	518	SO212	8847.5	248
	519	SO213	8832.5	118
	520	SO214	8817.5	248
	521	SO215	8802.5	118
	522	SO216	8787.5	248
	523	SO217	8772.5	118
	524	SO218	8757.5	248
	525	SO219	8742.5	118
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406	SO100	10527.5	248	466	SO160	9627.5	248		526	SO220	8727.5	248	
407	SO101	10512.5	118	467	SO161	9612.5	118		527	SO221	8712.5	118	
408	SO102	10497.5	248	468	SO162	9597.5	248		528	SO222	8697.5	248	
409	SO103	10482.5	118	469	SO163	9582.5	118		529	SO223	8682.5	118	
410	SO104	10467.5	248	470	SO164	9567.5	248		530	SO224	8667.5	248	
411	SO105	10452.5	118	471	SO165	9552.5	118		531	SO225	8652.5	118	
412	SO106	10437.5	248	472	SO166	9537.5	248		532	SO226	8637.5	248	
413	SO107	10422.5	118	473	SO167	9522.5	118		533	SO227	8622.5	148	
414	SO108	10407.5	248	474	SO168	9507.5	248		534	SO228	8607.5	248	\searrow
415	SO109	10392.5	118	475	SO169	9492.5	118		535	SO229	8592.5	118	
416	SO110	10377.5	248	476	SO170	9477.5	248		536	\$0230	8577.5	248	
417	SO111	10362.5	118	477	SO171	9462.5	118		537	S023	8562.5	118	
418	SO112	10347.5	248	478	SO172	9447.5	248	7	538	90232	8547.5	248	
419	SO113	10332.5	118	479	SO173	9432.5	118	//	539	SO233	8532.5	118	
420	SO114	10317.5	248	480	SO174	9417.5	248		540	SO234	8517.5	248	
421	SO115	10302.5	118	481	SO175	9402.5	178/		541	80285	8502.5	118	
422	SO116	10287.5	248	482	SO176	9387.5	248		542	SO238	8487.5	248	

543	SO237	8472.5	118
544	SO238	8457.5	248
545	SO239	8442.5	118
546	SO240	8427.5	248
547	SO241	8412.5	118
548	SO242	8397.5	248
549	SO243	8382.5	118
550	SO244	8367.5	248
551	SO245	8352.5	118
552	SO246	8337.5	248
553	SO247	8322.5	118
554	SO248	8307.5	248
555	SO249	8292.5	118
556	SO250	8277.5	248
557	SO251	8262.5	118
558	SO252	8247.5	248
559	SO253	8232.5	118
560	SO254	8217.5	248
561	SO255	8202.5	118
562	SO256	8187.5	248
563	SO257	8172.5	(118)
564	SO258	8157.5	248
565	SO259	8142.5	118
566	50260	8127.5	248
567	\$0281	8112.5	118
568	00000	8097.5	248
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569	SO263	8082.5	118
569 570	V		
	SO263	8082.5	118
570	SO263 SO264	8082.5 8067.5	118 248
570 571	SO263 SO264 SO265	8082.5 8067.5 8052.5	118 248 118
570 571 572	SO263 SO264 SO265 SO266	8082.5 8067.5 8052.5 8037.5	118 248 118 248
570 571 572 573	SO263 SO264 SO265 SO266 SO267	8082.5 8067.5 8052.5 8037.5 8022.5	118 248 118 248 118
570 571 572 573 574	SO263 SO264 SO265 SO266 SO267 SO268	8082.5 8067.5 8052.5 8037.5 8022.5 8007.5	118 248 118 248 118 248
570 571 572 573 574 575	SO263 SO264 SO265 SO266 SO267 SO268 SO269	8082.5 8067.5 8052.5 8037.5 8022.5 8007.5 7992.5	118 248 118 248 118 248 118
570 571 572 573 574 575 576	\$0263 \$0264 \$0265 \$0266 \$0267 \$0268 \$0269 \$0270	8082.5 8067.5 8052.5 8037.5 8022.5 8007.5 7992.5	118 248 118 248 118 248 118 248
570 571 572 573 574 575 576	\$0263 \$0264 \$0265 \$0266 \$0267 \$0268 \$0269 \$0270	8082.5 8067.5 8052.5 8037.5 8022.5 8007.5 7992.5 7977.5	118 248 118 248 118 248 118 248 118
570 571 572 573 574 575 576 577	\$0263 \$0264 \$0265 \$0266 \$0267 \$0268 \$0269 \$0270 \$0271	8082.5 8067.5 8052.5 8037.5 8022.5 8007.5 7992.5 7997.5 7962.5 7947.5	118 248 118 248 118 248 118 248 118 248
570 571 572 573 574 575 576 577 578	\$0263 \$0264 \$0265 \$0266 \$0267 \$0268 \$0269 \$0270 \$0271 \$0272	8082.5 8067.5 8052.5 8037.5 8022.5 8007.5 7992.5 7977.5 7962.5 7947.5	118 248 118 248 118 248 118 248 118 248 118
570 571 572 573 574 575 576 577 578 579	\$0263 \$0264 \$0265 \$0266 \$0267 \$0268 \$0269 \$0270 \$0271 \$0272 \$0273	8082.5 8067.5 8052.5 8037.5 8022.5 8007.5 7992.5 7977.5 7962.5 7947.5 7932.5	118 248 118 248 118 248 118 248 118 248 118 248
570 571 572 573 574 575 576 577 578 579 580 581	\$0263 \$0264 \$0265 \$0266 \$0267 \$0268 \$0270 \$0271 \$0272 \$0273 \$0274	8082.5 8067.5 8052.5 8037.5 8022.5 8007.5 7992.5 7962.5 7947.5 7932.5 7917.5	118 248 118 248 118 248 118 248 118 248 118 248 118
570 571 572 573 574 575 576 577 578 579 580 581	\$0263 \$0264 \$0265 \$0266 \$0267 \$0268 \$0270 \$0271 \$0272 \$0273 \$0274 \$0275 \$0276	8082.5 8067.5 8052.5 8037.5 8022.5 8007.5 7992.5 7997.5 7962.5 7932.5 7917.5 7902.5 7887.5	118 248 118 248 118 248 118 248 118 248 118 248 118 248
570 571 572 573 574 575 576 577 578 580 581 582 583	\$0263 \$0264 \$0265 \$0266 \$0267 \$0268 \$0269 \$0270 \$0271 \$0272 \$0273 \$0274 \$0275 \$0276	8082.5 8067.5 8052.5 8037.5 8022.5 8007.5 7992.5 7997.5 7962.5 7947.5 7932.5 7917.5 7902.5 7887.5	118 248 118 248 118 248 118 248 118 248 118 248 118 248 118

603	SO297	7572.5	118
604			248
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605	SO299	7542.5	
606	SO300	7527.5	248
607	SO301	7512.5	118
608	SO302	7497.5	248
609	SO303	7482.5	118
610	SO304	7467.5	248
611	SO305	7452.5	118
612	SO306	7437.5	248
613	SO307	7422.5	118
614	SO308	7407.5	248
615	SO309	7392.5	118
616	SO310	7377.5	248
617	SO311	7362.5	[738]
618	SO312	7347.5	248
619	SO313	7332.5	118
620	SØ314	7317.5	248
621	\$0315	7302.5	118
622	3 O316	7287.5	248
623	SO317	7272.5	1/18
624	\$0318	7257.5	248
825	SO319	7242.5	118
626	SO320	7227.5	248
827	60321	7212.5	118
628	SO322	7197.5	248
629	SO323	7182.5	118
630	SO324	7167.5	248
631	SO325	7152.5	118
632	SO326	7137.5	248
633	SO327	7122.5	118
634	SO328	7107.5	248
635	SO329	7092.5	118
636	SO330	7077.5	248
637	SO331	7062.5	118
638	SO332	7047.5	248
639	SO333	7032.5	118
640	SO334	7017.5	248
641	SO335	7002.5	118
642	SO336	6987.5	248
643	SO337	6972.5	118
644	SO338	6957.5	248
645	SO339	6942.5	118

	663	SO357	6672.5	118
	664	SO358	6657.5	248
	665	SO359	6642.5	118
	666	SO360	6627.5	248
	667	SO361	6612.5	118
	668	SO362	6597.5	248
	669	SO363	6582.5	18
	670	SO364	6567.5	248
	671	SO365	6552.5	118
	672	SØ366	65375	248
	673	SO367	6522.5	118
<	674	30368	6507.5	248
/	6 75	SO369	6492.5	118
•	629	SO370	6477.5	248
	677	\$0371	6462.5	118
	678	SO372	6447.5	248
(679	\$0373	6432.5	118
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	687	SO381	6312.5	118
	688	SO382	6297.5	248
	689	SO383	6282.5	118
	690	SO384	6267.5	248
	691	SO385	6252.5	118
	692	SO386	6237.5	248
	693	SO387	6222.5	118
	694	SO388	6207.5	248
	695	SO389	6192.5	118
	696	SO390	6177.5	248
	697	SO391	6162.5	118
	698	SO392	6147.5	248
	699	SO393	6132.5	118
	700	SO394	6117.5	248
	701	SO395	6102.5	118
	702	SO396	6087.5	248
	703	SO397	6072.5	118
	704	SO398	6057.5	248
	705	SO399	6042.5	118

