MODEL ： INC-3207FHEEAPC-U

Zero Bezel with PCAP Touchscreen
LED Illumination on Edge and Front, 4 Sides
12V RGB LEDs, w/o IC

Revision	Date	History
V0.1	2024.10.30	Initial Release.
V1.0	2024.11.06	Added Touch Screen Model Name : PJT0010
V1.1	2025.02.05	Changed AD Board INB1001CL → INB1017
V1.2	2025.02.26	Changed Touch Screen Model Name PJT0010 →P1-320C-24981A-1B
V1.3	2025.03.13	Changed Touch Screen Model Name P1-320C-24981A-1B → P1-320C-24981A-1B(REV1)

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Approved : _____ **Date :** _____

Contents

1. General Description

1.1 Overview

- **INNODISPLAY Closed-frame LCD Monitor INC-3207FHEEAPC-U is a high performance TFT LCD monitor providing a high quality screen image.**
- **This monitor supports DP, HDMI and VGA input. Other input options are available.**
- **Wide input resolution range up to Full HD (1920 x 1080@60Hz).**
- **It is designed for industrial use with Auto power on, up scaling performance adequate for low-resolution applications and enhanced design margin for reliability.**
- **It is available in matching touch and non-touch designs.**

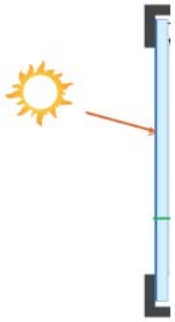
1.2 General Specifications

LCD Panel	**Size**	**31.5" Diagonal**
	Active Display Area	**698.4(H) x 392.85(V)mm**
	Type No.	**BOE DV320FHM-NN0**
	Number of Pixels	**1920 (H) x 1080 (V)**
	Pixel Arrangement	**RGB Vertical Stripe**
	Pixel Pitch	**0.36375mm x 0.36375mm**
	Color Depth	**16.7M True Colors**
	Surface Treatments	**Haze 1%**
	Viewing Angle (CR>10)	**R/L: 178 degree (89/89)** **U/D: 178 degree (89/89)**
	Contrast Ratio	**Typ. 1200 : 1**
	Response Time(Typ.)	**8.0ms**
	Average Brightness	**Typ. 400 cd/ m^2**
	Frame Rate	**Typ. 60Hz**
	Backlight Unit	**LED**
Input Resolution	**Prime**	**1920 x 1080 @ 60 Hz**
	Standard	**640x480@60/75Hz,** **800x600@60/75Hz,** **1024x768@60/75Hz,** **1280x1024@60/75Hz, 1280x720@60Hz** **1366x768@60Hz, 1600x900@60Hz,** **1680x1050@60Hz, 1920x1080@60Hz**

Input Signal Port	Analog VGA	15pin D-Sub x 1Port
	HDMI	19pin HDMI Jack x 1 Port
	DP(Display Port)	20Pin DP Jack x 1Port
	Audio Input VGA	Phone Jack 3.5Ø
	Power Jack (DC 24V Input)	Power Mini-Din 4P
Scanning Frequency	Horizontal	30 ~130Khz
	Vertical	55 ~75Hz
OSD Control		Menu, Select, Up, Down, Power
Plug & Play		VESA DDC 2B Ver1.3
Touchscreen	Touch Panel	P-CAP Touch : 32.0" Edge-Slim Touch / 10 Point (P1-320C-24981A-1B(REV1))
	Controller	COB Type / IL2322 IC
	Controller Interface	USB 2.0 Type "B"
LED Frame Illumination (Without Controller)		Edge / Front Type, 4 sided
		LED Type : w/o IC Type (WS-L5050-RGB-K3)
		Supports External 12V RGB-Type LED Lighting Controller
		Interface Port : Molex 43020-0600
RoHS		RoHS2 Compliance
Mounting Options		200(H) x 200(V)mm M6 VESA Mounting Holes
Optional Accessories		Cables, Power Supply

Application Caution

1. Precautions for strong light exposure.
Strong light exposure causes degradation of polarizer and color filter.



2. Using Conditions.
- Temperature inside the cabinet should be controlled 'at room temp' (0 ~ 40ºC) by cooler and fan.

1.3 Environmental and Reliability Specification

- **This specification depends on the LCD panel characteristics. Please refer to the manufacturer's panel specification for details.**

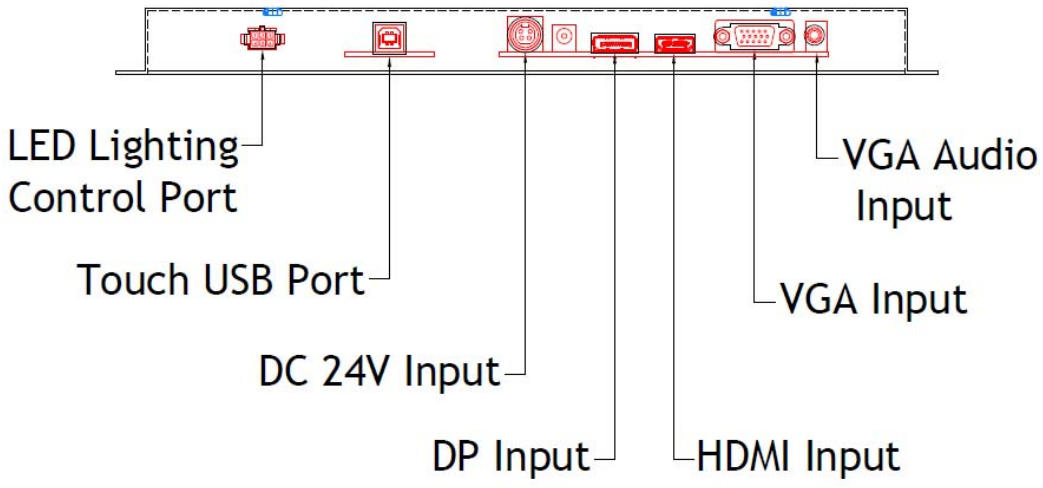
Item	Symbol	Min	Max	Unit
Operating Temperature	TOP	0	+50	°C
Operating Humidity	HOP	10	90	%
Storage Temperature	TST	-20	+60	°C
Storage Humidity	HST	10	90	%

1.4 Power Supply Rating

Optional PSU Input Voltage	AC 100 ~ 240VAC,50/60Hz			
Optional PSU Output Voltage	DC 24V / 5.0A			
Monitor DC Input Voltage	24VDC			
Power Consumption	TBD			
LED String Lighting Specification (w/o IC RGB 12V Type)	Min	Typ.	Max	Unit
Input Voltage	11.4	12.0	12.6	[V]
Input Current		TBD		[A]
Power Consumption		TBD		[W]

- **Conditions of Measurement**
  1) **LED pattern: LED Bar full white light, non-scrolling.**
  2) **Current consumption tolerance: + 10%.**

