MODEL ： INC-1576FHHAAG

Zero Bezel with Tempered Glass
LED Illumination on Semi Halo Effect
12V Addressable LEDs, w/ IC

Revision	Date	History
V0.1	2025.04.02	Initial Release.

Draft _____ Date : _____

Checked: _____ Date : _____

Approved : _____ Date : _____

Contents

1. General Description

1.1 Overview

- **INNODISPLAY Closed-frame LCD Monitor INC-1576FHHAAG is a high performance TFT LCD monitor providing a high quality screen image.**
- **This monitor supports HDMI and DP input. Other input options are available.**
- **Wide input resolution range up to FHD (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.**

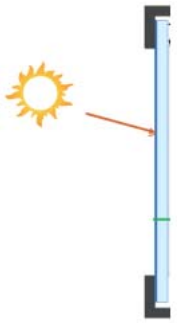
1.2 General Specifications

LCD Panel	**Size**	**15.7” Diagonal**
	Active Display Area	**400.032mm(H) x 400.032mm(V)**
	Type No.	**AUO P157RAN02.0 (15.7” Round Type)**
	Number of Pixels	**960(H) x 960(V) / T-CON Board 1920(H) x 1080(V)**
	Pixel Arrangement	**RGB Vertical Stripe**
	Pixel Pitch	**0.416mm x 0.416mm**
	Color Depth	**16.7M True Colors**
	Surface Treatments	**Anti-Glare Haze 25%, Hard –coating (3H)**
	Viewing Angle (CR>10)	**R/L: 178 degree (89/89) U/D: 178 degree (89/89)**
	Contrast Ratio	**Typ. 1000 : 1**
	Response Time(Typ.)	**16ms**
	Average Brightness	**Typ. 700 cd/ m^2**
	Frame Rate	**Typ. 60Hz**
	Backlight Unit	**LED**
Input Resolution	**Prime**	**1920 x 1080 @ 60 Hz**
	Standard	**640x480@60/72/75Hz 800x600@60/72/75Hz, 1024x768@60/70/75Hz, 1152x864@60Hz 1280x1024@60/75Hz, 1280x720@60Hz 1366x768@60Hz,1600x900@60Hz, 1680x1050@60Hz,1920x1080@60Hz**

Input Signal Port	HDMI 2.0	19pin HDMI Jack x 1 Port
	DP(Display Port) 1.2	20pin DP Jack x 1 Port
	Power Jack	2.5Ø DC Jack
Scanning Frequency	Horizontal	30 ~130Khz
	Vertical	55 ~75Hz
OSD Control		Menu, Select, Up, Down, Power
Plug & Play		VESA DDC 2B Ver1.3
Safety Glass		470.0mm(H) x 470.0mm(V) x 3.0T
LED Frame Illumination (Without Controller)		Edge / Front Type, 4 sided
		LED Type : w/ IC Type (WS2815B)
		Supports External 12V Addressable, w/IC type LED Lighting Controller
		Interface Port : Molex 43020-0600
RoHS		RoHS2 Compliance
Mounting Options		200(H) x 200(V)mm M4 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.**

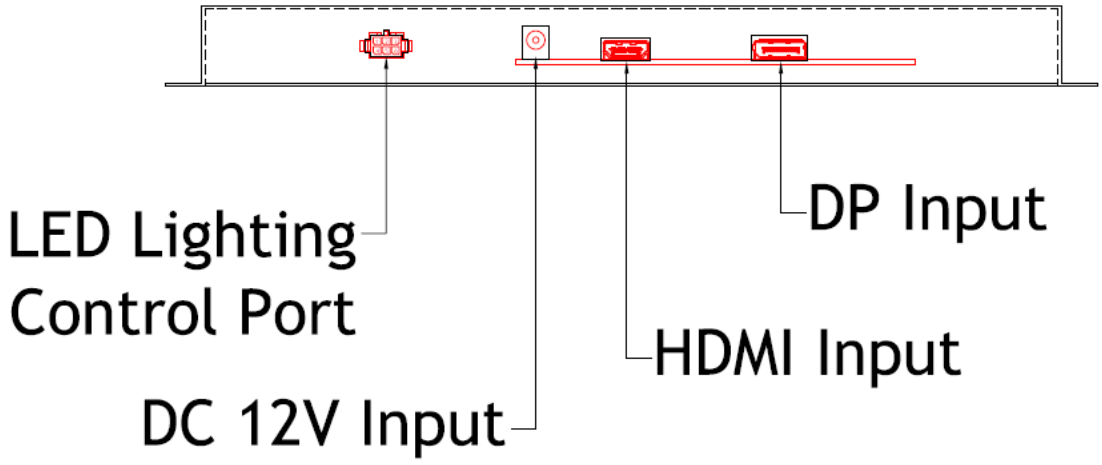
Item	Symbol	Min	Max	Unit
Operating Temperature	TOP	0	+50	°C
Operating Humidity	HOP	10	90	%
Storage Temperature	TST	-20	+60	°C
Storage Humidity	HST	10	90	%

1.4 Power Supply Rating

Optional PSU Input Voltage	AC 100 ~ 240VAC,50/60Hz			
Optional PSU Output Voltage	DC 12V / 5.0A			
Monitor DC Input Voltage	12VDC			
Power Consumption	TBD			
LED String Lighting Specification (12V Addressable, w/IC 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%.**