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586	SO280	7827.5	248		646	SO340	6927.5	248		706	SO400	6027.5	248	
587	SO281	7812.5	118	1	647	SO341	6912.5	118		707	SO401	6012.5	118	
588	SO282	7797.5	248	1	648	SO342	6897.5	248		708	SO402	5997.5	248	
589	SO283	7782.5	118	1	649	SO343	6882.5	118		709	SO403	5982.5	118	
590	SO284	7767.5	248	1	650	SO344	6867.5	248		710	SO404	5967.5	248	
591	SO285	7752.5	118	1	651	SO345	6852.5	118		711	SO405	5952.5	118	
592	SO286	7737.5	248	1	652	SO346	6837.5	248		712	SO406	5937.5	248	
593	SO287	7722.5	118		653	SO347	6822.5	118		713	SO407	5922.5	11/8	
594	SO288	7707.5	248		654	SO348	6807.5	248		714	SO408	5907.5	248	
595	SO289	7692.5	118		655	SO349	6792.5	118		715	SO409	5892.5	118	
596	SO290	7677.5	248		656	SO350	6777.5	248		716	50440	5877.5	248	
597	SO291	7662.5	118		657	SO351	6762.5	118		717	S041	5862.5	118	
598	SO292	7647.5	248		658	SO352	6747.5	248	3	718	90412	5847.5	248	
599	SO293	7632.5	118		659	SO353	6732.5	118	,//	719	SO413	5832.5	118	
600	SO294	7617.5	248		660	SO354	6717.5	248		X30	SO414	5817:5	248	
601	SO295	7602.5	118		661	SO355	6702.5	178/		721	80475	5802.5	118	
602	SO296	7587.5	248		662	SO356	6687.5	248		722	SO4V8	5787.5	248	
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723	SO417	5772.5	118
724	SO418	5757.5	248
725	SO419	5742.5	118
726	SO420	5727.5	248
727	SO421	5712.5	118
728	SO422	5697.5	248
729	SO423	5682.5	118
730	SO424	5667.5	248
731	SO425	5652.5	118
732	SO426	5637.5	248
733	SO427	5622.5	118
734	SO428	5607.5	248
735	SO429	5592.5	118
736	SO430	5577.5	248
737	SO431	5562.5	118
738	SO432	5547.5	248
739	SO433	5532.5	118
740	SO434	5517.5	248
741	SO435	5502.5	118
742	SO436	5487.5	248
743	SO437	5472.5	118
744	SO438	5457.5	248
744 745	SO438 SO439	5457.5 5442.6	248 118
		/// ///	
745	SO439	5442.5	118
745 746	SO439 80440	5442.5 \$427.5	118 248
745 746 747	SO440 SO441	5442.6 5427.5 5412.5	118 248 118
745 746 747 748	\$0440 \$0440 \$0441 \$0442	5442.5 5427.5 5412.5 5397.5	118 248 118 248
745 746 747 748 749	SO449 SO441 SO442 SO443	5442.6 5427.5 5412.5 5397.5 5382.5	118 248 118 248 118
745 746 747 748 749 750	\$0449 \$0449 \$0441 \$0442 \$0443 \$0444	5442.6 5427.5 5412.5 5397.5 5382.5 5367.5	118 248 118 248 118 248
745 746 747 748 749 750 751	\$0449 \$0449 \$0441 \$0442 \$0443 \$0444 \$0445	5442.5 5412.5 5397.5 5382.5 5367.5 5352.5	118 248 118 248 118 248 118
745 746 747 748 749 750 751	\$0438 \$0440 \$0441 \$0442 \$0443 \$0444 \$0445	5442.5 5427.5 5412.5 5397.5 5382.5 5367.5 5352.5 5337.5	118 248 118 248 118 248 118 248
745 746 747 748 749 750 751 752	\$0449 \$0449 \$0441 \$0442 \$0443 \$0444 \$0445 \$0446	542.5 542.5 542.5 5397.5 5382.5 5367.5 5352.5 5322.5	118 248 118 248 118 248 118 248 118
745 746 747 748 749 750 751 752 753	\$0438 \$0440 \$0441 \$0442 \$0443 \$0444 \$0445 \$0446 \$0447	5427.5 5427.5 5427.5 5397.5 5382.5 5367.5 5352.5 5322.5 5307.5	118 248 118 248 118 248 118 248 118 248
745 746 747 748 749 750 751 752 753 754 755	\$0448 \$0441 \$0442 \$0443 \$0444 \$0445 \$0446 \$0447 \$0448	5427.5 5427.5 5427.5 5397.5 5382.5 5367.5 5352.5 5322.5 5307.5 5292.5	118 248 118 248 118 248 118 248 118 248 118
745 746 747 748 749 750 751 752 753 754 755 756	\$0438 \$0440 \$0441 \$0442 \$0443 \$0444 \$0445 \$0446 \$0447 \$0448 \$0449	5427.5 5427.5 5427.5 5397.5 5382.5 5367.5 5352.5 5322.5 5307.5 5292.5 5277.5	118 248 118 248 118 248 118 248 118 248 118 248
745 746 747 748 749 750 751 752 753 754 755 756 757	\$0449 \$0441 \$0442 \$0443 \$0444 \$0445 \$0446 \$0447 \$0448 \$0449 \$0450 \$0451	5427.5 5427.5 5427.5 5397.5 5382.5 5367.5 5352.5 5322.5 5307.5 5292.5 5277.5 5262.5	118 248 118 248 118 248 118 248 118 248 118 248 118
745 746 747 748 749 750 751 752 753 754 755 756 757	\$0438 \$0449 \$0441 \$0442 \$0443 \$0444 \$0445 \$0446 \$0447 \$0448 \$0449 \$0450 \$0451	5427.5 5427.5 5427.5 5397.5 5382.5 5367.5 5352.5 5322.5 5307.5 5292.5 5277.5 5262.5 5247.5	118 248 118 248 118 248 118 248 118 248 118 248 118 248
745 746 747 748 749 750 751 752 753 754 755 756 757 758	\$0438 \$0440 \$0441 \$0442 \$0443 \$0444 \$0445 \$0446 \$0447 \$0448 \$0449 \$0450 \$0451 \$0452 \$0453	5427.5 5427.5 5427.5 5397.5 5382.5 5367.5 5352.5 5322.5 5307.5 5292.5 5277.5 5262.5 5247.5 5232.5	118 248 118 248 118 248 118 248 118 248 118 248 118 248 118
745 746 747 748 750 751 752 753 754 755 756 757 758 759 760	\$0438 \$0449 \$0442 \$0444 \$0445 \$0446 \$0447 \$0448 \$0449 \$0450 \$0451 \$0452 \$0453	542.5 5427.5 5427.5 5397.5 5382.5 5367.5 5352.5 5322.5 5307.5 5292.5 5277.5 5262.5 5247.5 5232.5 5217.5	118 248 118 248 118 248 118 248 118 248 118 248 118 248 118 248
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	852	SØ546	3837,5	248			
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	857	SO551	3₹62.5	118			
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	861	SO555	3702.5	118			
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	874	SO568	3507.5	248			
	875	SO569	3492.5	118			
	876	SO570	3477.5	248			
	877	SO571	3462.5	118			
	878	SO572	3447.5	248			
	879	SO573	3432.5	118			
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	881	SO575	3402.5	118			
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	883	SO577	3372.5	118			
	884	SO578	3357.5	248			
	885	SO579	3342.5	118			
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767	SO461	5112.5	118	1	827	SO521	4212.5	118		887	SO581	3312.5	118	
768	SO462	5097.5	248		828	SO522	4197.5	248		888	SO582	3297.5	248	
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770	SO464	5067.5	248		830	SO524	4167.5	248		890	SO584	3267.5	248	
771	SO465	5052.5	118	1	831	SO525	4152.5	118		891	SO585	3252.5	118	
772	SO466	5037.5	248	1	832	SO526	4137.5	248		892	SO586	3237.5	248	
773	SO467	5022.5	118		833	SO527	4122.5	118		893	SO587	3222.5	118	
774	SO468	5007.5	248		834	SO528	4107.5	248		894	SO588	3207.5	248	
775	SO469	4992.5	118		835	SO529	4092.5	118		895	SO589	3192.5	118	
776	SO470	4977.5	248		836	SO530	4077.5	248		896	\$0590	3177.5	248	
777	SO471	4962.5	118		837	SO531	4062.5	118		897	SO59	3162.5	118	
778	SO472	4947.5	248		838	SO532	4047.5	248	کی.	898	90592	3147.5	248	
779	SO473	4932.5	118		839	SO533	4032.5	118	,//	899	SO593	3132.5	118	
780	SO474	4917.5	248		840	SO534	4017.5	248		900	SO594	8117.5	248	
781	SO475	4902.5	118		841	SO535	4002.5	1181		901	80595	3102.5	118	
782	SO476	4887.5	248		842	SO536	3987.5	248		902	SO696	3087.5	248	
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917	SO611	2862.5	118
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920	SO614	2817.5	248
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	00017	2772.5	(118)
923	SO617	2112.0	(110)
923 924	SO618	2757.5	248
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924 925 926	SO618 SO619 SO620	2757.5 2742.6 2727.5	248 118 248
924 925 926 927	\$0618 \$0619 \$0620 \$0621	2757.5 2742.5 2727.5 2712.5	118 248 118
924 925 926 927 928	\$0618 \$0619 \$0620 \$0621 \$0622	2767.5 2742.6 2727.5 2712.5 2697.5	248 118 248 118 248
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924 925 926 927 928 929 930	\$0618 \$0619 \$0629 \$0621 \$0622 \$0623 \$0624 \$0625	2767.5 2742.6 2712.5 2712.5 2697.5 2682.5 2667.5 2652.5	248 118 248 118 248 118 248 118
924 925 926 927 928 929 930 931	SO618 SO619 SO629 SO622 SO623 SO624 SO625 SO626	2767.5 2742.6 2727.5 2712.5 2697.5 2682.5 2667.5 2652.5 2637.5	248 118 248 118 248 118 248 118 248
924 925 926 927 928 929 930 931 932	\$0618 \$0619 \$0629 \$0621 \$0622 \$0623 \$0624 \$0625 \$0626	2767.5 2742.5 2712.5 2697.5 2682.5 2667.5 2652.5 2637.5 2622.5	118 248 118 248 118 248 118 248 118
924 925 926 927 928 929 930 931 932 933	\$0618 \$0619 \$0629 \$0621 \$0622 \$0623 \$0624 \$0625 \$0626 \$0627	2767.5 2742.6 2742.5 2697.5 2682.5 2667.5 2637.5 2622.5 2607.5	118 248 118 248 118 248 118 248 118 248 118
924 925 926 927 928 929 930 931 932 933 934	\$0618 \$0619 \$0629 \$0622 \$0623 \$0624 \$0625 \$0626 \$0627 \$0628	2767.5 2742.5 2712.5 2697.5 2682.5 2667.5 2652.5 2622.5 2607.5 2592.5	118 248 118 248 118 248 118 248 118 248 118
924 925 926 927 928 929 930 931 932 933 934 935	\$0618 \$0619 \$0629 \$0622 \$0623 \$0624 \$0625 \$0626 \$0627 \$0628 \$0629	2767.5 2742.5 2712.5 2697.5 2682.5 2667.5 2637.5 2622.5 2607.5 2592.5 2577.5	118 248 118 248 118 248 118 248 118 248 118 248
924 925 926 927 928 930 931 932 933 934 935 936	SO618 SO619 SO629 SO622 SO623 SO624 SO625 SO626 SO627 SO628 SO629 SO630 SO631	2767.5 2742.5 2712.5 2697.5 2682.5 2667.5 2652.5 2622.5 2607.5 2592.5 2577.5 2562.5	118 248 118 248 118 248 118 248 118 248 118 248 118
924 925 926 927 928 930 931 932 933 934 935 936 937	SO618 SO619 SO629 SO622 SO623 SO624 SO625 SO626 SO627 SO628 SO629 SO630 SO631 SO632	2767.5 2742.5 2712.5 2697.5 2682.5 2667.5 2652.5 2637.5 2607.5 2592.5 2592.5 2547.5	118 248 118 248 118 248 118 248 118 248 118 248 118 248
924 925 926 927 928 930 931 932 933 934 935 936 937 938	\$0618 \$0619 \$0629 \$0623 \$0623 \$0624 \$0625 \$0626 \$0627 \$0628 \$0629 \$0630 \$0631 \$0632 \$0633	2767.5 2742.6 2742.5 2697.5 2682.5 2667.5 2652.5 2607.5 2622.5 2592.5 2577.5 2562.5 2547.5 2532.5	118 248 118 248 118 248 118 248 118 248 118 248 118 248 118
924 925 926 927 928 930 931 932 933 934 935 936 937 938 939	\$0618 \$0619 \$0629 \$0622 \$0623 \$0624 \$0625 \$0626 \$0627 \$0628 \$0629 \$0630 \$0631 \$0632 \$0633	2767.5 2742.5 2712.5 2697.5 2682.5 2667.5 2652.5 2637.5 2607.5 2592.5 2577.5 2562.5 2547.5 2532.5 2517.5	118 248 118 248 118 248 118 248 118 248 118 248 118 248 118 248 118 248
924 925 926 927 928 930 931 932 933 934 935 936 937 938 939 940	\$0618 \$0619 \$0629 \$0623 \$0623 \$0624 \$0625 \$0626 \$0627 \$0628 \$0629 \$0630 \$0631 \$0632 \$0633	2767.5 2742.5 2712.5 2697.5 2682.5 2667.5 2652.5 2607.5 2622.5 2507.5 2592.5 2547.5 2532.5 2517.5 2502.5	118 248 118 248 118 248 118 248 118 248 118 248 118 248 118 248 118 248
924 925 926 927 928 930 931 932 933 934 935 936 937 938 939 940	\$0618 \$0619 \$0629 \$0623 \$0623 \$0624 \$0625 \$0626 \$0627 \$0628 \$0629 \$0630 \$0631 \$0632 \$0633 \$0634 \$0635	2767.5 2742.6 2742.5 2697.5 2682.5 2667.5 2652.5 2637.5 2622.5 2507.5 2592.5 2547.5 2532.5 2517.5 2502.5 2487.5	118 248 118 248 118 248 118 248 118 248 118 248 118 248 118 248 118 248 118

