

Manufacturer Certificated



CERT. No.: 282Q19070712006

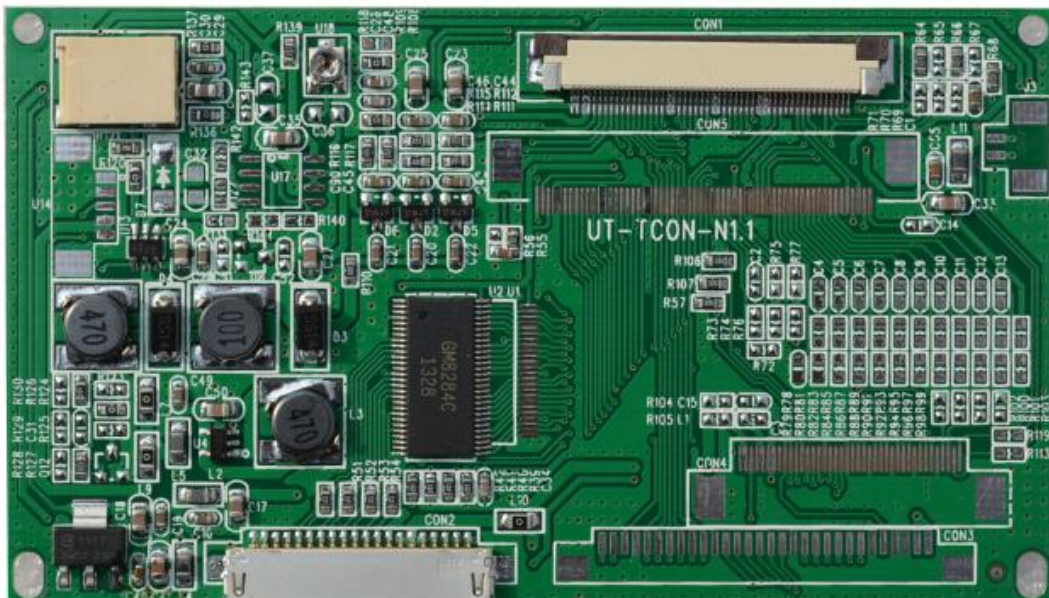
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Product Specification

Model: **TBJ070LV-02**

LVDS Display Board

This module uses ROHS material



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1. Record of Revision

Version	Revise Date	Content	Remark
V1.0	2015/07/30	-	-

2. General Specifications

Feature		Spec
Characteristics	Size	-
	LCM Resolution supported	800(horizontal)*480(Vertical)
	Interface	LVDS
	Connect type	Connector
	PCBA size	93.0*53.0mm
	LCM connector	50 PIN/0.5S and 60 PIN/0.5S
	LVDS connector	20 PIN/1.0S

3. Electrical Characteristics

Item	Symbol	MIN	Typ	MAX	Unit
Supply Voltage	VDD	-	5.0	-	V
Direct Current	Id	-	360	-	mA
Operating Temperature	TOPR	-20	-	70	°C
Storage Temperature	TSTG	-30	-	80	°C

4.PIN-MAP

4.1 PIN-MAP-LVDS(CON2)

Pin No.	Symbol	Function
1	ON/OFF	Backlight on/off
2	NC	NC
3	NC	NC
4	NC	NC
5	VCC	Power supply (+5.0V)
6	VCC	Power supply (+5.0V)
7	VCC	Power supply (+5.0V)
8	GND	GND
9	RXCLK+	DCLK+
10	RXCLK-	DCLK—
11	RXIN2+	Channel 2+
12	RXIN2-	Channel 2-
13	RXIN1+	Channel 1+
14	RXIN1-	Channel 1-
15	RXIN0+	Channel 0+
16	RXIN0-	Channel 0—
17	NC	NC
18	NC	NC
19	GND	GND
20	GND	GND

4.2 PIN-MAP-LCM(CON1)

Pin No.	Symbol	Function
1	VLED+	Power for LED backlight anode
2	VLED+	Power for LED backlight anode
3	VLED-	Power for LED backlight cathode
4	VLED-	Power for LED backlight cathode
5	GND	Power ground
6	VCOM	VCOM input
7	VCC	Digital power supply(+3.3V)
8	MODE	DE or HV mode control
9	DE	Data Enable
10	VS	Vsync signal input
11	HS	Hsync signal input