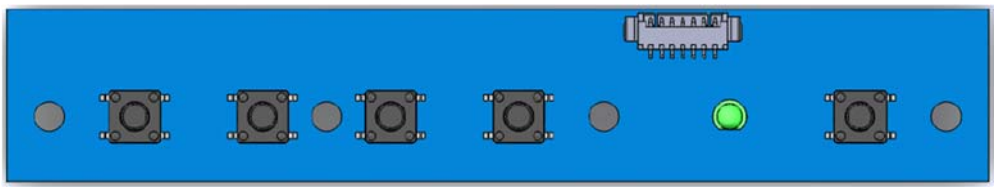
1.5 Input/Output Port

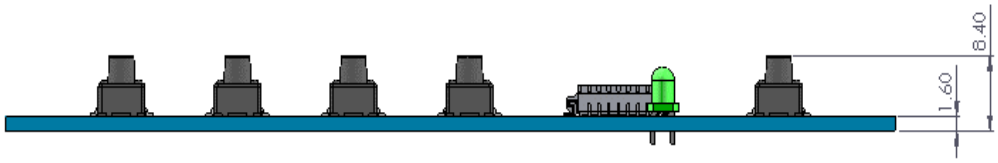


2. User Control & OSD

2.1 Key Control Board

K002





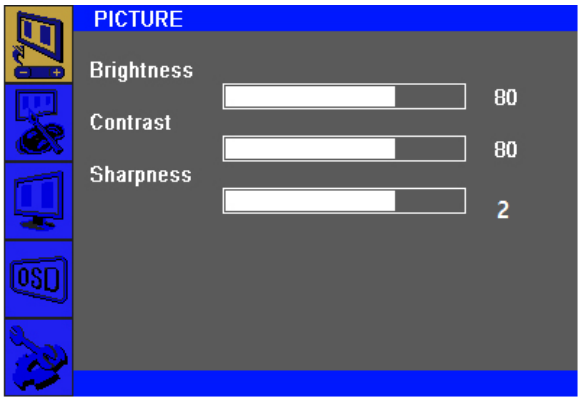
Button	Function	Status	HOT Key
LED	Indicates operation status	Green : Normal State Red : Off Mode Green Blinking : DPMS Mode	
POWER	Power on/off		
MENU	Enable MENU Window Disable MENU Window Exit from Sub function		
SELECT	Select function		No OSD Window, Input Source Change
DOWN	Move to Down or Left		No OSD Window, Auto Color
UP	Move to Up or Right		No OSD Window, Auto Configuration

2.2 OSD Control Function

The chosen OSD settings will be stored in memory. The OSD menu can be cleared from the screen by pressing the MENU button otherwise it will be automatically cleared after a few second of non-use.

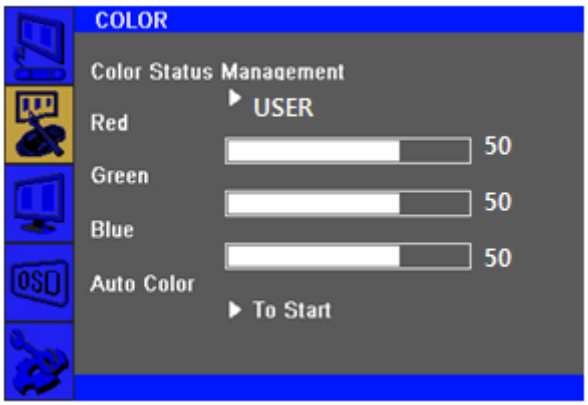
2.2.1 OSD Main Menu

1) PICTURE



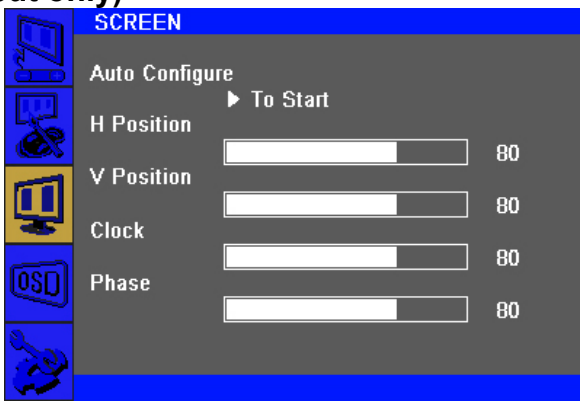
Brightness (0 ~ 100)	**Increases/decreases monitor Brightness. Default: 100**
Contrast (0 ~ 100)	**Increases/decreases monitor Contrast. Default: 100**
Sharpness (0 ~ 4)	**Adjusts Sharpness of the displayed images. Default : 2**

2) COLOR



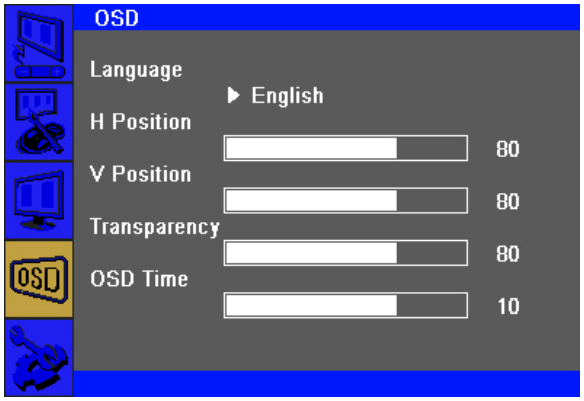
Color Status Management	**Selects the display's color temperature. The available color settings "Normal", "Warm", "Cool", "User" mode. Default : User**
Red (0 ~ 100)	**Increases/decreases Red Color Temperature. Default : 50**
Green (0 ~ 100)	**Increases/decreases Green Color Temperature. Default : 50**
Blue (0 ~ 100)	**Increases/decreases Blue Color Temperature. Default : 50**
Auto Color	**Automatically adjusts the system color to the input VGA.**

3) SCREEN (VGA Input only)



Auto Configure	**Automatically adjusts the system clock to the input VGA.**
H Position (0 ~ 100)	**Moves the image horizontally on the display in single-pixel increments. Default : 50**
V Position (0 ~ 100)	**Moves the image vertically on the display in single-pixel increments. Default : 50**
Clock (0 ~ 100)	**Allows fine adjustments of the panel's pixel dot clock. Default : 50**
Phase (0 ~ 100)	**Allows fine adjustments of the panel's pixel dot clock phase. Default : 50**
WXGA Mode	**Selects WXGA Mode Off, 1024 x 768, 1280 x 768, 1360 x 768, 1366 x 768 Default : Off**

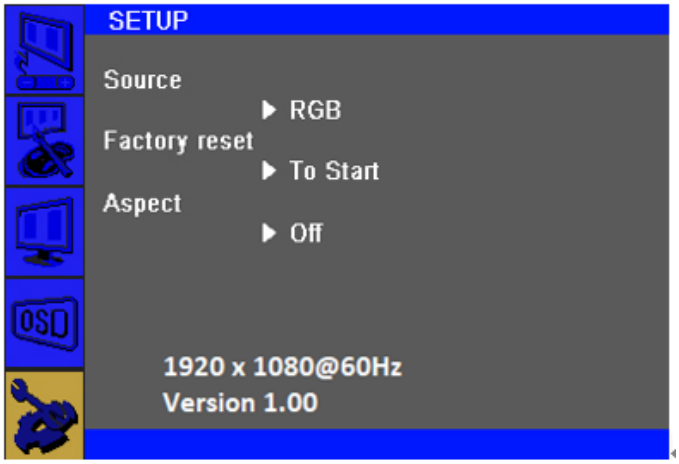
4) OSD



Language	**Selects the OSD's display language. The available languages are English, Deutsch, Français, Italiano, Español, Korean. Default : English**
H Position (0 ~ 100)	**Adjusts the horizontal location of the OSD menus on the display. Default : 50**

V Position (0 ~ 100)	Adjusts the vertical location of the OSD menus on the display. Default : 50
Transparency (0 ~ 100)	Adjusts the transparency of the OSD menus on the display. Default : 33
OSD Time (0 ~ 60)	Adjusts how long the touch monitor will wait without OSD button activity before closing the OSD. The adjustable range is between 0 and 60 seconds. Default : 10