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967	SO661	2112.5	118
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969	SO663	2082.5	118
970	SO664	2067.5	248
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978	SO672	>1947.5	248
979	SO673	1932.5	118
980	SØ674	1917.5	248
981	\$0675	1902.5	118
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986	SO680	1827.5	248
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991	SO685	1752.5	118
992	SO686	1737.5	248
993	SO687	1722.5	118
994	SO688	1707.5	248
995	SO689	1692.5	118
996	SO690	1677.5	248
997	SO691	1662.5	118
998	SO692	1647.5	248
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1000	SO694	1617.5	248
1001	SO695	1602.5	118
1002	SO696	1587.5	248
1003	SO697	1572.5	118
1004	SO698	1557.5	248
1005	SO699	1542.5	118

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	1030	SO724	1167.5	248
	1031	SO725	1152.5	118
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	1052	SO746	837.5	248
	1053	SO747	822.5	118
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	1055	SO749	792.5	118
	1056	SO750	777.5	248
	1057	SO751	762.5	118
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	1061	SO755	702.5	118
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	1063	SO757	672.5	118
	1064	SO758	657.5	248
	1065	SO759	642.5	118

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946	SO640	2427.5	248		1006	SO700	1527.5	248		1066	SO760	627.5	248	
947	SO641	2412.5	118	1	1007	SO701	1512.5	118		1067	SO761	612.5	118	
948	SO642	2397.5	248		1008	SO702	1497.5	248		1068	SO762	597.5	248	
949	SO643	2382.5	118		1009	SO703	1482.5	118		1069	SO763	582.5	118	
950	SO644	2367.5	248		1010	SO704	1467.5	248		1070	SO764	567.5	248	
951	SO645	2352.5	118		1011	SO705	1452.5	118		1071	SO765	552.5	118	
952	SO646	2337.5	248		1012	SO706	1437.5	248		1072	SO766	537.5	248	
953	SO647	2322.5	118		1013	SO707	1422.5	118		1073	SO767	522.5	4/18	
954	SO648	2307.5	248		1014	SO708	1407.5	248		1074	SO768	50 7 .5	248	
955	SO649	2292.5	118		1015	SO709	1392.5	118		1075	SHIELDING	455	263	
956	SO650	2277.5	248		1016	SO710	1377.5	248		1076	SHIELDING	405	263	
957	SO651	2262.5	118		1017	SO711	1362.5	118		1077	SHIELDING	355	263	
958	SO652	2247.5	248		1018	SO712	1347.5	248	7	1078	SMELDING	50	263	
959	SO653	2232.5	118		1019	SO713	1332.5	118	//	1079	SHIELDING	∕ 0	263	
960	SO654	2217.5	248		1020	SO714	1317.5	248		1080	SHIELDING	-50	263	
961	SO655	2202.5	118		1021	SO715	1302.5	1181		1081	SHIELDING	355	263	
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1106 1107 1108 1109 1110 1111 1112	\$0791 \$0782 \$0793 \$0794 \$0795 \$0796	837.9 -852.5 -867.5 -882.5 -897.5 -912.5	248 118 248 118 248 118 248
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1106 1107 1108 1109 1110 1111 1112 1113	\$0791 \$0782 \$0793 \$0794 \$0795 \$0796 \$0797 \$0798	837.5 -852.5 -867.5 -882.5 -897.5 -912.5 -927.5 -942.5 -957.5	248 118 248 118 248 118 248 118 248 118
1106 1107 1108 1109 1110 1111 1112 1113 1114 1115	\$0791 \$0792 \$0794 \$0795 \$0796 \$0797 \$0798 \$0799	837.5 -852.5 -867.5 -882.5 -897.5 -912.5 -927.5 -942.5 -957.5	248 118 248 118 248 118 248 118 248 118
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	1212	SØ897	-2427.5	248
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/	1215	SO900	-2472.5	118
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	1244	SO929	-2907.5	248
	1245	SO930	-2922.5	118

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1131	SO816	-1212.5	118	1191	SO876	-2112.5	118		1251	SO936	-3012.5	118		
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1134	SO819	-1257.5	248	1194	SO879	-2157.5	248		1254	SO939	-30 5 7.5	248		
1135	SO820	-1272.5	118	1195	SO880	-2172.5	118		1255	SO940	-3072.5	118		
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1140	SO825	-1347.5	248	1200	SO885	-2247.5	248		J\$60	SO945	3147.5	248		
1141	SO826	-1362.5	118	1201	SO886	-2262.5	178		1261	80946	-3162.5	118		
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1289 1290	<u> </u>	-3582.5 -3597.5	118 248
-	SO974		
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1290 1291 1292 1293 1294 1295	\$0974 \$0975 \$0976 \$0977 \$0978 \$0979 \$0980	-3597.5 -3612.5 -3627.5 -3642.5 -3657.5 -3672.5	248 118 248 118 248 118
1290 1291 1292 1293 1294 1295 1296	\$0974 \$0975 \$0976 \$0977 \$0978 \$0979 \$0980 \$0981	-3597.5 -3612.5 -3627.5 -3642.5 -3657.5 -3672.5 -3687.5	248 118 248 118 248 118 248
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1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 1300 1301	\$0974 \$0975 \$0976 \$0977 \$0978 \$0979 \$0980 \$0981 \$0982 \$0983 \$0984 \$0985 \$0986	-3597.5 -3612.5 -3627.5 -3642.5 -3657.5 -3672.5 -3702.5 -3717.5 -3732.5 -3747.5 -3762.5	248 118 248 118 248 118 248 118 248 118 248 118
1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 1300 1301	\$0974 \$0975 \$0976 \$0977 \$0978 \$0979 \$0980 \$0981 \$0982 \$0983 \$0984 \$0985 \$0986	-3597.5 -3612.5 -3627.5 -3642.5 -3657.5 -3672.5 -3702.5 -3717.5 -3732.5 -3747.5 -3762.5 -3777.5	248 118 248 118 248 118 248 118 248 118 248 118 248