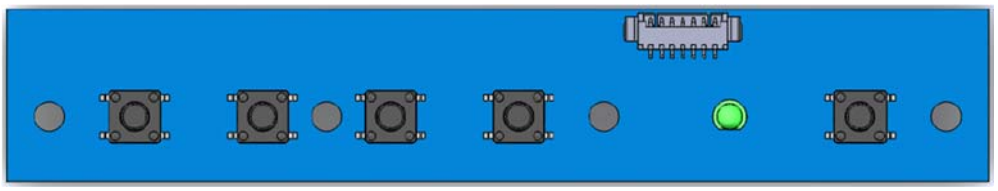
1.5 Input/Output Port

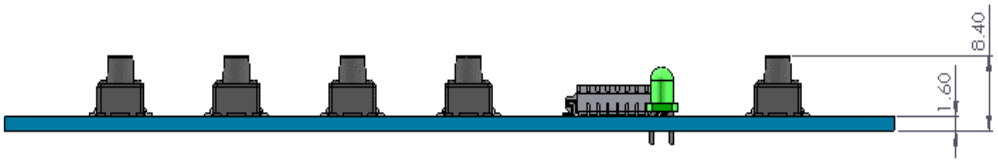


2. User Control & OSD

2.1 Key Control Board

K002





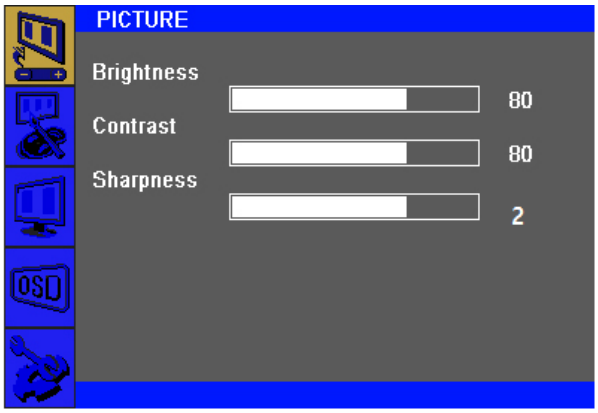
Button	Function	Status	HOT Key
LED	Indicates operation status	Green : Normal State Red : Off Mode Green Blinking : DPMS Mode	
POWER	Power on/off		
MENU	Enable MENU Window Disable MENU Window Exit from Sub function		
SELECT	Select function		No OSD Window, Input Source Change
DOWN	Move to Down or Left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

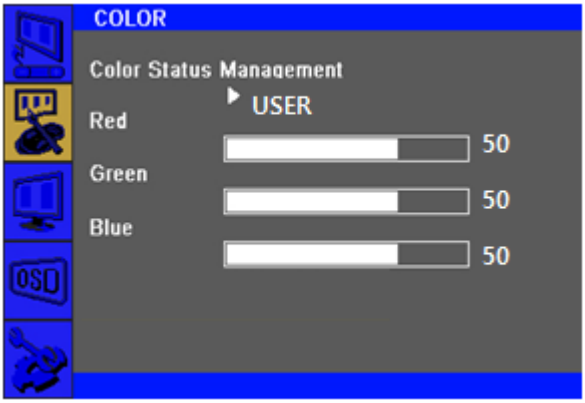
2.2.1 OSD Main Menu

1) PICTURE



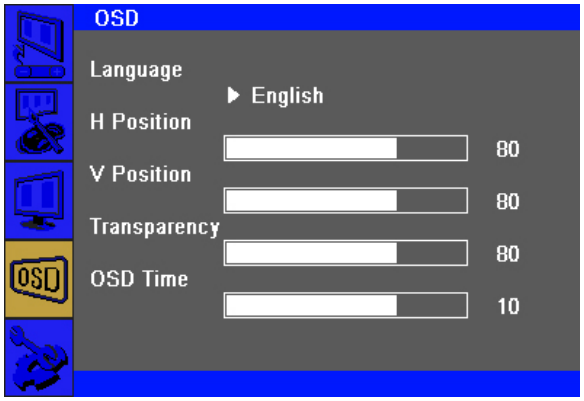
Brightness (0 ~ 100)	**Increases/decreases monitor Brightness. Default: 100**
Contrast (0 ~ 100)	**Increases/decreases monitor Contrast. Default: 100**
Sharpness (0 ~ 4)	**Adjusts Sharpness of the displayed images. Default : 2**

2) COLOR



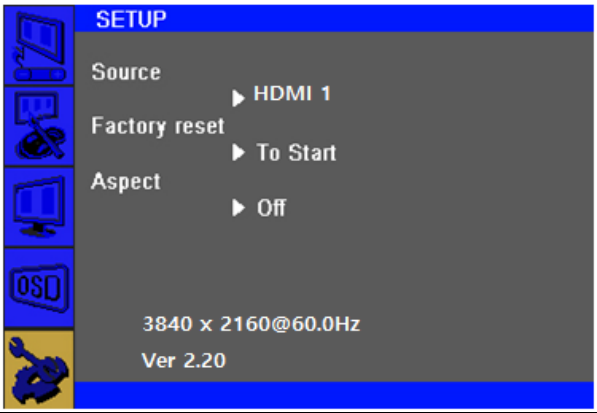
Color Status Management	**Selects the display's color temperature. The available color settings "Normal", "Warm", "Cool", "User" mode. Default : User**
Red (0 ~ 100)	**Increases/decreases Red Color Temperature. Default : 50**
Green (0 ~ 100)	**Increases/decreases Green Color Temperature. Default : 50**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