1) SETUP

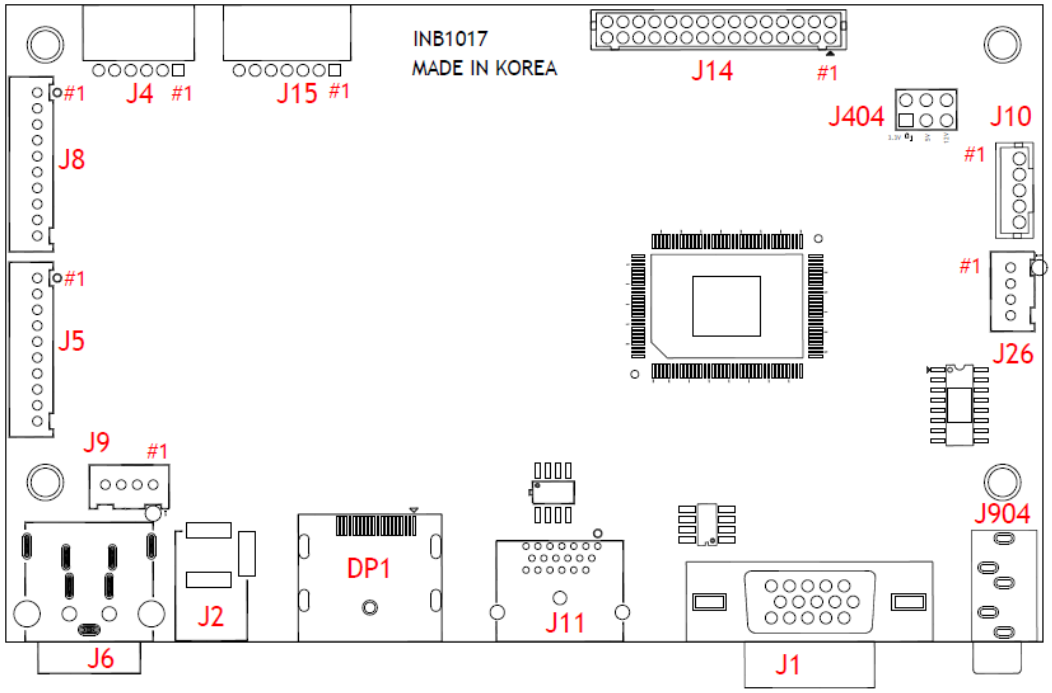


[Input Source]

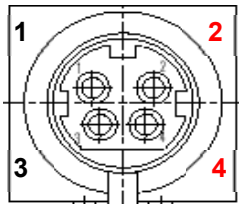
Source	Selects Input Source VGA (RGB), DP, HDMI, Auto
Factory reset	Restores all factory default settings for OSD-adjustable parameters and for Preset Video Mode timings.
Aspect	Switches the scaling method between Full Scaling and Maintain Aspect Ratio. Default : Full

3. Connector Description

3.1 Summary

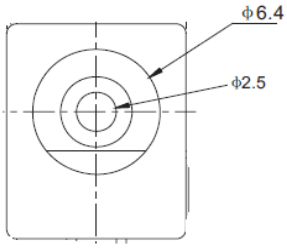


Reference	Item	Description	Type	Manufacture
J6	Jack	24V Input DC Power Jack (Optional)	KPJ-4S	-
J2	Jack	12V Input DC Power Jack (Optional)	DC-005	
J9	Connector	Input DC Power Connector	20010WS-04	YEONHO
DP1	Jack	DP Input Connector	20P DP Jack	
J11	Connector	HDMI Input(TMDS) Connector	HDMI 19P	-
J1	Connector	VGA Input Connector	15P D-SUB	-
J904	Jack	Phone Jack (Stereo) Audio Input	3.5Ø	
J5,J8	Connector	Backlight Inverter Connector	20010WS-10	YEONHO
J4	Connector	5V/12V DC Power Output	SMAW200-06	YEONHO
J15	Connector	OSD Board Connector	SMAW200-07	YEONHO
J14	Connector	LCD Interface Connector (2CH LVDS)	YDW200-30	YEONHO
J10	Connector	Auto-Dimming/RS232 Connector	SMW200-05	YEONHO
J26	Connector	Speaker Output	20010WS-04	YEONHO



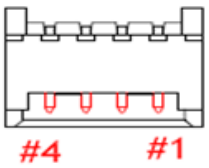
3.2 J6 :24VDC Power Input Jack

Pin No.	Symbol	Description
1,3	GND	Ground
2,4	VCC	24VDC



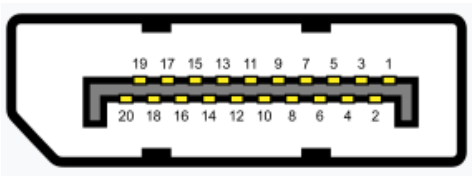
3.3 J2: 12VDC Power Input Jack (Optional)

Pin No.	Symbol	Description
-	GND	Ground
+	VCC	12VDC



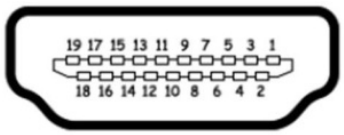
3.4 J9: 12VDC/24VDC Power Input Connector : 20010WS-04 (Yeonho or EQ)

Pin No.	Symbol	Description
1	VCC	12VDC or 24VDC
2	VCC	12VDC or 24VDC
3	GND	Ground
4	GND	Ground



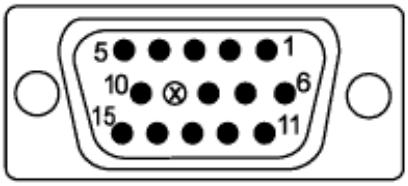
3.5 DP1: DP Input Connector

Pin No.	Symbol	Description
1	LANE3-	Component Signal for Main Link 3
3	LANE3+	True Signal for Main Link 3
4	LANE2-	Component Signal for Main Link 2
6	LANE2+	True Signal for Main Link 2
7	LANE1-	Component Signal for Main Link 1
9	LANE1+	True Signal for Main Link 1
10	LANE0-	Component Signal for Main Link 0
12	LANE0+	True Signal for Main Link 0
13	CA DET	No Connection
14	DP DET+	No Connection
15	AUX CH+	True Signal for Auxiliary Channel
16	GND	Ground
17	AUX CH-	Component Signal for Auxiliary Channel
18	+5V Power	Identify the presence of a monitor
19	RETURN	No Connection
20	PWR OUT	No Connection



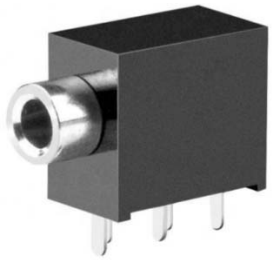
3.6 J11: HDMI Input (TMDS) Connector

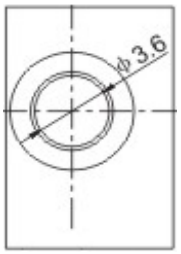
Pin No.	Symbol	Description
1	TMDS DATA2-	TMDS DATA2 Differential Negative Signal
2	TMDS DATA2+	TMDS DATA2 Differential Positive Signal
3	TMDS DATA2 Shield	Shield for TMDS Channel #2
4	TMDS DATA1-	TMDS DATA1 Differential Negative Signal
5	TMDS DATA1+	TMDS DATA1 Differential Positive Signal
6	TMDS DATA1 Shield	Shield for TMDS Channel #1
7	TMDS DATA0-	TMDS DATA0 Differential Negative Signal
8	TMDS DATA0+	TMDS DATA0 Differential Positive Signal
9	TMDS DATA0 Shield	Shield for TMDS Channel #0
10	TMDS CLOCK Shield	Shield for TMDS Clock differential Pair
11	TMDS CLOCK+	TMDS DATA0 Differential Positive Signal
12	TMDS CLOCK-	TMDS DATA0 Differential Negative Signal
13	CEC	CEC Function
14	NC	No Connection
15	DDC Clock	DDC Clock Signal
16	DDC data	DDC Data Signal
17	GND	Ground
18	+5V Power	+5V Power
19	HPD	Identify the presence of a monitor