1323 SO1008 -4092.5 118 1324 SO1009 -4107.5 248 1325 SO1010 -4122.5 118 1326 SO1011 -4137.5 248 1327 SO1012 -4152.5 118 1328 SO1013 -4167.5 248 1329 SO1014 -4182.5 118 1330 SO1015 -4197.5 248 1331 SO1016 -4212.5 118 1332 SO1017 -4227.5 248 1333 SO1018 -4242.5 118 1334 SO1019 -4257.5 248 1335 SO1020 -4272.5 118 1336 SO1021 -4287.5 248 1337 SO1022 -4362.5 118 1338 SO1023 4317.5 248 1339 SO1024 -4382.5 118 1348 SO1025 4347.5 248 1349 SO102				
1325 SO1010 -4122.5 118 1326 SO1011 -4137.5 248 1327 SO1012 -4152.5 118 1328 SO1013 -4167.5 248 1329 SO1014 -4182.5 118 1330 SO1015 -4197.5 248 1331 SO1016 -4212.5 118 1332 SO1017 -4227.5 248 1333 SO1018 -4242.5 118 1334 SO1019 -4257.5 248 1335 SO1020 -4272.5 118 1336 SO1021 -4287.5 248 1337 SO1022 -4362.5 118 1338 SO1024 -4382.5 118 1339 SQ1025 -4347.5 248 1334 SO1026 -4362.5 118 1343 SO1027 -4376.5 248 1343 SO1027 -4376.5 248 1343 SO1	1323	SO1008	-4092.5	118
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1330 SO1015 -4197.5 248 1331 SO1016 -4212.5 118 1332 SO1017 -4227.5 248 1333 SO1018 -4242.5 118 1334 SO1019 -4257.5 248 1335 SO1020 -4272.5 118 1336 SO1021 -4287.5 248 1337 SO1022 -4362.5 118 1338 SO1028 -4317.5 248 1339 SQ1024 -4382.5 118 1349 SO1026 -4362.5 118 1349 SO1027 -4377.5 248 1343 SO1026 -4362.5 118 1343 SO1027 -4377.5 248 1343 SO1027 -4377.5 248 1343 SO1027 -4377.5 248 1344 SO1034 -4437.5 248 1345 SO1034 -4437.5 248 1348 SO1	1328	SO1013	-4167.5	248
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1335 SO1020 -4272.5 118 1336 SO1021 -4287.5 248 1337 SO1022 -4302.5 148 1338 SO1028 -4317.5 248 1339 SO1024 -4832.5 118 1340 SO1025 4347.5 248 1341 SO1026 -4362.5 118 1342 SO1027 -4377.5 248 1343 SO1028 -4392.5 198 1344 SO1029 -4407.5 248 1343 SO1029 -4492.5 118 1344 SO1034 -4437.5 248 1345 SO1034 -4437.5 248 1348 SO1032 -4452.5 118 1350 SO1034 -4497.5 248 1351 SO1036 -4512.5 118 1352 SO1037 -4527.5 248 1353 SO1038 -4542.5 118 1354 SO10	1333	SO1018	-4242.5	118
1336 SO1021 -4287.5 248 1337 SO1022 -4392.5 148 1338 SO1023 -4317.5 248 1339 SO1024 -4332.5 118 1340 SO1026 -4362.5 118 1341 SO1028 -4362.5 118 1342 SO1027 -4377.5 248 1343 SO1028 -4392.5 1/8 1343 SO1029 -4407.5 248 1345 SO1030 -4422.5 118 1345 SO1034 -4437.5 248 1348 SO1032 -4452.5 118 1348 SO1033 -4467.5 248 1350 SO1034 -4482.5 118 1351 SO1036 -4512.5 118 1352 SO1037 -4527.5 248 1353 SO1038 -4542.5 118 1354 SO1039 -4557.5 248 1355 SO1	1334	SO1019	-4257.5	248
1337 SO1022 4302.5 148 1338 SO1028 4317.5 248 1339 SO1024 -4832.5 118 1340 SO1025 4347.5 248 1341 SO1026 -4362.5 118 1342 SO1027 -4377.5 248 1343 SO1028 -4392.5 118 1344 SO1032 -4407.5 248 1345 SO1034 -4437.5 248 1348 SO1032 -4452.5 118 1349 SO1034 -4467.5 248 1349 SO1034 -4497.5 248 1350 SO1035 -4497.5 248 1351 SO1036 -4512.5 118 1352 SO1037 -4527.5 248 1353 SO1038 -4542.5 118 1354 SO1039 -4557.5 248 1355 SO1040 -4572.5 118 1356 SO1041	1335	SO1020	-4272.5	118
1338 SO1028 4317.5 248 1339 SO1024 -4382.5 118 1340 SO1025 4347.5 248 1341 SO1026 -4362.5 118 1342 SO1027 4377.5 248 1343 SO1028 4392.5 118 1344 SO1030 -4407.5 248 1345 SO1031 -4437.5 248 1348 SO1032 -4452.5 118 1348 SO1033 -4467.5 248 1349 SO1034 -4497.5 248 1351 SO1036 -4497.5 248 1351 SO1036 -4512.5 118 1352 SO1037 -4527.5 248 1353 SO1039 -4542.5 118 1354 SO1039 -4572.5 118 1355 SO1040 -4572.5 148 1357 SO1042 -4602.5 118 1358 SO1044<	1336	SO1021	-4287.5	248
1339 SQ1024 -4\$32.5 118 1340 SQ1025 4347.5 248 1341 SQ1026 -4362.5 118 1342 SQ1027 -4377.5 248 1343 SQ1028 4392.5 1/8 1344 SQ1028 4407.5 248 1345 SQ1030 -4427.5 248 1348 SQ1032 -4452.5 118 1348 SQ1032 -4452.5 118 1349 SQ1034 -4482.5 118 1350 SQ1035 -4497.5 248 1351 SQ1036 -4512.5 118 1352 SQ1037 -4527.5 248 1353 SQ1038 -4542.5 118 1354 SQ1039 -4557.5 248 1355 SQ1040 -4572.5 118 1356 SQ1040 -4572.5 118 1357 SQ1040 -4572.5 118 1358 SQ1041 -4587.5 248 1357 SQ1042 -4602.5 118 1358 SQ1043 -4617.5 248 1359 SQ1044 -4632.5 118 1360 SQ1045 -4647.5 248 1361 SQ1046 -4662.5 118 1362 SQ1047 -4677.5 248 1363 SQ1048 -4692.5 118	1337	SO1022	-4302.5	1884
1340 SO 1025 4347.5 248 1341 SO 1026 -4362.5 118 1342 SO 1026 44392.5 1/8 1344 SO 1026 44392.5 1/8 1344 SO 1026 4407.5 248 1345 SO 1032 -4452.5 118 1348 SO 1032 -4452.5 118 1350 SO 1035 -4497.5 248 1351 SO 1036 -4512.5 118 1352 SO 1037 -4527.5 248 1353 SO 1036 -4512.5 118 1354 SO 1037 -4527.5 248 1355 SO 1036 -4572.5 118 1356 SO 1040 -4572.5 118 1356 SO 1041 -4587.5 248 1357 SO 1042 -4602.5 118 1358 SO 1043 -4617.5 248 1359 SO 1044 -4632.5 118 1360 SO 1045 -4647.5 248 1361 SO 1046 -4662.5 118 1362 SO 1047 -4677.5 248 1363 SO 1048 -4692.5 118	1338	SO1028	317.5	248
341 \$01026 -4362.5 118 1348 \$01027 4377.5 248 1345 \$01030 -4427.5 248 1345 \$01030 -4427.5 248 1348 \$01032 -4452.5 118 1348 \$01032 -4452.5 118 1349 \$01034 -4482.5 118 1350 \$01035 -4497.5 248 1351 \$01036 -4512.5 118 1352 \$01037 -4527.5 248 1353 \$01038 -4542.5 118 1354 \$01039 -4557.5 248 1355 \$01040 -4572.5 118 1356 \$01040 -4572.5 118 1357 \$01040 -4572.5 118 1358 \$01041 -4682.5 118 1360 \$01045 -4647.5 248 1361 \$01046 -4662.5 118 1362 \$01047 -4677.5 248 1363 \$01046 -4692.5 118 1362 \$01047 -4677.5 248 1363 \$01048 -4692.5 118 1363 1363 1363 1363 13	1339	SQ1024	-4882.5	118
1348 SO1027 43775 248 1344 SO1028 44075 248 1345 SO1030 4427.5 118 1346 SO1031 -4437.5 248 1347 SO1032 -4452.5 118 1348 SO1033 -4467.5 248 1349 SO1034 -4482.5 118 1350 SO1035 -4497.5 248 1351 SO1036 -4512.5 118 1352 SO1037 -4527.5 248 1353 SO1038 -4542.5 118 1354 SO1039 -4557.5 248 1355 SO1040 -4572.5 118 1356 SO1041 -4587.5 248 1357 SO1042 -4602.5 118 1358 SO1043 -4617.5 248 1359 SO1044 -4632.5 118 1360 SO1045 -4647.5 248 1361 SO1046 -4662.5 118 1362 SO1047 -4677.5 248 1363 SO1048 -4692.5 118	1340	SØ2025	4347.5	248
343 SO1028 4392.5 J8 1344 \$61028 4407.5 248 1345 \$O1030 -4437.5 248 1346 \$O1034 -4437.5 248 1348 \$O1032 -4452.5 118 1349 \$O1034 -4482.5 118 1350 \$O1035 -4497.5 248 1351 \$O1036 -4512.5 118 1352 \$O1037 -4527.5 248 1353 \$O1039 -4557.5 248 1354 \$O1039 -4557.5 248 1355 \$O1040 -4572.5 118 1356 \$O1041 -4587.5 248 1357 \$O1042 -4602.5 118 1358 \$O1043 -4617.5 248 1359 \$O1044 -4632.5 118 1360 \$O1045 -4647.5 248 1361 \$O1046 -4662.5 118 1362 \$O1047<	1341	\$Q1026	-4362.5	118
1344 601029 -4407 248 1345 SO 030 -4422.5 118 1346 SO 1034 -4437.5 248 1347 80 1032 -4452.5 118 1348 SO 1033 -4467.5 248 1349 SO 1034 -4482.5 118 1350 SO 1035 -4497.5 248 1351 SO 1036 -4512.5 118 1352 SO 1037 -4527.5 248 1353 SO 1038 -4542.5 118 1354 SO 1039 -4557.5 248 1355 SO 1040 -4572.5 118 1356 SO 1040 -4587.5 248 1357 SO 1042 -4602.5 118 1358 SO 1043 -4617.5 248 1359 SO 1044 -4632.5 118 1360 SO 1045 -4647.5 248 1361 SO 1046 -4662.5 118 1362	1348	\$O1027	-4377 5	248
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846 SO1034 -4437.5 248 847 801032 -4452.5 118 1348 SO1033 -4467.5 248 1349 SO1034 -4482.5 118 1350 SO1035 -4497.5 248 1351 SO1036 -4512.5 118 1352 SO1037 -4527.5 248 1353 SO1038 -4542.5 118 1354 SO1039 -4557.5 248 1355 SO1040 -4587.5 248 1356 SO1041 -4587.5 248 1357 SO1042 -4602.5 118 1358 SO1043 -4617.5 248 1359 SO1044 -4632.5 118 1360 SO1045 -4647.5 248 1361 SO1046 -4662.5 118 1362 SO1047 -4677.5 248 1363 SO1048 -4692.5 118	1344	601029	-4407.5	248
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1348 SO1033 -4467.5 248 1349 SO1034 -4482.5 118 1350 SO1035 -4497.5 248 1351 SO1036 -4512.5 118 1352 SO1037 -4527.5 248 1353 SO1038 -4542.5 118 1354 SO1039 -4557.5 248 1355 SO1040 -4572.5 118 1356 SO1041 -4587.5 248 1357 SO1042 -4602.5 118 1358 SO1043 -4617.5 248 1359 SO1044 -4632.5 118 1360 SO1045 -4647.5 248 1361 SO1046 -4662.5 118 1362 SO1047 -4677.5 248 1363 SO1048 -4692.5 118	1346	\$01031	-4437.5	248
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1350 SO1035 -4497.5 248 1351 SO1036 -4512.5 118 1352 SO1037 -4527.5 248 1353 SO1038 -4542.5 118 1354 SO1039 -4557.5 248 1355 SO1040 -4572.5 118 1356 SO1041 -4587.5 248 1357 SO1042 -4602.5 118 1358 SO1043 -4617.5 248 1359 SO1044 -4632.5 118 1360 SO1045 -4647.5 248 1361 SO1046 -4662.5 118 1362 SO1047 -4677.5 248 1363 SO1048 -4692.5 118	1348	SO1033	-4467.5	248
1351 SO1036 -4512.5 118 1352 SO1037 -4527.5 248 1353 SO1038 -4542.5 118 1354 SO1039 -4557.5 248 1355 SO1040 -4572.5 118 1356 SO1041 -4587.5 248 1357 SO1042 -4602.5 118 1358 SO1043 -4617.5 248 1359 SO1044 -4632.5 118 1360 SO1045 -4647.5 248 1361 SO1046 -4662.5 118 1362 SO1047 -4677.5 248 1363 SO1048 -4692.5 118	1349	SO1034	-4482.5	118
1352 SO1037 -4527.5 248 1353 SO1038 -4542.5 118 1354 SO1039 -4557.5 248 1355 SO1040 -4572.5 118 1356 SO1041 -4587.5 248 1357 SO1042 -4602.5 118 1358 SO1043 -4617.5 248 1359 SO1044 -4632.5 118 1360 SO1045 -4647.5 248 1361 SO1046 -4662.5 118 1362 SO1047 -4677.5 248 1363 SO1048 -4692.5 118	1350	SO1035	-4497.5	248
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1355 SO1040 -4572.5 118 1356 SO1041 -4587.5 248 1357 SO1042 -4602.5 118 1358 SO1043 -4617.5 248 1359 SO1044 -4632.5 118 1360 SO1045 -4647.5 248 1361 SO1046 -4662.5 118 1362 SO1047 -4677.5 248 1363 SO1048 -4692.5 118	1353	SO1038	-4542.5	118
1356 SO1041 -4587.5 248 1357 SO1042 -4602.5 118 1358 SO1043 -4617.5 248 1359 SO1044 -4632.5 118 1360 SO1045 -4647.5 248 1361 SO1046 -4662.5 118 1362 SO1047 -4677.5 248 1363 SO1048 -4692.5 118	1354	SO1039	-4557.5	248
1357 SO1042 -4602.5 118 1358 SO1043 -4617.5 248 1359 SO1044 -4632.5 118 1360 SO1045 -4647.5 248 1361 SO1046 -4662.5 118 1362 SO1047 -4677.5 248 1363 SO1048 -4692.5 118	1355	SO1040	-4572.5	118
1358 SO1043 -4617.5 248 1359 SO1044 -4632.5 118 1360 SO1045 -4647.5 248 1361 SO1046 -4662.5 118 1362 SO1047 -4677.5 248 1363 SO1048 -4692.5 118	1356	SO1041	-4587.5	248
1359 SO1044 -4632.5 118 1360 SO1045 -4647.5 248 1361 SO1046 -4662.5 118 1362 SO1047 -4677.5 248 1363 SO1048 -4692.5 118	1357	SO1042	-4602.5	118
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	1362	SO1047	-4677.5	248
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1365 SO1050 -4722.5 118	1365	SO1050	-4722.5	118