3) 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**

4) SETUP

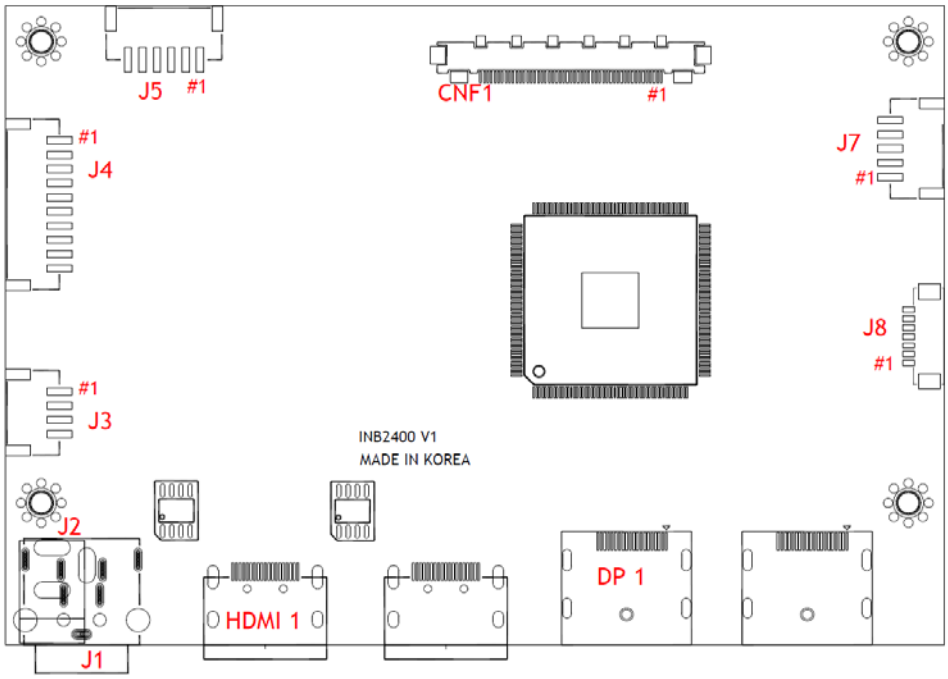


5) Input Source

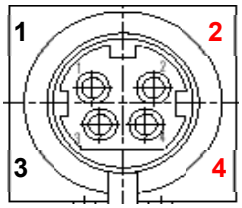
Source	**Selects Input Source HDMI1, DP1,**
Factory reset	**Restores all factory default settings for OSD-adjustable parameters and for Preset Video Mode timings.**
Aspect	**Switches the scaling method between Full Scaling and Maintain Aspect Ratio. Default : Off**

3. Connector Description

3.1 Overview

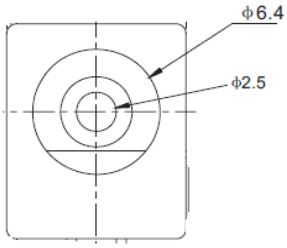


Reference	Item	Description	Type	Manufacture
J1	Jack	24V Input DC Power Jack	KPJ-4S	-
J2	Jack	12V Input DC Power Jack (Optional)	DC-005	
J3	Connector	SMPS Input Power Connector	20022WR-04	YEONHO
J4	Connector	Backlight Inverter Connector	20022WR-10	YEONHO
J5	Connector	5V/12V DC Power Output Connector	20022WR-06	YEONHO
CNF1	Connector	V By One Output (8Lane)	FI-RE51S-HF	JAE
J6	Connector	eDP Output (4Lane / 8Lane / HBR2) Position : PCB Bottom	20453-040T	IPEX
J7	Connector	Auto-Dimming/RS232 Connector	20022WR-05	YEONHO
J8	Connector	OSD Board Connector	12505WR-07	YEONHO
HDMI1	Connector	HDMI Input(TMDS) Connector	HDMI 19P	-
DP1	Connector	DP Input(TMDS) Connector	DP 20P	-



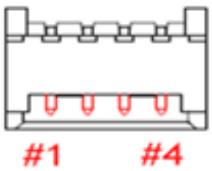
3.2 J1 :24VDC Power Input Jack (Optional)

Pin No.	Symbol	Description
1,3	GND	Ground
2,4	VCC	VDC12V or VDC24V



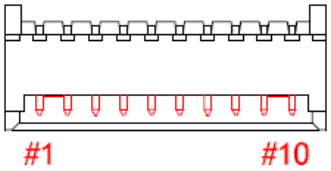
3.3 J2: 12VDC Power Input Jack

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



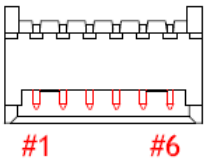
3.4 J3: SMPS Input Power Input Connector: 20022WR-04 (Yeonho or EQ)

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



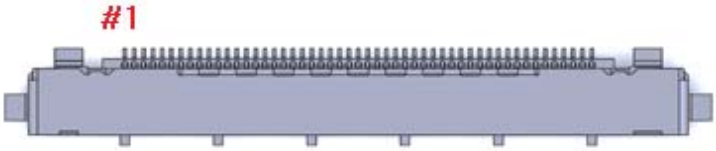
3.5 J4: Backlight Inverter Connector: 20022WR-10 (Yeonho or EQ)

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



3.6 J5: DC Power Output Connector: 20022WR-06 (Yeonho or EQ)

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



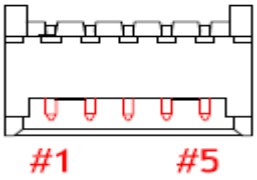
3.7 CNF1: V by One (8Lane) Output Connector: FI-RE51S-HF (JAE or EQ)

Pin No.	Symbol	Description
1	GND	Ground
2	VTX_TX7N	VTX_TX7N
3	VTX_TX7P	VTX_TX7P
4	GND	Ground
5	VTX_TX6N	VTX_TX6N
6	VTX_TX6P	VTX_TX6P
7	GND	Ground
8	VTX_TX5N	VTX_TX5N
9	VTX_TX5P	VTX_TX5P
10	GND	Ground