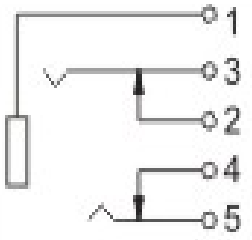


3.7 J1: VGA Input Connector

Pin No.	Symbol	Description
1	RED	Red Analog Input
2	GREEN	Green Analog Input
3	BLUE	Blue Analog Input
4	GND	Ground
5	GND	Ground
6	GND	Ground
7	GND	Ground
8	GND	Ground
9	NC	No Connection
10	GND	Ground
11	GND	Ground
12	DSDA	DDC-SDA
13	HSYNC	Horizontal Sync
14	VSYNC	Vertical Sync
15	DSCL	Serial Clock Input

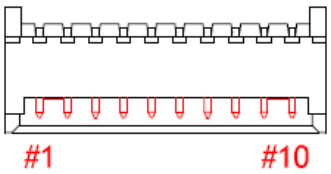






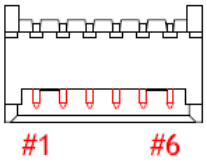
3.8 J904: Audio Input (RGB Input Only)

Pin No.	Symbol	Description
1	GND	GND
2	AR IN-	Sound Right Input
3	AR IN+	Sound Right Ground
4	AL IN-	Sound Left Ground
5	AL IN+	Sound Left Input



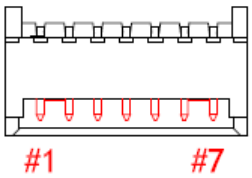
3.9 J5,J8: Backlight Inverter Connector : 20010WS-10 (Yeonho or EQ)

Pin No.	Symbol	Description
10	DIM-ADJ	DIM-adjustment Analog diming or PWM control signal. * make sure inverter specification (Firmware Optional)
9	ON/OFF	Inverter digital ON(5.0V)/OFF(0V) signal.
5,6,7,8	GND	Ground
1,2,3,4	VCC	12VDC or 24VDC



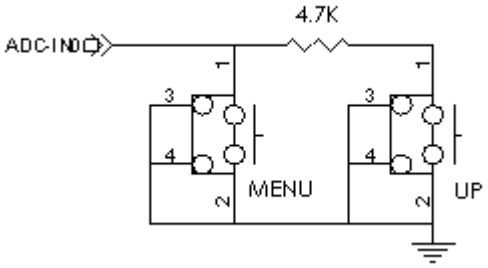
3.10 J4: DC Power Output : SMAW200-06 (Yeonho or EQ)

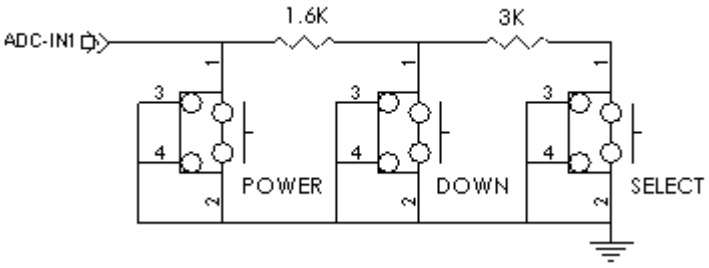
Pin No.	Symbol	Description
1,2	VCC	12VDC
3,4	VCC	5VDC
5,6	GND	Ground

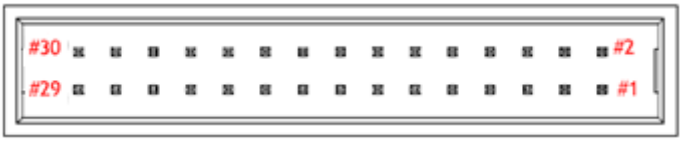


3.11 J15: OSD Board Connector : SMAW200-07 (Yeonho or EQ)

Pin No.	Symbol	Description
1	VCC	+5V Power for IR sensor
2	IRQ	Infrared rays signal line.
3	LED1	Green LED
4	LED2	Red LED
5	GND	Ground
6	ADC-IN0	Menu, Up
7	ADC-IN1	Power, Down, Up

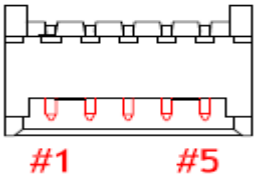






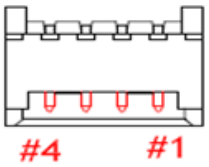
3.12 J14: LVDS Interface Connector (8bit 2Ch LVDS)
: YDW200-30 (Yeonho or EQ)

Pin No.	Symbol	Description
1	MOD_PWR	Panel Power (12V, 5V or 3.3V)
2	MOD_PWR	Panel Power (12V, 5V or 3.3V)
3	Option	High/Low for LCD Option
4	MOD_PWR	Panel Power (12V, 5V or 3.3V)
5	NC	No Connection
6	NC	No Connection
7	GND	Ground
8	GND	Ground
9	Y3N-EVEN	Negative(-) LVDS differential second 3 data
10	Y3P-EVEN	Positive(+) LVDS differential second 3 data
11	YCN-EVEN	Negative(-) LVDS differential second Clock
12	YCP-EVEN	Positive(+) LVDS differential second Clock
13	Y2N-EVEN	Negative(-) LVDS differential second 2 data
14	Y2P-EVEN	Positive(+) LVDS differential second 2 data
15	Y1N-EVEN	Negative(-) LVDS differential second 1 data
16	Y1P-EVEN	Positive(+) LVDS differential second 1 data
17	Y0N-EVEN	Negative(-) LVDS differential second 0 data
18	Y0P-EVEN	Positive(+) LVDS differential second 0 data
19	GND	Ground
20	GND	Ground
21	Y3N- ODD	Negative(-) LVDS differential first 3 data
22	Y3P-ODD	Positive(+) LVDS differential first 3 data
23	YCN- ODD	Negative(-) LVDS differential first Clock
24	YCP- ODD	Positive(+) LVDS differential first Clock
25	Y2N- ODD	Negative(-) LVDS differential first 2 data
26	Y2P- ODD	Positive(+) LVDS differential first 2 data
27	Y1N- ODD	Negative(-) LVDS differential first 1 data
28	Y1P- ODD	Positive(+) LVDS differential first 1 data
29	Y0N- ODD	Negative(-) LVDS differential first 0 data
30	Y0P- ODD	Positive(+) LVDS differential first 0 data



3.13 J10: Auto-Diming / RS232 Connector : SMW200-05 (Yeonho or EQ)

Pin No.	Symbol	Description
1	5VDC	VCC 5V
2	RS232 TX	RS232 TX
3	RS232 RX	RS232 RX
4	Auto- Backlight	Auto-Diming
5	GND	Ground



3.14 J26 : Speaker Output : 20010WS-04 (Yeonho or EQ)

Pin No.	Symbol	Description
1	R+	Sound Right Output
2	R-	Sound Right Output
3	L+	Sound Left Output
4	L-	Sound Left Output