1383	SO1068	-4992.5	118
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1397	SQ1082	-5202.5	118
1398	SO/083	-5217.5	248
1399	SQ108#	-5232.5	118
1400	SO1085	-5247.5	248
) 401	SO1086	-5262.5	118
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1403	SO1088	-5292.5	118
1404	SO1089	-5307.5	248
1405	SO1090	-5322.5	118
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1414	SO1099	-5457.5	248
1415	SO1100	-5472.5	118
1416	SO1101	-5487.5	248
1417	SO1102	-5502.5	118
1418	SO1103	-5517.5	248
1419	SO1104	-5532.5	118
1420	SO1105	-5547.5	248
1421	SO1106	-5562.5	118
1422	SO1107	-5577.5	248
1423	SO1108	-5592.5	118
1424	SO1109	-5607.5	248
1425	SO1110	-5622.5	118

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1306	SO991	-3837.5	248	1366	SO1051	-4737.5	248		1426	SO1111	-5637.5	248		
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1308	SO993	-3867.5	248	1368	SO1053	-4767.5	248		1428	SO1113	-5667.5	248		
1309	SO994	-3882.5	118	1369	SO1054	-4782.5	118		1429	SO1114	-5682.5	118		
1310	SO995	-3897.5	248	1370	SO1055	-4797.5	248		1430	SO1115	-5697.5	248		
1311	SO996	-3912.5	118	1371	SO1056	-4812.5	118		1431	SO1116	-5712.5	118		
1312	SO997	-3927.5	248	1372	SO1057	-4827.5	248		1432	SO1117	-5727.5	248		
1313	SO998	-3942.5	118	1373	SO1058	-4842.5	118		1433	SO1118	-5742.5	148		
1314	SO999	-3957.5	248	1374	SO1059	-4857.5	248		1434	SO1119	-57 5 7.5	248		
1315	SO1000	-3972.5	118	1375	SO1060	-4872.5	118		1435	SO1120	-6 ₹ 72. 5	118		
1316	SO1001	-3987.5	248	1376	SO1061	-4887.5	248		1436	507121	-57875	248		
1317	SO1002	-4002.5	118	1377	SO1062	-4902.5	118		1437	SO1122	5802.5	118		
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1319	SO1004	-4032.5	118	1379	SO1064	-4932.5	118		1489	\$01124	-5832.5	118		
1320	SO1005	-4047.5	248	1380	SO1065	-4947.5	248		1440	SO1125	5847.5	248		
1321	SO1006	-4062.5	118	1381	SO1066	-4962.5	1784		1441	SQ 1126	-5862.5	118		
1322	SO1007	-4077.5	248	1382	SO1067	-49₹7.5	248		1442	SO1127	-5877.5	248		
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1446	SO1131	-5937.5	248
1447	SO1132	-5952.5	118
1448	SO1133	-5967.5	248
1449	SO1134	-5982.5	118
1450	SO1135	-5997.5	248
1451	SO1136	-6012.5	118
1452	SO1137	-6027.5	248
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1456	SO1141	-6087.5	248
1457	SO1142	-6102.5	118
1458	SO1143	-6117.5	248
1459	SO1144	-6132.5	118
1460	SO1145	-6147.5	248
1461	SO1146	-6162.5	118
1462	SO1147	-6177.5	248
1463	SO1148	-6192.5	118
1464	SO1149	-6207.5	248
1465	001150	-6222.5	118
1-05	SO1150	0442.191	110
1466	801151	62375	248
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1466 1467 1468	801151 801752 S01153	-6252.5 -6267.5	248 118 248
1466 1467 1468 1469	801151 801152 S01153 S01154	-62375 -6252.5 -6267.5 -6282.5	248 118 248 118
1466 1467 1468 1469 1470	801151 801752 S01153 S01154 S01155	-6237 5 -6252.5 -6267.5 -6282.5 -6297.5	248 118 248 118 248
1466 1467 1468 1469 1470 1471	801151 801752 S01153 S01154 S01155 S01156	-6237 5 -6252.5 -6267.5 -6282.5 -6297.5 -6312.5	248 118 248 118 248 118
1466 1467 1468 1469 1470 1471	801 51 801 52 SO1 53 SO1154 SO1155 SO1156 SO1157	-6237 5 -6252.5 -6267.5 -6282.5 -6297.5 -6312.5 -6327.5	248 118 248 118 248 118 248
1466 1467 1468 1469 1470 1471 1472	\$01.51 \$01.52 \$01.53 \$01154 \$01155 \$01156 \$01157 \$01158	-6237\s -6252.5 -6267.5 -6282.5 -6297.5 -6312.5 -6327.5 -6342.5	248 118 248 118 248 118 248 118
1466 1467 1468 1469 1470 1471 1472 1473	801 51 801 52 SO1153 SO1154 SO1155 SO1156 SO1157 SO1158 SO1159	-6237\5 -6252.5 -6267.5 -6282.5 -6297.5 -6312.5 -6327.5 -6342.5 -6357.5	248 118 248 118 248 118 248 118 248
1466 1467 1468 1469 1470 1471 1472 1473 1474	\$01.51 \$01.52 \$01.53 \$01154 \$01155 \$01156 \$01157 \$01158 \$01159 \$01160	-6237\s -6252.5 -6267.5 -6282.5 -6297.5 -6312.5 -6327.5 -6342.5 -6372.5	248 118 248 118 248 118 248 118 248 118
1466 1467 1468 1469 1470 1471 1472 1473 1474 1475	\$01151 \$0152 \$0153 \$01154 \$01155 \$01156 \$01157 \$01158 \$01159 \$01160 \$01161	-6237\s -6252.5 -6267.5 -6282.5 -6297.5 -6312.5 -6327.5 -6342.5 -6357.5 -6372.5 -6387.5	248 118 248 118 248 118 248 118 248 118 248
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1466 1467 1468 1469 1470 1471 1472 1473 1474 1475 1476 1477	\$01.51 \$01.52 \$01.53 \$01.154 \$01.155 \$01.156 \$01.157 \$01.158 \$01.159 \$01.160 \$01.161 \$01.162 \$01.163	-6237\s -6252.5 -6267.5 -6282.5 -6312.5 -6312.5 -6342.5 -6357.5 -6372.5 -6387.5 -6402.5 -6417.5	248 118 248 118 248 118 248 118 248 118 248 118 248 118
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1504	SO1189	-6807.5	248
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1510	SO1195	-6897.5	248
1511	SO1196	-6912.5	118
1512	SO1197	-6927.5	248
1513	SO1198	-6942.5	118
1514	SO1199	-6957.5	248
1515	SO1200	-6972.5	118
1516	SO1201	-6987.5	248
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1520	SO 205	7047.5	248
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1522	\$O1207	-Z07V(5	248
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1526	\$01214	-7137.5	248
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1531	SO1216	-7212.5	118
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1533	SO1218	-7242.5	118
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1537	SO1222	-7302.5	118
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1543	SO1228	-7392.5	118
1544	SO1229	-7407.5	248
1545	SO1230	-7422.5	118