11	VTX_TX4N	VTX_TX4P
12	VTX_TX4P	VTX_TX4N
13	GND	Ground
14	VTX_TX3N	VTX_TX3P
15	VTX_TX3P	VTX_TX3N
16	GND	Ground
17	VTX_TX2N	VTX_TX2P
18	VTX_TX2P	VTX_TX2N
19	GND	Ground
20	VTX_TX1N	VTX_TX1P
21	VTX_TX1P	VTX_TX1N
22	GND	Ground
23	VTX_TX0N	VTX_TX0P
24	VTX_TX0P	VTX_TX0N
25	GND	Ground
26	VTX_PLL_Lock	VTX_PLL_Lock
27	VTX_HPD	V-by-One Hot Plug Detect
28	GND	Ground
29	V-by-one Bit Select	V-by-One 8bit/10bit Select
30	NC	LED Enable(Optional)
31	GND	No Connection
32	NC	No Connection
33	NC	No Connection
34	NC	No Connection
35	AUX_CH_N2	AUX_CH_N2
36	AUX_CH_P2	AUX_CH_P2
37	GND	Ground
38	AUX_CH_N1	AUX_CH_N1
39	AUX_CH_P1	AUX_CH_P1
40, 41, 42	GND	Ground
43	NC	No Connection
44, 45, 46, 47, 48, 49, 50, 51	PANEL_VDD	10V/12VDC Output for Panel

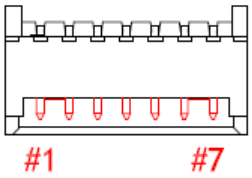
3.8 J6: eDP (4/8Lane) Output Connector: 20453-040T (IPEX or EQ) / Position : PCB Bottom Side

Pin No.	Symbol	Description
1, 2, 3	PANE_VDD	10V/12VDC Output for Panel
5 ,6,7	GND	Ground
4, 8, 9, 10	NC	No Connection
11	eDP1_HPD	TX HPD1
12	2nd_AUXN	2nd TX_AUX_N
13	2nd_AUXP	2nd TX_AUX_P
14	GND	Ground
15	DPTX_L7N	DPTX_L7N
16	DPTX_L7P	DPTX_L7P
17	GND	Ground
18	DPTX_L6N	DPTX_L6N
19	DPTX_L6P	DPTX_L6P
20	GND	Ground
21	DPTX_L5N	DPTX_L5N
22	DPTX_L5P	DPTX_L5P
23	GND	Ground
24	DPTX_L4N	DPTX_L4N
25	DPTX_L4P	DPTX_L4P
26	eDP0_HPD	TX HPD0
27	1st_AUXN	1stTX_AUX_N
28	1st_AUXP	1stTX_AUX_P
29	GND	Ground
30	DPTX_L3N	DPTX_L3N
31	DPTX_L3P	DPTX_L3P
32	GND	Ground
33	DPTX_L2N	DPTX_L2N
34	DPTX_L2P	DPTX_L2P
35	GND	Ground
36	DPTX_L1N	DPTX_L1N
37	DPTX_L1P	DPTX_L1P
38	GND	Ground
39	DPTX_L0N	DPTX_L0N
40	DPTX_L0P	DPTX_L0P



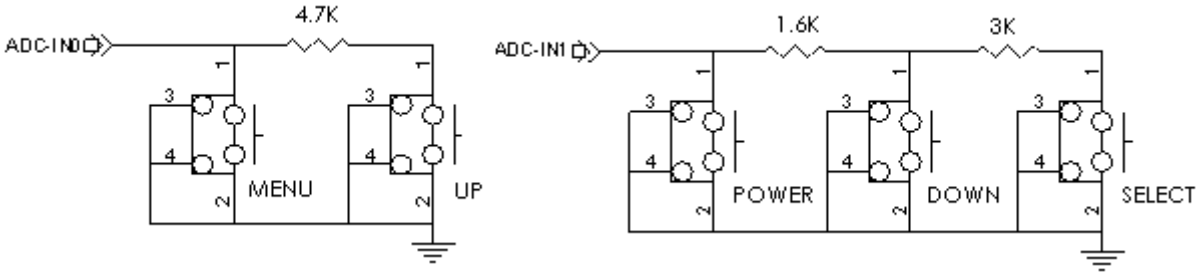
3.9 J7: Auto-Diming / RS232 Connector: 20022WR-05 (Yeonho or EQ)

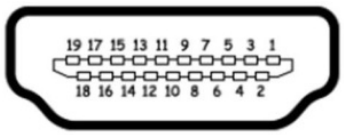
Pin No.	Symbol	Description
1	5VDC	VCC 5V
2	RS232 TX	RS232 TX
3	RS232 RX	RS232 RX
4	Auto- Backlight	Auto-Diming
5	GND	Ground



3.10 J8: OSD Board Connector: 12505WR-07 (Yeonho or EQ)

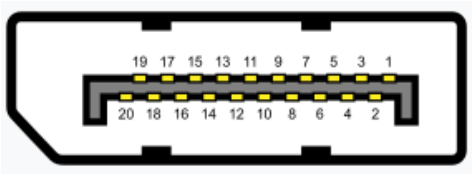
Pin No.	Symbol	Description
1	VCC	+5V Power for IR sensor
2	IRQ	Infrared rays signal line.
3	LED1	Green LED
4	LED2	Red LED
5	GND	Ground
6	ADC-IN0	Menu, Up
7	ADC-IN1	Power, Down, Up