4. Standard Display Modes

ITEM	STD	Resolution	Pixel Frequency (MHz)	Vertical Frequency (Hz)	Horizontal Frequency (KHz)	Sync. Polarity (H/V)	Remark
1	VESA	640*480	25.200	60.000	31.500		VGA
2	VESA	640*480	31.500	75.000	37.500		VGA
3	VESA	800*600	40.000	60.317	37.879		SVGA
4	VESA	800*600	49.500	75.000	46.875		SVGA
5	VESA	1024*768	65.000	60.000	48.363		XGA
6	VESA	1024*768	78.750	75.029	60.023		XGA
7		1152*864	94.500	60.012	63.851		
8		1280*720	74.501	59.856	44.772		WXGA
9		1366*768	72.000	59.960	47.368		WXGA
10	VESA	1280*1024	108.000	60.020	63.981		SXGA
11	VESA	1280*1024	135.000	75.025	79.976		
12		1680*1050	146.250	59.954	65.290		WSXGA+
13		1600* 900	118.998	55.920	60.000		
14		1920*1080	138.500	59.934	66.587		
15		1920*1080	148.500	60.000	67.500		1080P
16		1920*1080	148.352	59.940	67.433		1080P

5. LED Backlight Driver Board Specification

5.1 Electrical Specification

Item	Symbol	Spec	Unit	Remarks
Input Voltage 1	Vin	23.0 ~25.0	V	
Input Voltage 2	ON / OFF	0 ~ 5.0	V	
Operating Temperature	TOP	0 ~ 50	℃	
Storage Temperature	Tstg	-20 ~60	℃	
Relative Humidity	RH	80	%	

5.2 Control Signal

Item	Symbol	Status	Action	Remarks
CN1 #12	ON/OFF	HIGH	LED-ON	5.0V
		LOW	LED-OFF	0V

5.3 Output Characteristics

NO	Item	Symbol	Min	Type	Max	Unit
1	Input Voltage	Vin	20.8	24	26	V
2	Input Current	Iin		0.7	2	A
3	Input Power	Pin		36	52	W
4	Brightness Voltage	Vadj	0(bright)	---	5（dark）	V
5	Control Voltage	Enable Von=1.5---5.0V Disable Voff=0---0.5V				

Item	Symbol	Test Conditions	Min	Type	Max	Unit
Output Current (per group)	Iout	Vin=24.0V; Vout=57V; Ta=28℃		540	750	mA
Output Voltage	Vout	Vin=24.0V; Ta=28℃	30	66	85	V
Efficiency	η	Vin=24.0V; Vout=57V;		92.5		%
Output otal group	Ggp			1		
The Total Output Current	R	According to the backlight parameters to adjust output current		540	750	MA
output power	W out	Vin=24.0V; Vout=30-85V;		36	63.75	W

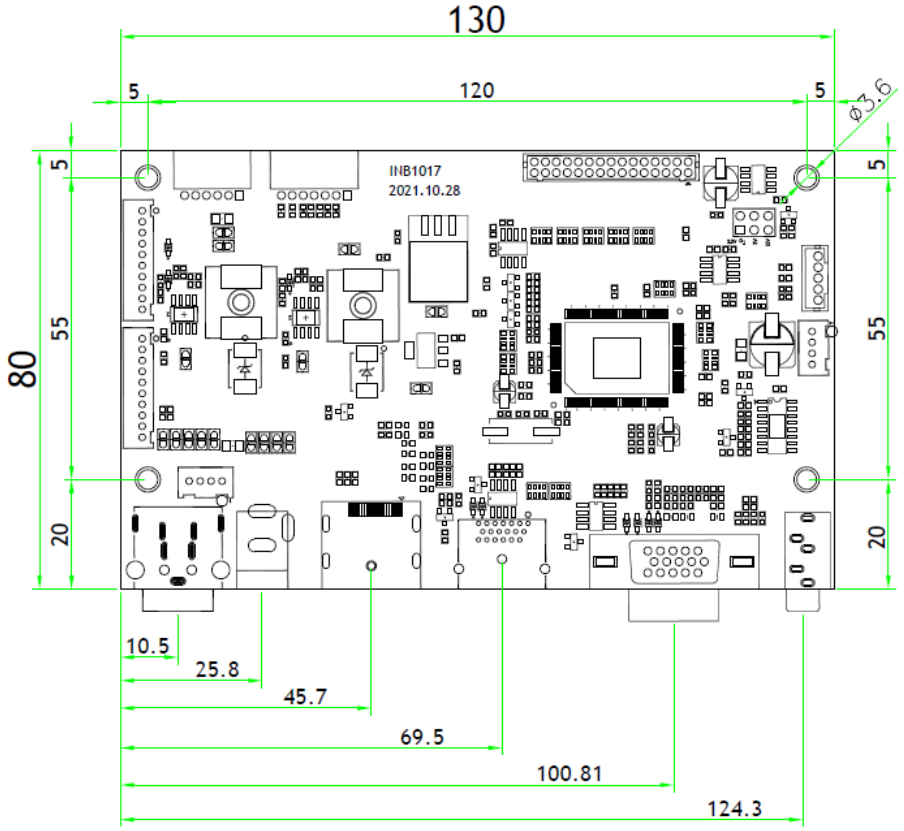
5.4 Interface

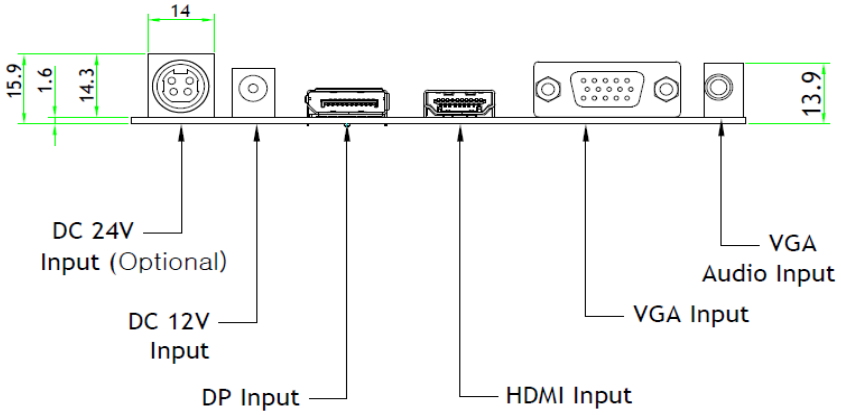
5.4.1 CN1 Connector: 20010WR-14 (YeonHo) or EQ

Pin	Symbol	Remarks
1,2,3,4,5	Vin	Input Voltage 24VDC
6,7,8,9,10	GND	GND
12	On/Off	Backlight On/Off (5V:On, 0V : Off)
13	PDIM	External PWM
14, 11	NC	No Connection