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1		SO1249	-7707 5	040
1	1505		1101.0	248
H	1565	SO1250	-7722.5	118
L	1566	SO1251	-7737.5	248
- ['	1567	SO1252	-7752.5	118
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1	1573	SO1258	7842.5	118
⋖	1574	\$01259	-7857.5	248
1	1575	\$01260	-7872.5	118
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1	1588	SO1273	-8067.5	248
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1	1597	SO1282	-8202.5	118
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1	1601	SO1286	-8262.5	118
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1	1603	SO1288	-8292.5	118
1	1604	SO1289	-8307.5	248
1	1605	SO1290	-8322.5	118
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1487	SO1172	-6552.5	118	1547	SO1232	-7452.5	118		1607	SO1292	-8352.5	118	
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1490	SO1175	-6597.5	248	1550	SO1235	-7497.5	248		1610	SO1295	-8397.5	248	
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1494	SO1179	-6657.5	248	1554	SO1239	-7557.5	248		1614	SO1299	-84 5 7.5	248	\searrow
1495	SO1180	-6672.5	118	1555	SO1240	-7572.5	118		1615	SO1300	-8472.5	118	
1496	SO1181	-6687.5	248	1556	SO1241	-7587.5	248		1616	SO1301	\-8487\5	248	
1497	SO1182	-6702.5	118	1557	SO1242	-7602.5	118		1617	SO1302	8502.5	118	
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1502	SO1187	-6777.5	248	1562	SO1247	≥76 7 7.5	248		1622	SO1307	-8577.5	248	
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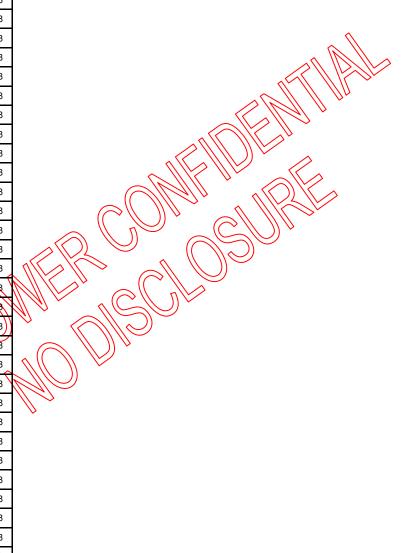
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1688 SO1373 -9567.5 248 1689 SO1374 -9582.5 118 1690 SO1375 -9597.5 248 1691 SO1376 -9612.5 118 1692 SO1377 -9627.5 248 1693 SO1378 -9642.5 118 1694 SO1379 -9657.5 248 1695 SO1380 -9672.5 118 1696 SO1381 -9687.5 248 1697 SO1382 -9782.5 118 1698 SO1388 -9782.5 118 1699 SO1388 -9782.5 118 1700 SO1388 -9782.5 118 1701 SO1388 -9762.5 118 1702 SO1388 -9762.5 118 1703 SO1389 -9802.5 118 1704 SO1389 -9802.5 118 1705 SO390 -9822.5 118 1708 SO13	1686	SO1371	-9537.5	248
1689 SO1374 -9582.5 118 1690 SO1375 -9597.5 248 1691 SO1376 -9612.5 118 1692 SO1377 -9627.5 248 1693 SO1378 -9642.5 118 1694 SO1379 -9657.5 248 1695 SO1380 -9672.5 118 1696 SO1381 -9687.5 248 1697 SO1382 -9762.5 148 1698 SO1384 -9732.5 118 1699 SQ1384 -9732.5 118 1704 SQ1386 -9762.5 118 1709 SQ1387 -9762.5 118 1704 SQ1386 -9762.5 118 1705 SQ390 -9822.5 118 1704 SQ1384 -9837.5 248 1705 SQ390 -9822.5 118 1706 SQ1391 -9887.5 248 1709 SQ139	1687	SO1372	-9552.5	118
1690 SO1375 -9597.5 248 1691 SO1376 -9612.5 118 1692 SO1377 -9627.5 248 1693 SO1378 -9642.5 118 1694 SO1379 -9657.5 248 1695 SO1380 -9672.5 118 1696 SO1381 -9687.5 248 1697 SO1382 -9762.5 148 1698 SO1383 -947.5 248 1699 SO1384 -9782.5 118 1790 SO1385 -9747.5 248 1704 SO1386 -9762.5 118 1702 SO1387 -977.5 248 1704 SO1389 -9807.5 248 1705 SO390 -9822.5 118 1706 SO1391 -9837.5 248 1705 SO1393 -9867.5 248 1709 SO1394 -9882.5 118 1710 SO1395	1688	SO1373	-9567.5	248
1691 SO1376 -9612.5 118 1692 SO1377 -9627.5 248 1693 SO1378 -9642.5 118 1694 SO1379 -9657.5 248 1695 SO1380 -9672.5 118 1696 SO1381 -9687.5 248 1697 SO1382 -9782.5 118 1698 SO1388 -9717.5 248 1699 SO1384 -9782.5 118 1700 SO1385 9747.5 248 1701 SO1386 -9762.5 118 1702 SO1386 -9762.5 118 1703 SO1387 -977.5 248 1704 SO1388 -9807.5 248 1705 SO390 -9822.5 118 1704 SO1394 -9837.5 248 1705 SO1394 -9882.5 118 1709 SO1394 -9882.5 118 1710 SO1395	1689	SO1374	-9582.5	118
1692 SO1377 -9627.5 248 1693 SO1378 -9642.5 118 1694 SO1379 -9657.5 248 1695 SO1380 -9672.5 118 1696 SO1381 -9687.5 248 1697 SO1382 -9792.5 148 1698 SO1383 -9717.5 248 1699 SO1384 -9782.5 118 1700 SO1385 -9747.5 248 1701 SO1386 -9762.5 118 1702 SO1387 -977.5 248 1703 SO1387 -977.5 248 1704 SO1389 -9792.5 118 1705 SO390 -9822.5 118 1705 SO390 -9822.5 118 1708 SO1394 -9837.5 248 1709 SO1394 -9882.5 118 1710 SO1395 -9897.5 248 1711 SO1397<	1690	SO1375	-9597.5	248
1693 SO1378 -9642.5 118 1694 SO1379 -9657.5 248 1695 SO1380 -9672.5 118 1696 SO1381 -9687.5 248 1697 SO1382 -9702.5 148 1698 SO1388 -9732.5 118 1699 SO1384 -9782.5 118 1700 SO1385 -9747.5 248 1701 SO1386 -9762.5 118 1702 SO1387 -9762.5 118 1703 SO1387 -9762.5 118 1704 SO1388 -9792.5 1/8 1705 SO390 -9827.5 248 1705 SO1391 -9837.5 248 1707 SO1393 -9867.5 248 1709 SO1394 -9882.5 118 1710 SO1395 -9897.5 248 1711 SO1396 -9912.5 118 1712 SO13	1691	SO1376	-9612.5	118
1694 SO1379 -9657.5 248 1695 SO1380 -9672.5 118 1696 SO1381 -9687.5 248 1697 SO1382 -9702.5 148 1698 SO1388 -9717.5 248 1699 SQ1384 -9732.5 118 1790 SQ1388 -9762.5 118 1704 SQ1388 -9762.5 118 1703 SQ1387 -9777.5 248 1704 SQ1388 -9762.5 118 1704 SQ1388 -9762.5 118 1704 SQ1388 -9762.5 118 1705 SQ390 -9822.5 118 1705 SQ390 -9827.5 248 1705 SQ1392 -9852.5 118 1708 SQ1393 -9867.5 248 1709 SQ1394 -9882.5 118 1710 SQ1395 -9897.5 248 1711 SQ139	1692	SO1377	-9627.5	248
1695 SO1380 -9672.5 118 1696 SO1381 -9687.5 248 1697 SO1382 -9762.5 148 1698 SO1388 -9717.5 248 1699 SQ1384 -9732.5 118 1790 SQ1385 -9747.5 248 1704 SQ1386 -9762.5 118 1702 SQ1387 -977.5 248 1703 SQ1388 -9792.5 118 1704 SQ1389 -9807.5 248 1705 SQ1390 -9822.5 118 1706 SQ1394 -9837.5 248 1708 SQ1393 -9867.5 248 1709 SQ1394 -9882.5 118 1710 SQ1395 -9897.5 248 1711 SQ1396 -9912.5 118 1712 SQ1397 -9927.5 248 1713 SQ1398 -9942.5 118 1714 SQ13	1693	SO1378	-9642.5	118
1696 SO1381 -9687.5 248 1697 SO1382 -9782.5 148 1698 SO1388 -9717.5 248 1699 SO1384 -9782.5 118 1700 SO1385 9747.5 248 1701 SO1386 -9762.5 118 1702 SO1386 -9762.5 118 1703 SO1386 -9762.5 118 1704 SO1386 -9762.5 118 1705 SO390 -9822.5 118 1705 SO390 -9822.5 118 1705 SO1394 -9837.5 248 1709 SO1394 -9852.5 118 1710 SO1393 -9867.5 248 1711 SO1395 -9897.5 248 1711 SO1396 -9912.5 118 1712 SO1397 -9927.5 248 1713 SO1398 -9942.5 118 1714 SO1399	1694	SO1379	-9657.5	248
1697 SO1382 -9762.5 148 1698 SO1388 -9732.5 118 1699 SO1384 -9732.5 118 1700 SO1385 9747.5 248 1701 SO1386 -9762.5 118 1702 SO1387 -977.5 248 1703 SO1388 -9792.5 1/8 1704 SO1380 -9807.5 248 1705 SO390 -9822.5 118 1705 SO1391 -9837.5 248 1705 SO1392 -9852.5 118 1708 SO1393 -9867.5 248 1709 SO1394 -9882.5 118 1710 SO1395 -9897.5 248 1711 SO1396 -9912.5 118 1712 SO1397 -9927.5 248 1713 SO1398 -9942.5 118 1714 SO1399 -9957.5 248 1715 SO1400	1695	SO1380	-9672.5	118
1698 SO1388 99 17.5 248 1699 SO1384 -9782.5 118 1790 SO1385 9747.5 248 707 SO1386 -9762.5 118 1702 SO1387 97 7 5 248 1703 SO1388 9792.5 18 1704 SO1389 9802.5 248 1705 SO390 -9827.5 248 1705 SO1391 -9837.5 248 1707 SO1392 -9852.5 118 1709 SO1393 -9867.5 248 1710 SO1393 -9867.5 248 1711 SO1395 -9897.5 248 1711 SO1396 -9912.5 118 1712 SO1397 -9927.5 248 1713 SO1398 -9942.5 118 1714 SO1399 -9957.5 248 1715 SO1400 -9972.5 118 1716 SO1400 <td>1696</td> <td>SO1381</td> <td>-9687.5</td> <td>248</td>	1696	SO1381	-9687.5	248
1699 SQ1384 -9782.5 118 1790 SQ1385 9747.5 248 1701 SQ1386 -9762.5 118 1702 SQ1387 9777.5 248 1703 SQ1388 9792.5 118 1704 SQ1388 9807.5 248 1705 SQ390 -9822.5 118 1706 SQ1391 -9837.5 248 1707 SQ1392 -9852.5 118 1708 SQ1393 -9867.5 248 1709 SQ1394 -9882.5 118 1710 SQ1395 -9897.5 248 1711 SQ1396 -9912.5 118 1712 SQ1397 -9927.5 248 1713 SQ1398 -9942.5 118 1714 SQ1399 -9957.5 248 1715 SQ1400 -9972.5 118 1716 SQ1401 -9987.5 248 1717 SQ1402 -10002.5 118 1718 SQ1403 -10017.5 248 1719 SQ1404 -10032.5 118 1720 SQ1405 -10047.5 248 1721 SQ1406 -10062.5 118 1722 SQ1407 -10077.5 248 1723 SQ1408 -10092.5 118	1697	SO1382	-9702.5	1884
1700 SO 385 9747.5 248 1701 SO 1386 -9762.5 118 1702 SO 1387 -977.5 248 1703 SO 1388 -9792.5 1/8 1704 SO 1380 -9807.5 248 1705 SO 390 -9822.5 118 1706 SO 1394 -9837.5 248 1708 SO 1393 -9867.5 248 1709 SO 1394 -9882.5 118 1710 SO 1395 -9897.5 248 1711 SO 1396 -9912.5 118 1712 SO 1397 -9927.5 248 1713 SO 1398 -9942.5 118 1714 SO 1399 -9957.5 248 1715 SO 1400 -9972.5 118 1716 SO 1400 -9972.5 118 1717 SO 1400 -9972.5 118 1717 SO 1402 -10002.5 118 1718	1698	SO1388	>9717.5	248
701 \$01386 -9762.5 \$118 702 \$01387 9277.5 \$24 1704 \$01380 9802.5 \$198 1704 \$01380 9802.5 \$248 1705 \$00390 -9822.5 \$118 1705 \$01394 -9837.5 \$248 1707 \$01394 -9852.5 \$118 1709 \$01394 -9882.5 \$118 1710 \$01395 -9897.5 \$248 1711 \$01396 -9912.5 \$118 1712 \$01397 -9927.5 \$248 1713 \$01398 -9942.5 \$118 1714 \$01399 -9957.5 \$248 1715 \$01400 -9972.5 \$118 1716 \$01401 -9987.5 \$248 1717 \$01402 -10002.5 \$118 1718 \$01403 -10017.5 \$248 1719 \$01404 -10032.5 \$118 1720	1699	SQ1384	-9782.5	118
1702 SO1387 9775 248 1703 SO1388 97925 18 1704 SO1389 98075 248 1705 SO390 9822.5 118 1705 SO390 -9837.5 248 1705 SO1394 -9837.5 248 1708 SO1393 -9867.5 248 1709 SO1394 -9882.5 118 1710 SO1395 -9897.5 248 1711 SO1396 -9912.5 118 1712 SO1397 -9927.5 248 1713 SO1398 -9942.5 118 1714 SO1399 -9957.5 248 1715 SO1400 -9972.5 118 1716 SO1400 -9972.5 118 1717 SO1402 -10002.5 118 1718 SO1403 -10017.5 248 1719 SO1404 -10032.5 118 1720 SO1405	1700	SO 385	9747.5	248
303 SO1388 9792 5 18 1704 \$61389 98075 248 1705 \$O1394 -9837.5 248 1706 \$O1394 -9837.5 248 1708 \$O1392 -9852.5 118 1709 \$O1394 -9882.5 118 1710 \$O1395 -9897.5 248 1711 \$O1396 -9912.5 118 1712 \$O1397 -9927.5 248 1713 \$O1398 -9942.5 118 1714 \$O1399 -9957.5 248 1715 \$O1400 -9972.5 118 1716 \$O1401 -9987.5 248 1717 \$O1402 -10002.5 118 1718 \$O1401 -9987.5 248 1717 \$O1402 -10002.5 118 1718 \$O1403 -10017.5 248 1719 \$O1404 -10032.5 118 1720 \$O14	1701	\$01386	-9762.5	118
1704 \$61384 -9807 248 705 \$01394 -9837.5 248 706 \$01394 -9837.5 248 707 \$01392 -9852.5 118 1708 \$01393 -9867.5 248 1709 \$01394 -9882.5 118 1710 \$01395 -9897.5 248 1711 \$01396 -9912.5 118 1712 \$01397 -9927.5 248 1713 \$01398 -9942.5 118 1714 \$01399 -9957.5 248 1715 \$01400 -9972.5 118 1716 \$01401 -9987.5 248 1717 \$01402 -10002.5 118 1718 \$01403 -10017.5 248 1719 \$01404 -10032.5 118 1720 \$01405 -10047.5 248 1721 \$01406 -10062.5 118 1722 \$01	1702	\$01387	9777 5	248
1705 SO(890) -9822.5 118 1706 SO(1394) -9837.5 248 1707 SO(1392) -9852.5 118 1708 SO(1393) -9867.5 248 1709 SO(1394) -9882.5 118 1710 SO(1395) -9897.5 248 1711 SO(1396) -9912.5 118 1712 SO(1397) -9927.5 248 1713 SO(1398) -9942.5 118 1714 SO(1398) -9957.5 248 1715 SO(1400) -9972.5 118 1716 SO(1400) -9972.5 118 1717 SO(1401) -9987.5 248 1717 SO(1402) -10002.5 118 1718 SO(1402) -10002.5 118 1720 SO(1404) -10032.5 118 1721 SO(1405) -10047.5 248 1721 SO(1406) -10062.5 118 <t< td=""><td>1303</td><td>SO1388</td><td>-9792 5</td><td>1)1/8</td></t<>	1303	SO1388	-9792 5	1)1/8
706 \$01394 -9837.5 248 707 801392 -9852.5 118 1708 \$01393 -9867.5 248 1709 \$01394 -9882.5 118 1710 \$01395 -9897.5 248 1711 \$01396 -9912.5 118 1712 \$01397 -9927.5 248 1713 \$01398 -9942.5 118 1714 \$01399 -9957.5 248 1715 \$01400 -9972.5 118 1716 \$01401 -9987.5 248 1717 \$01402 -10002.5 118 1718 \$01403 -10017.5 248 1719 \$01404 -10032.5 118 1720 \$01405 -10047.5 248 1721 \$01406 -10062.5 118 1722 \$01407 -10077.5 248 1723 \$01408 -10092.5 118 1724 <t< td=""><td>1704</td><td>601389</td><td>-9807.5</td><td>248</td></t<>	1704	601389	-9807.5	248
801392 -9852.5 118 1708 SO1393 -9867.5 248 1709 SO1394 -9882.5 118 1710 SO1395 -9897.5 248 1711 SO1396 -9912.5 118 1712 SO1397 -9927.5 248 1713 SO1398 -9942.5 118 1714 SO1399 -9957.5 248 1715 SO1400 -9972.5 118 1716 SO1400 -9987.5 248 1717 SO1402 -10002.5 118 1718 SO1403 -10017.5 248 1719 SO1404 -10032.5 118 1720 SO1405 -10047.5 248 1721 SO1406 -10062.5 118 1722 SO1407 -10077.5 248 1723 SO1408 -10092.5 118 1724 SO1409 -10107.5 248	1705	SO1390	-9822.5	118
1708 SO1393 -9867.5 248 1709 SO1394 -9882.5 118 1710 SO1395 -9897.5 248 1711 SO1396 -9912.5 118 1712 SO1397 -9927.5 248 1713 SO1398 -9942.5 118 1714 SO1399 -9957.5 248 1715 SO1400 -9972.5 118 1716 SO1400 -9972.5 118 1717 SO1402 -10002.5 118 1718 SO1403 -10017.5 248 1719 SO1404 -10032.5 118 1720 SO1405 -10047.5 248 1721 SO1406 -10062.5 118 1722 SO1407 -10077.5 248 1723 SO1408 -10092.5 118 1724 SO1409 -10107.5 248	907	\$01391	-9837.5	248
1709 SO1394 -9882.5 118 1710 SO1395 -9897.5 248 1711 SO1396 -9912.5 118 1712 SO1397 -9927.5 248 1713 SO1398 -9942.5 118 1714 SO1399 -9957.5 248 1715 SO1400 -9972.5 118 1716 SO1401 -9987.5 248 1717 SO1402 -10002.5 118 1718 SO1403 -10017.5 248 1719 SO1404 -10032.5 118 1720 SO1405 -10047.5 248 1721 SO1406 -10062.5 118 1722 SO1407 -10077.5 248 1723 SO1408 -10092.5 118 1724 SO1409 -10107.5 248	1405	8O1392	-9852.5	118
1710 SO1395 -9897.5 248 1711 SO1396 -9912.5 118 1712 SO1397 -9927.5 248 1713 SO1398 -9942.5 118 1714 SO1399 -9957.5 248 1715 SO1400 -9972.5 118 1716 SO1401 -9987.5 248 1717 SO1402 -10002.5 118 1718 SO1403 -10017.5 248 1719 SO1404 -10032.5 118 1720 SO1405 -10047.5 248 1721 SO1406 -10062.5 118 1722 SO1407 -10077.5 248 1723 SO1408 -10092.5 118 1724 SO1409 -10107.5 248	1708	SO1393	-9867.5	248
1711 SO1396 -9912.5 118 1712 SO1397 -9927.5 248 1713 SO1398 -9942.5 118 1714 SO1399 -9957.5 248 1715 SO1400 -9972.5 118 1716 SO1401 -9987.5 248 1717 SO1402 -10002.5 118 1718 SO1403 -10017.5 248 1719 SO1404 -10032.5 118 1720 SO1405 -10047.5 248 1721 SO1406 -10062.5 118 1722 SO1407 -10077.5 248 1723 SO1408 -10092.5 118 1724 SO1409 -10107.5 248	1709	SO1394	-9882.5	118
1712 SO1397 -9927.5 248 1713 SO1398 -9942.5 118 1714 SO1399 -9957.5 248 1715 SO1400 -9972.5 118 1716 SO1401 -9987.5 248 1717 SO1402 -10002.5 118 1718 SO1403 -10017.5 248 1719 SO1404 -10032.5 118 1720 SO1405 -10047.5 248 1721 SO1406 -10062.5 118 1722 SO1407 -10077.5 248 1723 SO1408 -10092.5 118 1724 SO1409 -10107.5 248	1710	SO1395	-9897.5	248
1713 SO1398 -9942.5 118 1714 SO1399 -9957.5 248 1715 SO1400 -9972.5 118 1716 SO1401 -9987.5 248 1717 SO1402 -10002.5 118 1718 SO1403 -10017.5 248 1719 SO1404 -10032.5 118 1720 SO1405 -10047.5 248 1721 SO1406 -10062.5 118 1722 SO1407 -10077.5 248 1723 SO1408 -10092.5 118 1724 SO1409 -10107.5 248	1711	SO1396	-9912.5	118
1714 SO1399 -9957.5 248 1715 SO1400 -9972.5 118 1716 SO1401 -9987.5 248 1717 SO1402 -10002.5 118 1718 SO1403 -10017.5 248 1719 SO1404 -10032.5 118 1720 SO1405 -10047.5 248 1721 SO1406 -10062.5 118 1722 SO1407 -10077.5 248 1723 SO1408 -10092.5 118 1724 SO1409 -10107.5 248	1712	SO1397	-9927.5	248
1715 SO1400 -9972.5 118 1716 SO1401 -9987.5 248 1717 SO1402 -10002.5 118 1718 SO1403 -10017.5 248 1719 SO1404 -10032.5 118 1720 SO1405 -10047.5 248 1721 SO1406 -10062.5 118 1722 SO1407 -10077.5 248 1723 SO1408 -10092.5 118 1724 SO1409 -10107.5 248	1713	SO1398	-9942.5	118
1716 SO1401 -9987.5 248 1717 SO1402 -10002.5 118 1718 SO1403 -10017.5 248 1719 SO1404 -10032.5 118 1720 SO1405 -10047.5 248 1721 SO1406 -10062.5 118 1722 SO1407 -10077.5 248 1723 SO1408 -10092.5 118 1724 SO1409 -10107.5 248	1714	SO1399	-9957.5	248
1717 SO1402 -10002.5 118 1718 SO1403 -10017.5 248 1719 SO1404 -10032.5 118 1720 SO1405 -10047.5 248 1721 SO1406 -10062.5 118 1722 SO1407 -10077.5 248 1723 SO1408 -10092.5 118 1724 SO1409 -10107.5 248	1715	SO1400	-9972.5	118
1718 SO1403 -10017.5 248 1719 SO1404 -10032.5 118 1720 SO1405 -10047.5 248 1721 SO1406 -10062.5 118 1722 SO1407 -10077.5 248 1723 SO1408 -10092.5 118 1724 SO1409 -10107.5 248	1716	SO1401	-9987.5	248
1719 SO1404 -10032.5 118 1720 SO1405 -10047.5 248 1721 SO1406 -10062.5 118 1722 SO1407 -10077.5 248 1723 SO1408 -10092.5 118 1724 SO1409 -10107.5 248	1717	SO1402	-10002.5	118
1720 SO1405 -10047.5 248 1721 SO1406 -10062.5 118 1722 SO1407 -10077.5 248 1723 SO1408 -10092.5 118 1724 SO1409 -10107.5 248	1718	SO1403	-10017.5	248
1721 SO1406 -10062.5 118 1722 SO1407 -10077.5 248 1723 SO1408 -10092.5 118 1724 SO1409 -10107.5 248	1719	SO1404	-10032.5	118
1722 SO1407 -10077.5 248 1723 SO1408 -10092.5 118 1724 SO1409 -10107.5 248	1720	SO1405	-10047.5	248
1723 SO1408 -10092.5 118 1724 SO1409 -10107.5 248	1721	SO1406	-10062.5	118
1724 SO1409 -10107.5 248	1722	SO1407	-10077.5	248
	1723	SO1408	-10092.5	118
1725 SO1410 -10122.5 118	1724	SO1409	-10107.5	248
	1725	SO1410	-10122.5	118