3.11 HDMI 1: 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



3.12 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

4. Standard Display Modes

Spec / Mode	Pixel Freq.	Horizontal Timing				Vertical Timing			
		Sync Polar	Freq.	Total	Active	SP	Freq.	Total	Active
	MHz		KHz	Pixel	Pixel		Hz	Line	Lind
640*480@60Hz	28.175	N	31.469	800	640	N	59.940	525	480
640*480@75Hz	31.500	N	37.500	840	640	N	75.000	500	480
800*600@60Hz	40.000	P	37.879	1056	800	P	60.317	628	600
800*600@75Hz	49.500	P	46.875	1056	800	P	75.000	625	600
1024*768@60Hz	65.000	N	48.363	1344	1024	N	60.005	806	768
1024*768@75Hz	78.750	P	60.023	1312	1024	P	75.030	800	768
1280*720@60Hz	74.500	P	44.772	1664	1280	P	59.855	748	720
1366*768@60Hz	84.75	P	47.72	1776	1366	P	59.799	798	768
1280*1024@60Hz	108.000	P	63.981	1688	1280	P	60.020	1066	1024
1280*1024@75Hz	135.000	P	79.976	1688	1280	P	75.035	1066	1024
1600*900@60Hz	97.750	N	55.540	1760	1600	N	59.978	926	900
1680*1050@60Hz	119.125	P	64.742	1840	1680	N	59.946	1080	1050
1920*1080@60Hz	138.625	P	66.647	2080	1920	N	59.988	1111	1080

5. LED Backlight Driver Board Specification

5.1 Electrical Specification

	Item	Symbol		Condition	Min	Typ	Max	Unit	Note
1	Power Supply Input Voltage	VDDB		-	11.4	12	12.6	V	-
2	Power Supply Input Current	I_{DDB}		VDDB=12V		2.15	2.34	A	1
3	Power Consumption	P_{DDB}		VDDB=12V		25.8	28.1	Watt	1
4	Inrush Current	I_{RUSH}		VDDB=12V		-	4.7	A	2
5	Control signal voltage	V_{Signal}	Hi	2.5 0	-	3.6	3.3	5	-
			Low		-	0.8	0.8		3
6	Control signal current	I_{Signal}		VDDB=12V	-	-	1.5	mA	-
7	External PWM Duty ratio (input duty ratio)	D_EPWM		VDDB=12V	0	-	100	%	4
8	External PWM Frequency	F_EPWM		VDDB=12V	120	-	960	Hz	4
9	Input Impedance	Rin		VDDB=12V	300			Kohm	-
10	LED MTTF	LTLED		-	-	50,000	-	Hrs	5, 6

