PVI PD050VL1 TFT-LCD DRIVERING BOARD

1. FEATURE:

FOR TFT-LCD PANEL: PVI 5” DIGITAL PANEL PD050VL1
VIDEO INPUT D-SUB VGA SIGNAL, DUAL COMPOSITE VIDEO CHANNELS.
OPERATING TEMPERATURE: 0°C~60°C
STORAGE TEMPERATURE: -20°C~70°C

2. ELECTRICAL CHARACTERISTICS

Symbol	I/O	Conditions	Min	Typ	Max	Unit
V in	I	DC(+)	10	12	14	V
I in		DC(+12V)	320	350	380	mA
P in			3.84	4.20	4.56	W

3. DRIVER BOARD INTRODUCTION

PORT DEFINITION

CON1 EXTERNAL SIGNAL INPUT TERMINAL (14PIN)
CON2 KEYBOARD OPERATION CONNECTOR (10PIN)
CON3 NC
CON4 CONNECTOR OF DRIVER BOARD WITH LCD MODULE (LVDS/34 PIN)
CON6 CONNECTOR OF DRIVER BOARD WITH LCD B/L DRIVER BOARD (4PIN)

CON1 OUTSIDE SIGNAL INPUT TERMINAL (14PIN)
Type: MOLEX 53261-1471 or Compatibility

Pin No	Symbol	I/O	Description	Remark
1	Vin	I	Vin	
2	GND	I	Ground	
3	GND	I	Ground	
4	CVBS1	I	Composite Video	
5	NC	I	No connect	
6	CVBS2	I	Composite Video	
7	GND	I	Ground	
8	R	I	VGA Red Signal Input	
9	G	I	VGA Green Signal Input	
10	B	I	VGA Blue Signal Input	
11	GND	I	Ground	
12	H-SYNC	I	HSYNC Input For VGA	
13	V-SYNC	I	VSYNC Input For VGA	
14	GND	I	Ground	

CON2 KEYBOARD OPERATION CONNECTOR（10PIN）

Type: MOLEX 53261-1071 or Compatibility

Pin	Definition	Pin	Definition	Pin	Definition
1	Auto	5	POWER	9	LED-GREEN
2	RIGHT	6	+3.3V	10	LED-RED
3	LEFT	7	GND		
4	MENU	8	REMOTE		

CON4 LVDS CONNECTOR（34PIN）

Type: MOLEX-87758-34 OR COMPATIBILITY

Pin NO	DEF.	Pin NO	DEF.	Pin NO	DEF.	Pin NO	DEF.
1	IN0-	2	IN0+	3	IN1-	4	IN1+
5	IN2-	6	IN2+	7	GND	8	CLK-
9	CLK+	10	NC	11	NC	12	NC
13	NC	14	GND	15	NC	16	NC
17	GND	18	NC	19	NC	20	NC
21	NC	22	NC	23	NC	24	GND
25	GND	26	GND	27	GND	28	VCC(+3.3V)
29	VCC(+3.3V)	30	VCC(+3.3V)	31	VCC(+3.3V)	32	VCC(+3.3V)
33	NC	34	NC				