	1743	SO1428	-10392.5	118
	1744	SO1429	-10407.5	248
	1745	SO1430	-10422.5	118
	1746	SO1431	-10437.5	248
	1747	SO1432	-10452.5	118
	1748	SO1433	-10467.5	248
	1749	SO1434	-10482.5	178
	1750	SO1435	-10497.5	248
	1751	SO1436	-10512.5	118
	1752	SQ1437	-10527.5	248
	1753	SO1438	0542.5	118
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/	1755	\$01440	-10572.5	118
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	1757	SQ1442	10602.5	118
	1758	SO1443	-10617.5	248
(1759	SQ14#	-10632.5	118
//	1760	901445	-10647.5	248
J)761	SO1446	-10662.5	118
	1762	SO1447	-10677.5	248
	1763	SO1448	-10692.5	118
	1764	SO1449	-10707.5	248
	1765	SO1450	-10722.5	118
	1766	SO1451	-10737.5	248
	1767	SO1452	-10752.5	118
	1768	SO1453	-10767.5	248
	1769	SO1454	-10782.5	118
	1770	SO1455	-10797.5	248
	1771	SO1456	-10812.5	118
	1772	SO1457	-10827.5	248
	1773	SO1458	-10842.5	118
	1774	SO1459	-10857.5	248
	1775	SO1460	-10872.5	118
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	1777	SO1462	-10902.5	118
	1778	SO1463	-10917.5	248
	1779	SO1464	-10932.5	118
	1780	SO1465	-10947.5	248
	1781	SO1466	-10962.5	118
	1782	SO1467	-10977.5	248
	1783	SO1468	-10992.5	118
	1784	SO1469	-11007.5	248
	1785	SO1470	-11022.5	118
	1785	SO1470	-11022.5	118