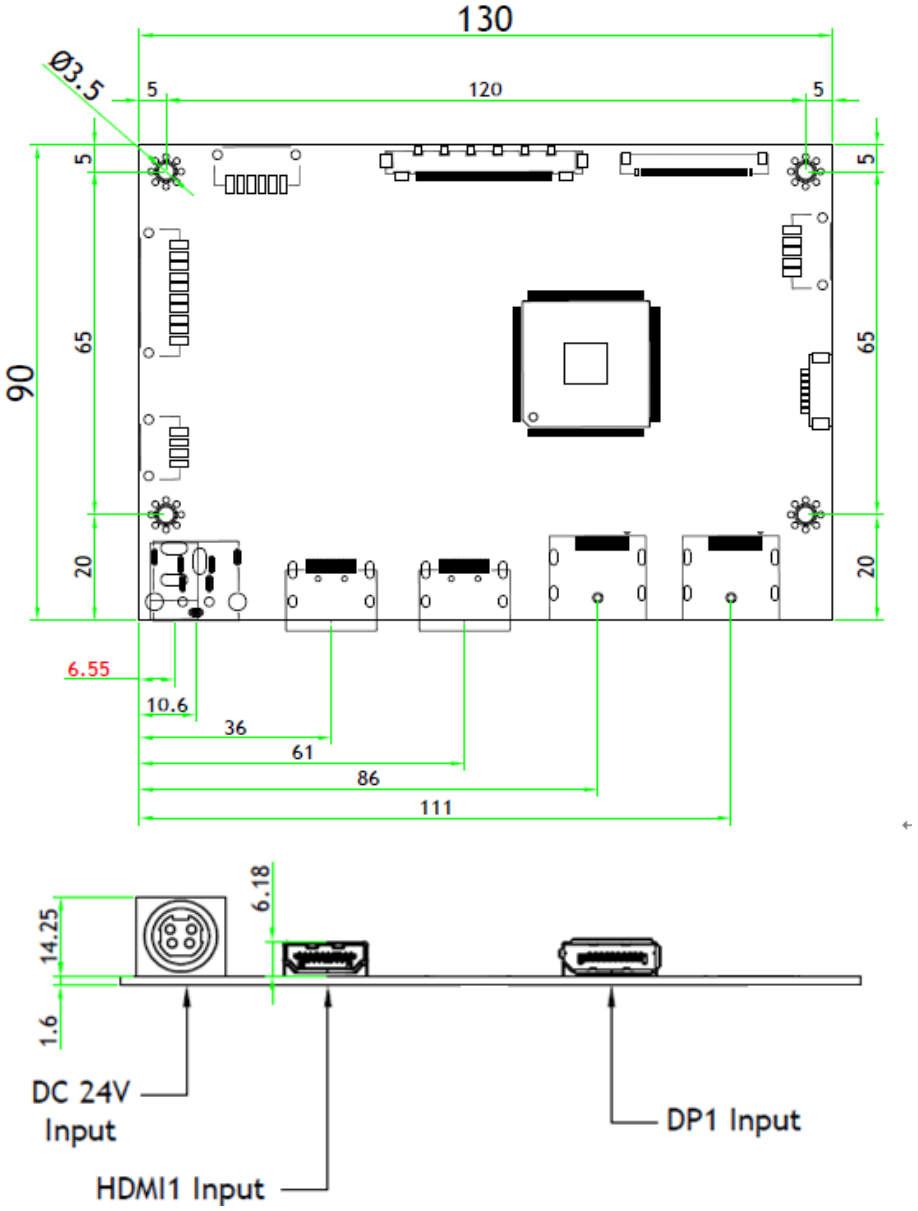
5.2 Interface

5.2.1 CN1 Connector: CI0114M1HRL-NH(CviLux) or EQ

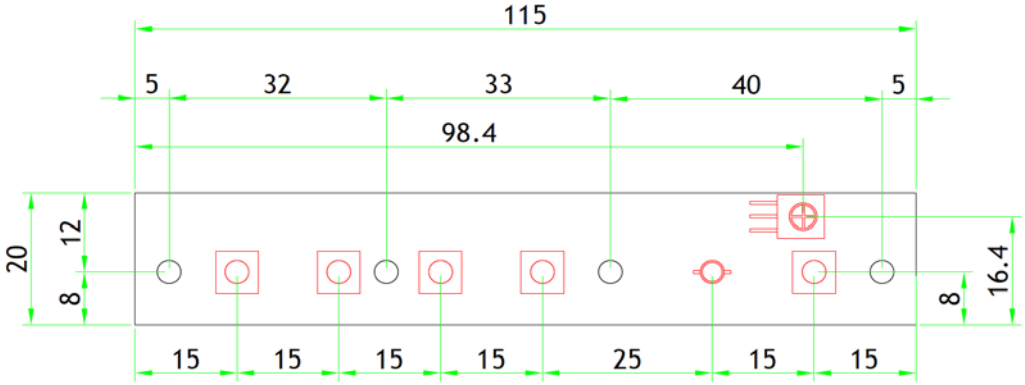
Pin	Symbol	Description	Note
1	VDDB	Power Supply Input Voltage 12V	
2	VDDB	Power Supply Input Voltage 12V	
3	VDDB	Power Supply Input Voltage 12V	
4	VDDB	Power Supply Input Voltage 12V	
5	VDDB	Power Supply Input Voltage 12V	
6	GND	Ground	
7	GND	Ground	
8	GND	Ground	
9	GND	Ground	
10	GND	Ground	
11	NC	NC	1
12	VBLON	BLU On-Off control:	2,3
13	NC	NC	4
14	PDIM	External PWM	2, 5

6. Board Dimensions

6.1 AD Board (INB2400A V1) Dimension (130mm x 90mm x 14.3mm)



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



7. LED Lighting Control Interface Specification

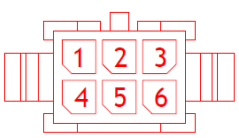
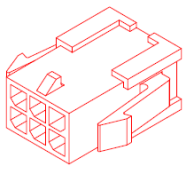
7.1 Connector Spec

- Connector: Molex 43020-0600

- Matching Housing: Molex 43025-0600

7.2 External LED Connector Pin Map

7.2.1 With IC (Dual- Line) LED Bar Board

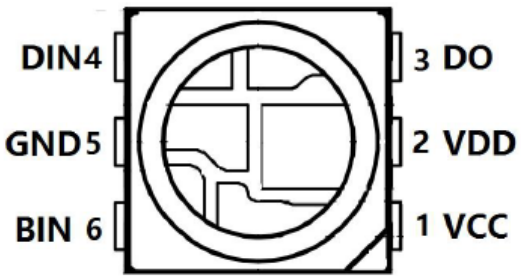
Pin No	Description	Connector (Molex 43020-0600)
P1	12V	 
P2	CTL (Contol Line)	
P3	GND	
P4	NC	
P5	NC	
P6	NC	

Pin No	Symbol	Remark
1	12V	DC 12V (Master)
2	CTL	With IC LED Control Line
3	GND	GND
4	NC	Non Connection
5	NC	Non Connection
6	NC	Non Connection

7.3 LED (WS2815B) Spec

7.3.1 LED (WS2815B) Pin Configuration

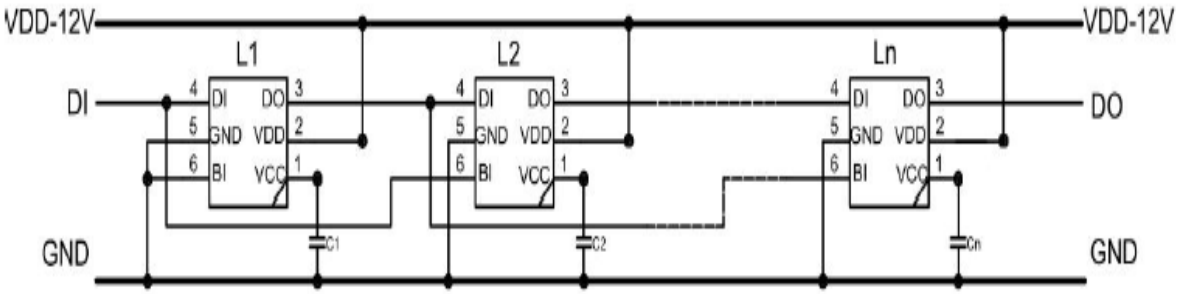
PIN Configuration



PIN Function

NO.	Symbol	PIN	Function description
1	VCC	VCC	IC POWER SUPPLY, Suspended or connected with a filter capacitor to GROUND
2	VDD	VDD	LED POWER SUPPLY, connect to "+12V"
3	DO	DO	Control data signal output
4	DIN	DIN	Control data signal input
5	GND	GND	Data & Power Grounding
6	BIN	BIN	Backup Control data signal input