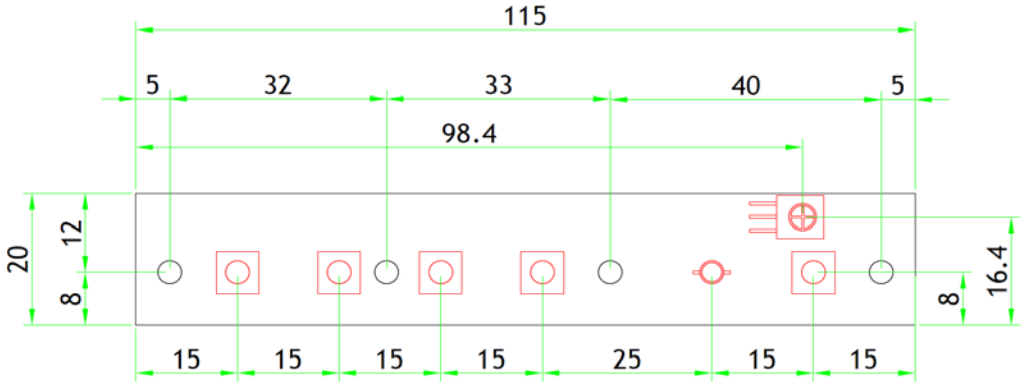
6. Board Dimensions

6.1 AD Board (INB1017) Dimension (130.0mm x 80.0mm x 15.9mm)





6.2 OSD Board (K002) Dimension (115mm x 20mm x 8.7mm)



7. LED Lighting Control Interface Specification

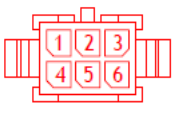
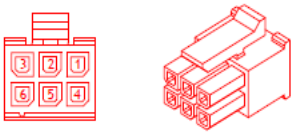
7.1 Connector Spec

- Connector: Molex 43020-0600

- Matching Housing: Molex 43025-0600

7.2 External LED Connector Pin Map

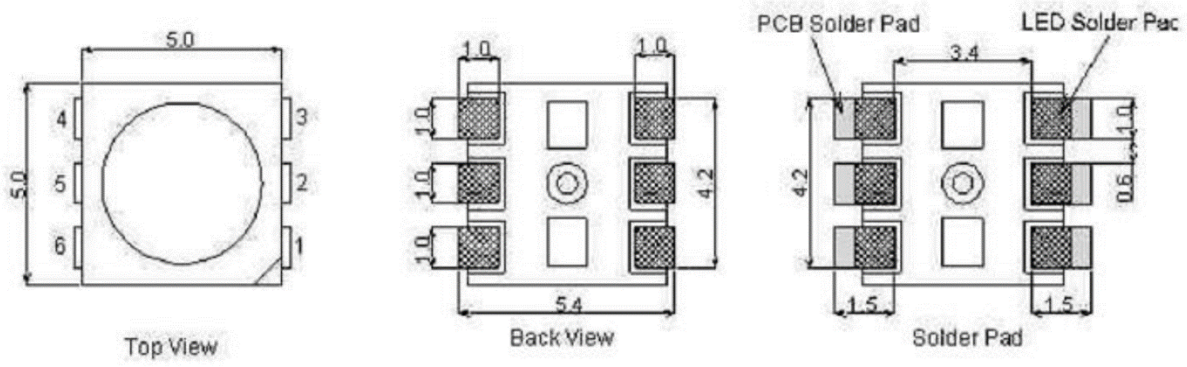
7.2.1 Without IC LED Strip

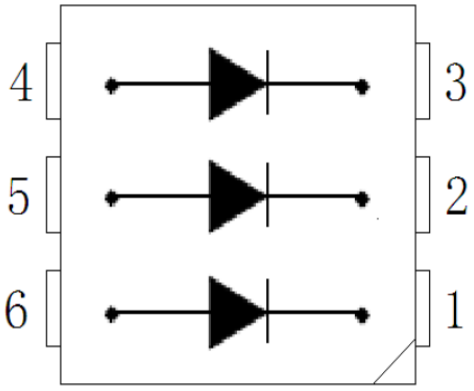
Strip Type LED Port Composition (21.5" ~ 55.0" w/o IC 6Pin , 12V/RGB)			
Pin No	Monitor Description	Female Connector (Molex 43020-0600)	Male Connector (Molex 43025-0600)
P1	RED		
P2	GREEN		
P3	BLUE		
P4	VCC 12V		
P5	GND		
P6	NC		

Pin No	Symbol	Remark
1	RED	Red LED Control Line
2	GRN	Green LED Control Line
3	BLU	Blue LED Control Line
4	VCC	VCC 12V Input
5	GND	GND
6	NC	Not Connection

7.3 LED (WS-L5050-RGB-K3) Spec

7.3.1 LED (WS-L5050-RGB-K3) Pin Configuration





引出端功能 PIN Function

序号 ITM	符号 Symbol	管脚名 PIN
1	R-	RED NEGATIVE
2	G-	GREEN NEGATIVE
3	B-	BLUE NEGATIVE
4	B+	BLUE POSITIVE
5	G+	GREEN POSITIVE
6	R+	RED POSITIVE

8. P-CAP Touchscreen Specification

8.1 Touch Controller Specifications

-TBD

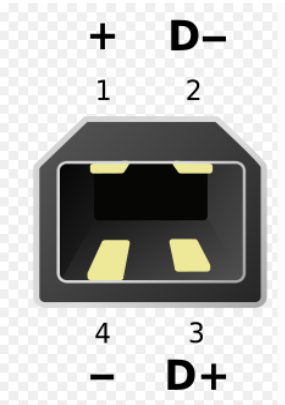
8.2 Touch Control Board Dimension (100.0mm x 30.0mm)

8.3. USB Connector (USB 2.0, Type “B”)

Number	Signal Name
1	+5V
2	D-
3	D+
4	GND

8.4. Touch Screen Dimension (461.0mm x 767.0mm x 4.4mm)

8.5. USB Interface Port



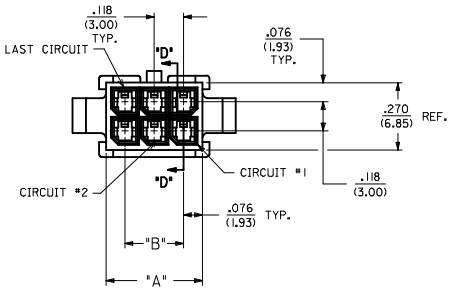
9. Packing Information

Item	Q’ty	Dimension (W x H x D)	Weight(Kg)	Remark
Closed Frame	1Pcs	461.0mm x 767.0mm x 61.3mm	TBD	
Box Packing			TBD	
Pallet Size			TBD	
Pallet Packing			TBD	

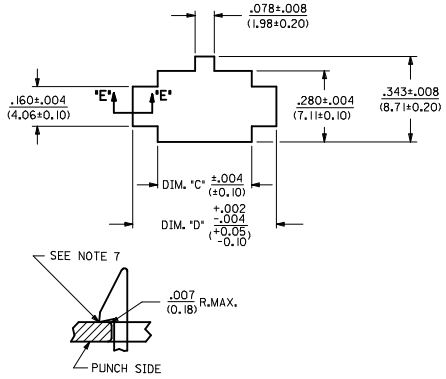
10. Mechanical structure

ASSEMBLY ITEM NUMBER	PART CHARACTERISTICS		
	NUMBER OF POSITION	PANEL MOUNT OPTION	MATERIAL
43020-0200	02	YES	"B"
43020-0201	02	NO	
43020-0400	04	YES	
43020-0401	04	NO	
43020-0600	06	YES	
43020-0601	06	NO	
43020-0800	08	YES	
43020-0801	08	NO	
43020-1000	10	YES	
43020-1001	10	NO	
43020-1200	12	YES	
43020-1201	12	NO	
43020-1400	14	YES	
43020-1401	14	NO	
43020-1600	16	YES	
43020-1601	16	NO	
43020-1800	18	YES	
43020-1801	18	NO	
43020-2000	20	YES	
43020-2001	20	NO	
43020-2200	22	YES	
43020-2201	22	NO	
43020-2400	24	YES	
43020-2401	24	NO	