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1666	SO1351	-9237.5	248	1726	SO1411	-10137.5	248		1786	SO1471	-11037.5	248	
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1668	SO1353	-9267.5	248	1728	SO1413	-10167.5	248		1788	SO1473	-11067.5	248	
1669	SO1354	-9282.5	118	1729	SO1414	-10182.5	118		1789	SO1474	-11082.5	118	
1670	SO1355	-9297.5	248	1730	SO1415	-10197.5	248		1790	SO1475	-11097.5	248	
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1672	SO1357	-9327.5	248	1732	SO1417	-10227.5	248		1792	SO1477	-11127.5	248	
1673	SO1358	-9342.5	118	1733	SO1418	-10242.5	118		1793	SO1478	-11142.5	11/8	
1674	SO1359	-9357.5	248	1734	SO1419	-10257.5	248		1794	SO1479	-11157.5	248	
1675	SO1360	-9372.5	118	1735	SO1420	-10272.5	118		1795	SO1480	11172.6	118	
1676	SO1361	-9387.5	248	1736	SO1421	-10287.5	248		1796	SO(1481	11187.5	248	
1677	SO1362	-9402.5	118	1737	SO1422	-10302.5	118		1797	SO1482	-11202.5	118	
1678	SO1363	-9417.5	248	1738	SO1423	-10317.5	248	7	1798	SQ1483	-11217.5	248	
1679	SO1364	-9432.5	118	1739	SO1424	-10332.5	118	//	1799	\$01484	-11232.5	118	
1680	SO1365	-9447.5	248	1740	SO1425	-10347.5	248		1800	SO1485	11247,5	248	
1681	SO1366	-9462.5	118	1741	SO1426	-10362.5	1784		1801	SQ 1486	11262.5	118	
1682	SO1367	-9477.5	248	1742	SO1427	10377.5	248		1802	SO1487	-11277.5	248	
											V		

1803	SO1488	-11292.5	118
1804	SO1489	-11307.5	248
1805	SO1490	-11322.5	118
1806	SO1491	-11337.5	248
1807	SO1492	-11352.5	118
1808	SO1493	-11367.5	248
1809	SO1494	-11382.5	118
1810	SO1495	-11397.5	248
1811	SO1496	-11412.5	118
1812	SO1497	-11427.5	248
1813	SO1498	-11442.5	118
1814	SO1499	-11457.5	248
1815	SO1500	-11472.5	118
1816	SO1501	-11487.5	248
1817	SO1502	-11502.5	118
1818	SO1503	-11517.5	248
1819	SO1504	-11532.5	118
1820	SO1505	-11547.5	248
1821	SO1506	-11562.5	118
1822	SO1507	-11577.5	248
1823	SO1508	-11592.5	118
1824	SO1509	11607,5	248)
1825	SO1510	11622.5	118
1826	\$01511	-11637:5	248
1827	SØ7512	-11652.5	118
1828	SQ1513	-11667.5	248
1829	SO1514	-11682.5	118
1830	SO1515	-11697.5	248
1831	SO1516	-11712.5	118
1832	SO1517	-11727.5	248
1833	SO1518	-11742.5	118
1834	SO1519	-11757.5	248
1835	SO1520	-11772.5	118
1836	SO1521	-11787.5	248
1837	SO1522	-11802.5	118
1838	SO1523	-11817.5	248
1839	SO1524	-11832.5	118
1840	SO1525	-11847.5	248
1841	SO1526	-11862.5	118
1842	SO1527	-11877.5	248
1843	SO1528	-11892.5	118
1844	SO1529	-11907.5	248
1845	SO1530	-11922.5	118

1863	STV1R(STV)	-12303	3
1864	F_CtrlR(CLK4)	-12403	-37
1865	STBNR	-12303	-77



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1846 SO1531 1847 SO1532 1848 SO1533 1849 SO1534 1850 SO1535 1851 SO1536	-11937.5 -11952.5 -11967.5 -11982.5 -11997.5	248 118 248 118	
1848 SO1533 1849 SO1534 1850 SO1535 1851 SO1536	-11967.5 -11982.5	248	
1849 SO1534 1850 SO1535 1851 SO1536	-11982.5		1
1850 SO1535 1851 SO1536	_	118	
1851 SO1536	-11997.5		
		248	
1852 SHIFLDING	-12012.5	118	
1002 OF HELDING	-12055	263	
1853 COM1_OUT	-12105	263	
1854 COM1_OUT	-12155	263	
1855 SHIELDING	-12205	263	
1856 F_CtrlR(CLK4	1) -12403	283	
1857 OEVR(CLK3)) -12303	243	
1858 SYNC1R	-12403	203	
1859 SYNC2R	-12303	163	
1860 UDR(CLK2)	-12403	123	
1861 CKVR(CLK1)	-12303	83	
1862 STV2R(STV)	-12403	43	

18. REVISION HISTORY

Reversion	Content	Date
1.0	New issue	2013/11/26





Appendix A : BIST pattern
R→G→B→Black→White→Color Bar→Horizontal 256 gray scale→Vertical 256 gray scale→Crosstalk pattern →Chess board (L255/L0)→Flicker pattern→Black background with white out frame