CON6 INVERTER CONNECTOR（4PIN）

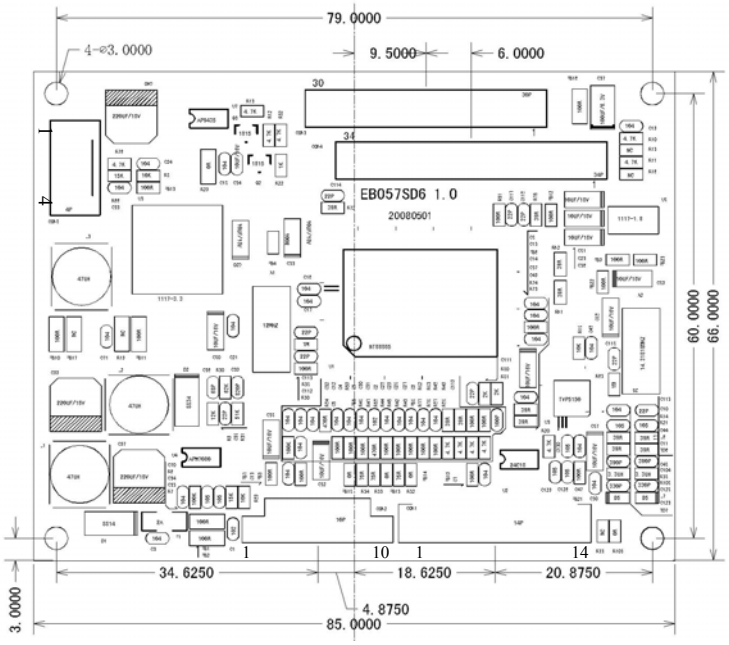
Type: JST B4B-XH-A OR COMPATIBILITY

Pin	Definition	Pin	Definition	Pin	Definition	Pin	Definition
1	+12V	2	GND	3	ON/OFF (Note1)	4	DIM (Note2)

Note1: BACKLIGHT CONTROL SWITCH (ON: 1.5~5V, OFF: 0~1.5V)

Note2: BRIGHTNESS CONTROL (0~5V)

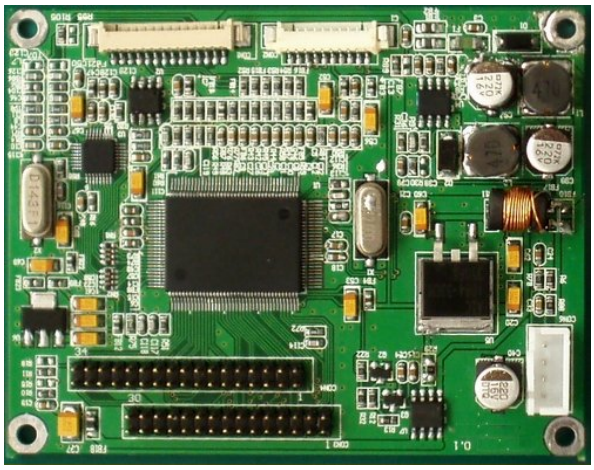
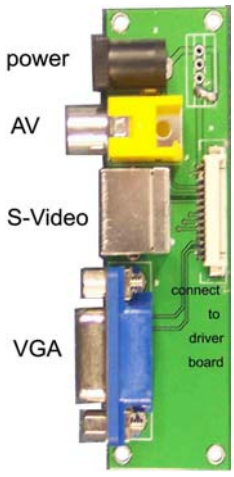
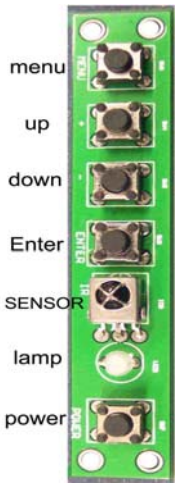
4. DRIVER BOARD OUTLINE DRAWING:



Description:

Outline: 85.0×66.0×12.1mm
Top Layer High (Max): 7.0 mm
Bottom Layer High (Max): 3.9 mm
Board Thickness: 1.2mm
Screws: D3.0mm×4

5. ITEM LIST:

<table>
<tr><td rowspan="2">A</td><td colspan="2">DRIVER BOARD</td><td>CABLE FOR DEMO KIT</td><td colspan="2">PANEL CABLE FOR PD050VL1</td></tr>
<tr><td colspan="2">  </td><td> </td><td colspan="2"> </td></tr>
<tr><td rowspan="2">B
(optional)</td><td>DEMO KIT
（no S-Video）</td><td>KEYBOARD</td><td>CABLE FOR KEYBOARD</td><td>B/L DRIVER BOARD</td><td>B/L CABLE</td></tr>
<tr><td> 
</td><td> 
</td><td> </td><td> </td><td> </td></tr>
<tr><td>C</td><td colspan="5">Firmware No.</td></tr>
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6. Revision History

Revision History		
REV.	Issued Data	Revision Contents
0.1	JUN 2, 2008	New
0.2	JUN 10, 2008	Add Firmware No. in ITEM LIST