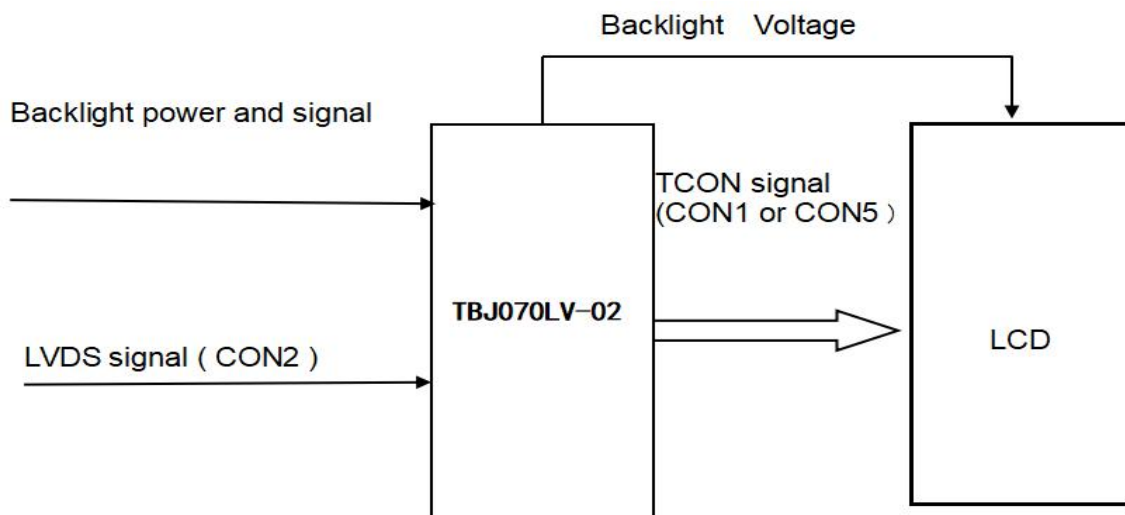
12	B7	Blue data input (MSB)
13	B6	Blue data input
14	B5	Blue data input
15	B4	Blue data input
16	B3	Blue data input
17	B2	Blue data input
18	B1	Blue data input
19	B0	Blue data input(LSB)
20	G7	Green data input(MSB)
21	G6	Green data input
22	G5	Green data input
23	G4	Green data input
24	G3	Green data input
25	G2	Green data input
26	G1	Green data input
27	G0	Green data input(LSB)
28	R7	Red data input(MSB)
29	R6	Red data input
30	R5	Red data input
31	R4	Red data input
32	R3	Red data input
33	R2	Red data input
34	R1	Red data input
35	R0	Red data input(LSB)
36	GND	Power ground
37	DCLK	Sample clock
38	GND	Power ground
39	L/R	Select left to right scanning direction
40	U/D	Select up or down scanning direction
41	VGH	Positive power for scan driver
42	VGL	Negative power for scan driver
43	AVDD	Power supply for analog circuit
44	RESET	Reset
45	POL	Polarity select for the line inversion control signal
46	VCOM	VCOM input
47	NC	No Connector
48	NC	No Connector
49	NC	No Connector
50	NC	No Connector

4.2 PIN-MAP-LCM(CON5)

Pin No.	Symbol	Function
1	AGND	Analog Ground
2	AVDD	Analog Power
3	VCC	Digital Power
4	R0	Data Input(LSB)
5	R1	Data Input
6	R2	Data Input
7	R3	Data Input
8	R4	Data Input
9	R5	Data Input
10	R6	Data Input
11	R7	Data Input(MSB)
12	G0	Data Input(LSB)
13	G1	Data Input
14	G2	Data Input
15	G3	Data Input
16	G4	Data Input
17	G5	Data Input
18	G6	Data Input
19	G7	Data Input(MSB)
20	B0	Data Input(LSB)
21	B1	Data Input
22	B2	Data Input
23	B3	Data Input
24	B4	Data Input
25	B5	Data Input
26	B6	Data Input
27	B7	Data Input(MSB)
28	DCLK	Clock input
29	DE	Data Enable signal
30	HSYNC	Horizontal sync input(Negative polarity)
31	VSNC	Vertical sync input(Negative polarity)
32	SCL	Serial communication clock input
33	SDA	Serial communication data input
34	CSB	Serial communication chip input
35	NC	For test do not connect(Please leave it open)
36	VDDIO	Digital interface supply voltage

37	NC	For test do not connect(Please leave it open)
38	GND	Ground for digital circuit
39	AGND	Ground for analog circuit
40	AVDD	Analog Power
41	VCOMin	For external VCOM DC input(Optional)
42	DITH	Dithering setting DITH= “L” 6bit resolution (LSB last 2 bits of input data truncated) DITH= “H” 8bit resolution(Default setting)
43	NC	For test do not connect(Please leave it open)
44	VCOM	Connect a capacitor
45	V10	Gamma correction voltage reference
46	V9	Gamma correction voltage reference
47	V8	Gamma correction voltage reference
48	V7	Gamma correction voltage reference
49	V6	Gamma correction voltage reference
50	V5	Gamma correction voltage reference
51	V4	Gamma correction voltage reference
52	V3	Gamma correction voltage reference
53	V2	Gamma correction voltage reference
54	V1	Gamma correction voltage reference
55	NC	Not connect
56	VGH	Positive Power for TFT
57	VCC	Digital Power
58	VGL	Negative Power for TFT
59	GND	Digital Ground
60	NC	Not connect

5. Block Diagram



6. Mechanical Drawing