7.3., LED (WS2815B) Circuit



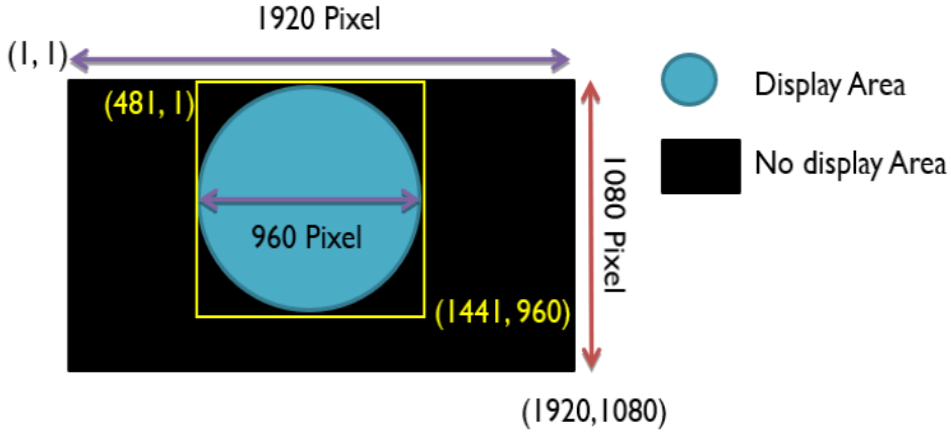
8. Contents Format

FHD 1920*1080, eDP interface

Input Resolution: 1920*1080
Active Area: Diameter 960 Pixel
Inactive Area: Black area

Receive the Resolution: 1920*1080
Active Area: Diameter 960 Pixel
Inactive Area: Black area

Panel Display: Diameter 960 Pixel



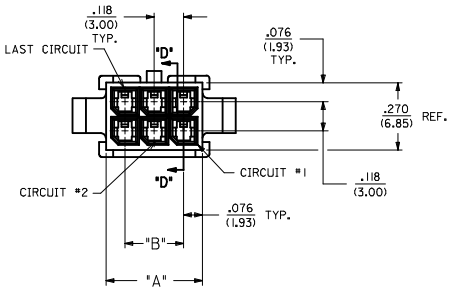
9. Packing Information

Item	Q'ty	Dimension (W x H x D)	Weight(Kg)	Remark
Closed Frame	1Pcs	511.0mm x 511.0mm x 61.9mm	TBD	
Box Packing			TBD	
Pallet Size			TBD	
Pallet Packing			TBD	

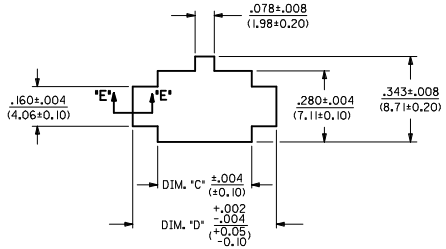
10. Mechanical structure

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	

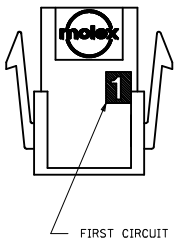
CKT. NO.	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"
2	.152/(3.86)	N/A	.166/(4.21)	.311/(7.90)
4	.270/(6.85)	.118/(3.00)	.284/(7.21)	.429/(10.90)
6	.388/(9.85)	.236/(6.00)	.402/(10.21)	.547/(13.89)
8	.506/(12.85)	.354/(9.00)	.520/(13.21)	.665/(16.89)
10	.624/(15.85)	.472/(12.00)	.638/(16.21)	.783/(19.89)
12	.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)

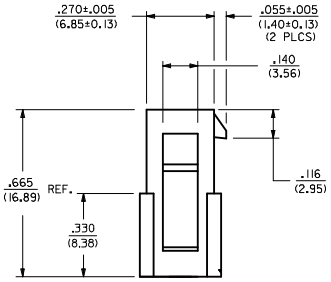


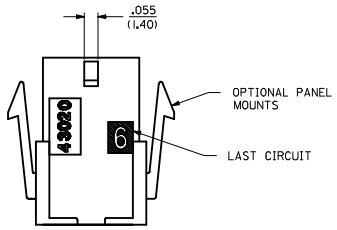
NOTES:
1) HOUSING MATERIAL:
   "A" - UNFILLED POLYESTER, RATED U.L. 94V-0, COLOR IS BLACK.
   "B" - UNFILLED NYLON, RATED U.L. 94V-0, HALOGEN-FREE, COLOR IS BLACK.
2) FINISH: N/A
3) PRODUCT SPECIFICATION: PS-43045
4) PACKAGING SPECIFICATION: PK-43020-001
5) THIS HOUSING MATES WITH MICRO-FIT RECEPTACLE #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.



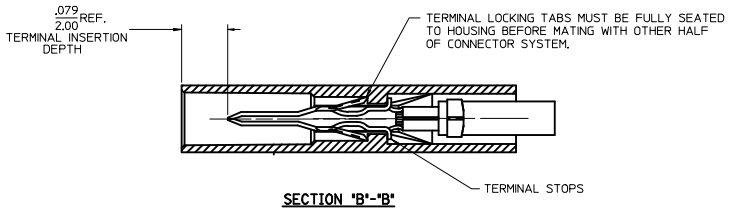
SECTION "E"-"E"
(NO SCALE)



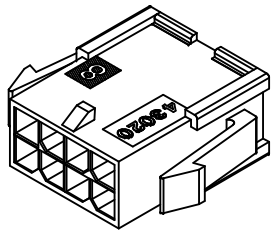




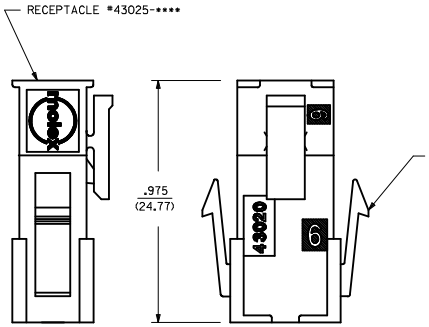
RECOMMENDED PANEL CUT-OUT
(SEE NOTES 7 & 9)



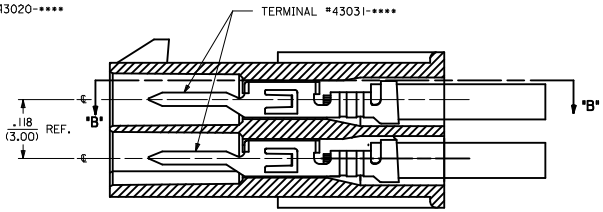
SECTION "B"-"B"