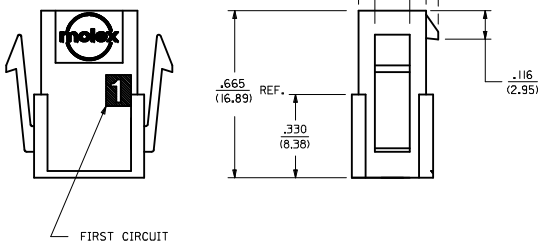
CKT. NO.	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"
2	.152/(3.86)	N/A	.166/(4.21)	.311/(7.90)
4	.270/(6.85)	.118/(3.00)	.284/(7.21)	.429/(10.90)
6	.388/(9.85)	.236/(6.00)	.402/(10.21)	.547/(13.89)
8	.506/(12.85)	.354/(9.00)	.520/(13.21)	.665/(16.89)
10	.624/(15.85)	.472/(12.00)	.638/(16.21)	.783/(19.89)
12	.742/(18.85)	.591/(15.00)	.756/(19.21)	.901/(22.89)
14	.860/(21.85)	.709/(18.00)	.874/(22.20)	1.019/(25.88)
16	.978/(24.85)	.827/(21.00)	.992/(25.20)	1.137/(28.88)
18	1.096/(27.85)	.945/(24.00)	1.110/(28.20)	1.255/(31.88)
20	1.215/(30.85)	1.063/(27.00)	1.229/(31.22)	1.373/(34.87)
22	1.333/(33.85)	1.181/(30.00)	1.347/(34.22)	1.491/(37.87)
24	1.451/(36.85)	1.299/(33.00)	1.465/(37.22)	1.609/(40.87)

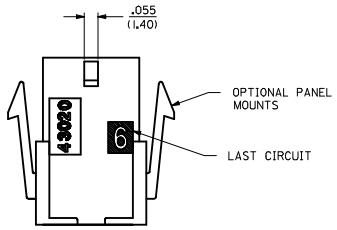


NOTES:
1) HOUSING MATERIAL:
   "A" - UNFILLED POLYESTER, RATED U.L. 94V-0, COLOR IS BLACK.
   "B" - UNFILLED NYLON, RATED U.L. 94V-0, HALOGEN-FREE, COLOR IS BLACK.
2) FINISH: N/A
3) PRODUCT SPECIFICATION: PS-43045
4) PACKAGING SPECIFICATION: PK-43020-001
5) THIS HOUSING MATES WITH MICRO-FIT RECEPTACLE #43025-****
6) THIS HOUSING TO BE USED WITH MOLEX MALE TERMINAL #43031-****
7) DESIGNED FOR .055/(1.4) MINIMUM TO A .100/(2.54) MAXIMUM THICK PANEL OR PRINTED CIRCUIT BOARD.
8) SEE SECTION "D"-"D" FOR TERMINAL ORIENTATION IN HOUSING.
9) PANEL MOUNT FEATURES MUST LOCK ON SIDE OPPOSITE PUNCH SIDE FOR OPTIMUM RETENTION.
10) PART CONFORMS TO CLASS 'B' REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002. SOME HOUSINGS MAY HAVE A SMALL GATE BLEMISH NEAR THE GATE LOCATION THAT DOES NOT AFFECT FUNCTIONALITY.

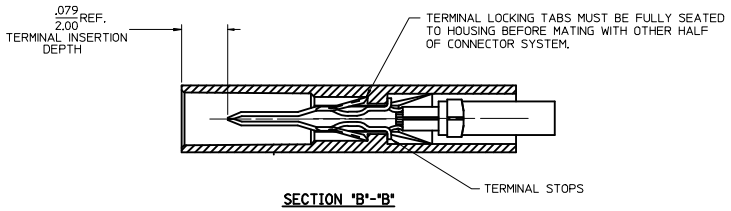


SECTION "E"-"E"
(NO SCALE)

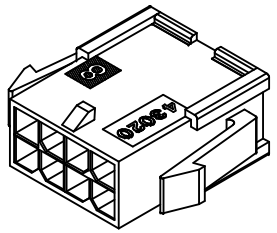




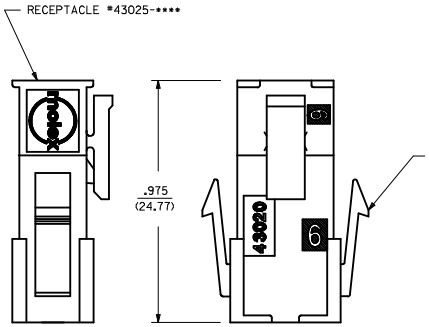
RECOMMENDED PANEL CUT-OUT
(SEE NOTES 7 & 9)



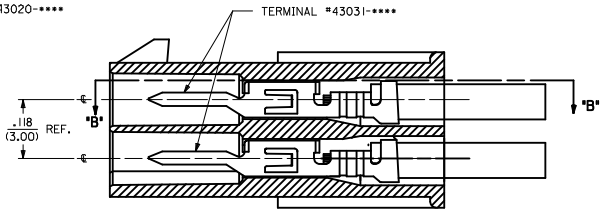
SECTION "B"-"B"



PLUG WITH OPTIONAL PANEL MOUNTS
ISO VIEW
(8 CIRCUIT SHOWN)



MATED MICRO-FIT CONNECTOR



SECTION "D"-"D"
WITH TERMINAL
(SCALE: 8X)

REV	DESCRIPTION	
G4	UPDATE PUNCHED HOLE	2016/09/13
	EC NO: UCP2017-0525	2016/09/13
	DRWN: JQUILES	2016/10/07
	CHKD: SSOUSEK	
	APPR: FSMITH	

QUALITY SYMBOLS: ▽=0 ▽=0 ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .014
1 PLACE	± 0.35	± ---
0 PLACE	± ---	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

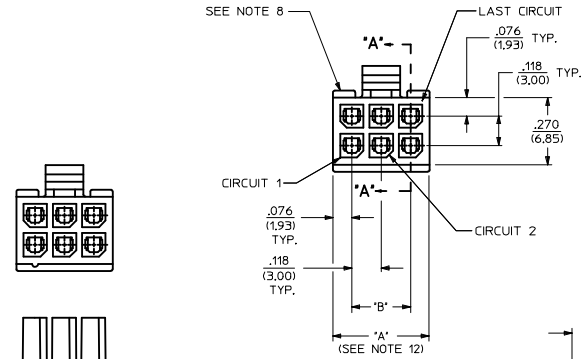
DIMENSION STYLE	IN/MM
SCALE	
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	AFG 1993/01/07
CHECKED BY	BAP 1993/01/07
APPROVED BY	FSMITH 2016/10/07
MATERIAL NO.	SEE CHART
TITLE	MICRO-FIT(3.0) 2 THRU 24 CIRCUIT PLUG WITH OPTIONAL PANEL MOUNTS
DOCUMENT NO.	SDA-43020-****
SHEET NO.	1 OF 1
SIZE	D

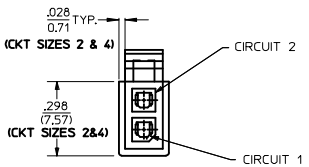
molex

PART CHARACTERISTICS

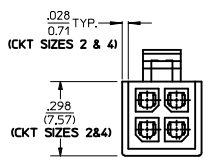
NUMBER OF POSITION	ASSEMBLY ITEM NUMBER	MATERIAL
02	43025-0200	
04	43025-0400	
06	43025-0600	"B"
08	43025-0800	
10	43025-1000	
12	43025-1200	"A"
14	43025-1400	"B"
16	43025-1600	"A"
18	43025-1800	
20	43025-2000	"B"
22	43025-2200	
24	43025-2400	"A"