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

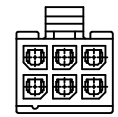
PART CHARACTERISTICS

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"

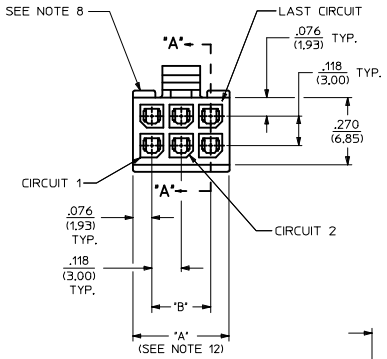
CKT. NO.	DIM. "A" +.014 -.010 +0.35 -0.25	DIM. "B"
2	.152/(3,86)	N/A
4	.270/(6,85)	.118/(3,00)
6	.388/(9,85)	.236/(6,00)
8	.506/(12,85)	.354/(9,00)
10	.624/(15,85)	.472/(12,00)
12	.742/(18,85)	.591/(15,00)
14	.860/(21,85)	.709/(18,00)
16	.978/(24,85)	.827/(21,00)
18	1.096/(27,85)	.945/(24,00)
20	1.215/(30,85)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

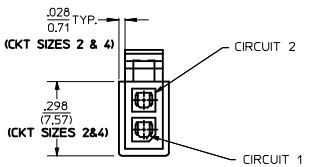
NOTES:

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.

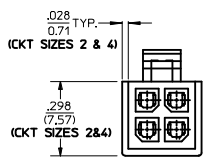


HOUSING SHOWN WITH FIRST CIRCUIT IDENTIFIER RIB
(SEE NOTE #11)

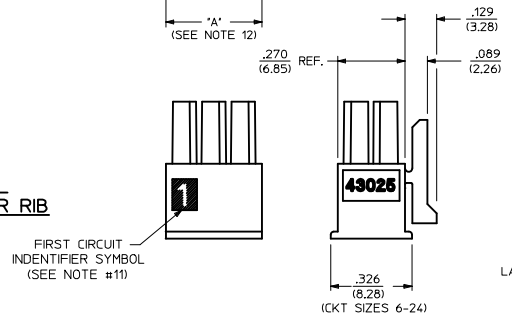


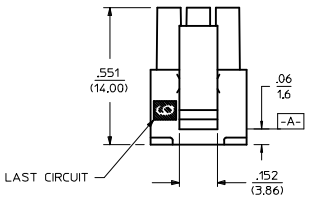


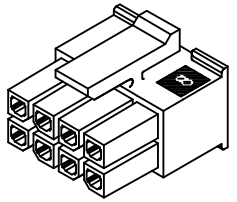
2 CIRCUIT HOUSING



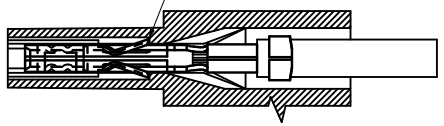
4 CIRCUIT PULL TAB GEOMETRY



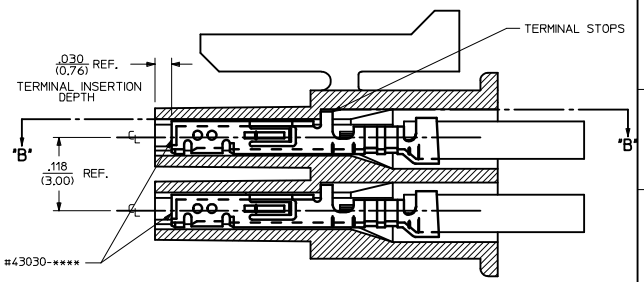




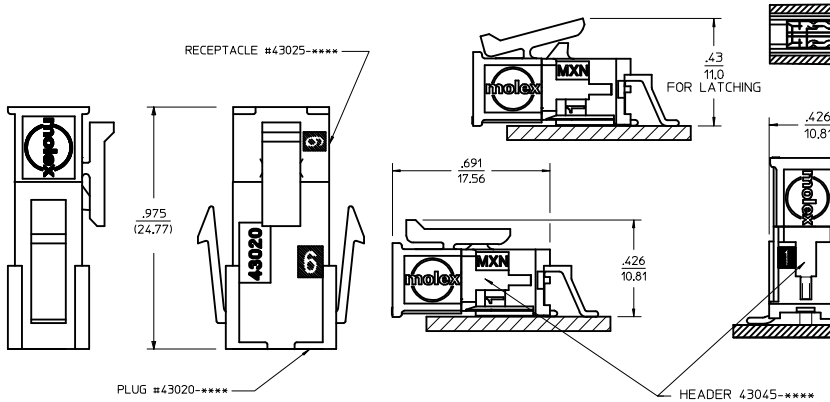
RECEPTACLE
ISO VIEW
(8 CIRCUIT SHOWN)
(SEE NOTE 9 FOR TESTING)



SECTION "B"-"B"
(SCALE 10:1)



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



MATED MICRO-FIT CONNECTOR

REV	DESCRIPTION	DATE	DRWN	CHKD	APPR
04	ADD MATED VIEW EC NO: UCP2016-4677	2016/06/03 2016/06/03 2016/06/09	BAPPELDORN JDFOX 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	A.F.G. 1993/01/14
CHECKED BY	B.A.P. 1993/01/14
APPROVED BY	FSMITH 2016/05/02
MATERIAL NO.	SEE CHART
SIZE	D

TITLE: MICRO-FIT (3.0) 2 THRU 24 CIRCUIT RECEPTACLE

molex

DOCUMENT NO.: SDA-43025-****
SHEET NO.: 1 OF 1