CKT. NO.	DIM. "A" +.014 -.010 +0.35 -0.25	DIM. "B"
2	.152/(3,86)	N/A
4	.270/(6,85)	.118/(3,00)
6	.388/(9,85)	.236/(6,00)
8	.506/(12,85)	.354/(9,00)
10	.624/(15,85)	.472/(12,00)
12	.742/(18,85)	.591/(15,00)
14	.860/(21,85)	.709/(18,00)
16	.978/(24,85)	.827/(21,00)
18	1.096/(27,85)	.945/(24,00)
20	1.215/(30,85)	1.063/(27,00)
22	1.333/(33,85)	1.181/(30,00)
24	1.451/(36,85)	1.299/(33,00)



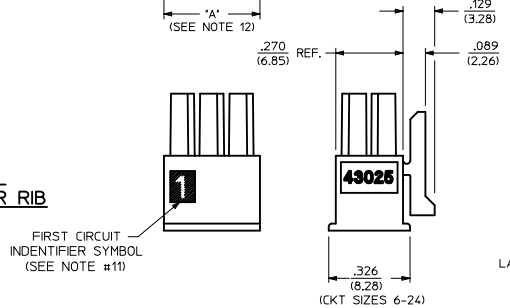


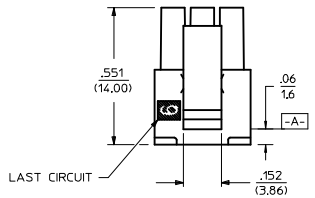
2 CIRCUIT HOUSING

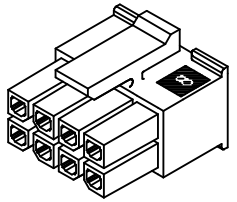


4 CIRCUIT PULL TAB GEOMETRY

HOUSING SHOWN WITH FIRST CIRCUIT IDENTIFIER RIB
(SEE NOTE #11)



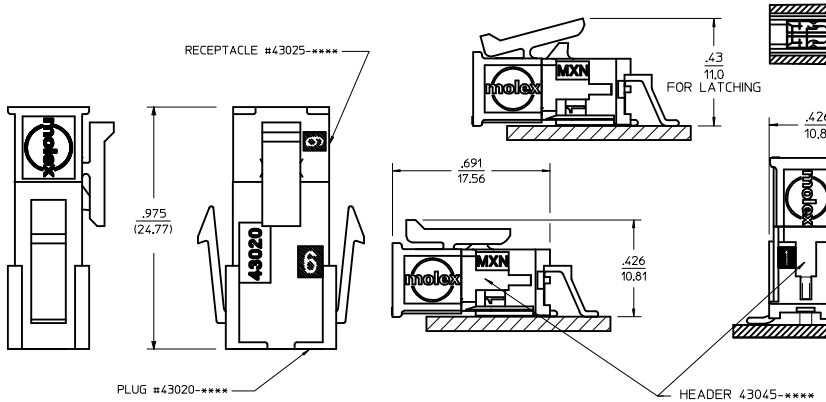




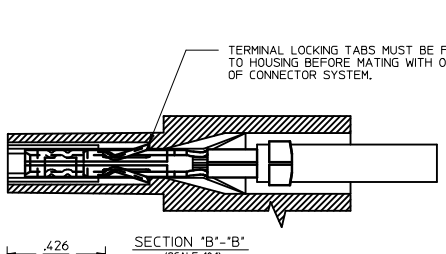
RECEPTACLE
ISO VIEW
(8 CIRCUIT SHOWN)
(SEE NOTE 9 FOR TESTING)

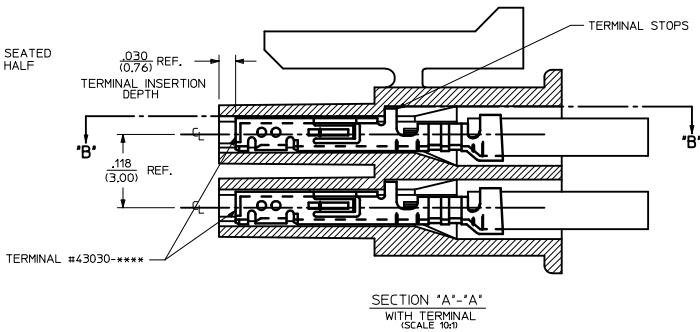
NOTES:

1) HOUSING MATERIAL:
   "A" - UNFILLED POLYESTER, RATED U.L. 94V-0, COLOR IS BLACK.
   "B" - UNFILLED NYLON, RATED U.L. 94V-0, HALOGEN-FREE, COLOR IS BLACK.
2) FINISH: N/A
3) PRODUCT SPECIFICATION: PS-43045
4) PACKAGING SPECIFICATION: PK-43025-001
5) THIS RECEPTACLE MATES WITH 43020, 43045.
6) THIS RECEPTACLE TO BE USED WITH MOLEX FEMALE TERMINAL SERIES 43030 OR 46235. SEE SECTION "A"-"A" FOR TERMINAL ORIENTATION IN HOUSING.
7) FOR OVERMOLDING PARAMETERS SEE ENGINEERING SPECIFICATION #SDES-43025-1000.
8) TOP PULL TABS ARE NOT AVAILABLE ON 2 AND 4 CIRCUIT PARTS.
9) MOLEX RECOMMENDS THE USE OF MICRO-FIT TEST PLUG, SERIES NO. 44242-**** WHENEVER TESTING IS PERFORMED. TEST PLUGS MUST NOT BE USED FOR MAKE OR BREAK UNDER LOAD. MOLEX DOES NOT RECOMMEND USING STANDARD MATING COMPONENTS FOR HARNESS TESTING PURPOSES.
10) SOME HOUSINGS MAY HAVE A SMALL GATE BLEMISH NEAR THE GATE THAT DOES NOT AFFECT FUNCTIONALITY.
11) HOUSINGS HAVE EITHER AN IDENTIFIER RIB OR ENGRAVED "1" SYMBOL TO INDICATE CIRCUIT #1. INDENTIFIER TYPE IS TOOL DEPENDENT AND NOT SELECTABLE.
12) DIMENSION 'A' MEASURED AT DATUM -A-
13) THIS PART CONFORMS TO CLASS 'B' REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.



MATED MICRO-FIT CONNECTOR





SECTION "A"-"A"
WITH TERMINAL
(SCALE 10:1)

ADD MATED VIEW	EC NO: UCP2016-4677	DRWN:BAPPELDORN	2016/06/03
		CHKD:JDFOX	2016/06/03
		APPR:FSMITH	2016/06/09
DESCRIPTION			
REV	04		

QUALITY SYMBOLS: ▽=0 (4 PLACES), ▽=0 (3 PLACES), ▽=0 (2 PLACES), ▽=0 (1 PLACE), ▽=0 (0 PLACE)

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .014
1 PLACE	± 0.35	± ---
0 PLACE	± ---	± ---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	IN/MM
SCALE	
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	A.F.G. 1993/01/14
CHECKED BY	B.A.P. 1993/01/14
APPROVED BY	FSMITH 2016/05/02
MATERIAL NO.	SEE CHART
TITLE	MICRO-FIT (3.0) 2 THRU 24 CIRCUIT RECEPTACLE
DOCUMENT NO.	SDA-43025-****
SHEET NO.	1 OF 1
SIZE	D