PC-TFT-2535PA-LED

Interface Board

Features

- Used for TFT-LCD display: 2.5”/3.5” AND-TFT-25PA
- Compact, light, thin and small
- Short circuit protection
- Low EMI interference
- External pin to allow user to adjust color, brightness and contrast.

The PC-TFT-2535PA-LED is designed to work with the AND-TFT-25PA and the AND-TFT-35PA color TFT display which is suitable for security, video game, door phone, video phone, portable TV and instrument display applications..

Mechanical Characteristics

Item	Specification	Unit
Outline Dimension	62.5 (W) x 52 (H) x 7.5 (D)	mm
Weight	20	g

Absolute Maximum Rating

Item	Symbol	Conditions	Min.	Max.	Unit
Operating Temperature	Top	–	0	60	°C
Storage Temperature	Tstg	–	-30	80	°C

DC to DC Converter

Voltage (V)	Current (mA)	Total Regulation			Ripple & Noise (mV)
		Min.	Typ.	Max.	
+5V	50-100	4.8	5.0	5.1	50
+7.5V	6~10	7	9.1	9.5	200
+15V	5~5	12	15	16	200
-12V	2-5	-9	-12	-15	200

Input

Characteristics:

Typical Input Voltage: 8V DC

Input Voltage Range: 6VDC to 15 VDC

I**nput Current:** 150mA, Typical at 12VDC with panel load.

Inrush Current Max: 250mA at 6VDC, 130mA at 15VDC Cold start at 25C, 5.0VDC with panel load.

Sync. Pulse: 60KHz Typical

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Terminal Pin Assignment

Pin No.	Symbol	I/O	Description	Remarks
1	+5V	O	5.0V output	–
2	COL	I	color adj.	–
3	BRT	I	brightness adj.	–
4	CNT	I	contrast adj.	–
5	Video	I	composite video signal	The signal resistance is 75Ω, 1V p-p.
6	U/P	I	up/down scan control	+5V or GND
7	R/L	I	left/right scan control	+5V or GND
8	GND	I	ground	–
9	GND	I	ground	–
10	+12V	I	+12V DC power input	–
11	HSY	O	HSY output	–
12	VSY	O	VSY output	–

Connector:

Pin No: FC12D (Bottom Contact)

Pitch: FC 1.0mm

Output Characteristics:

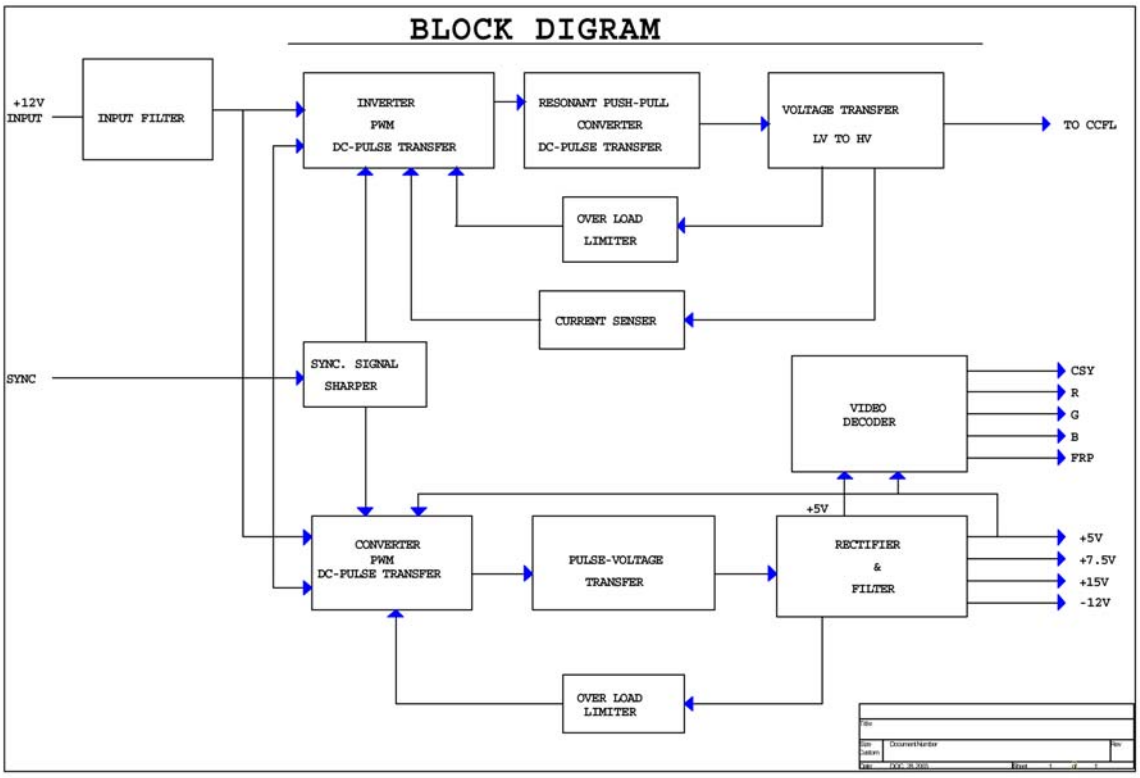
DC to DC Backlight Inverter:

Starting Voltage: 15.8VDC, typical at 6.0 VDC

Working Voltage: 16.0 VDC, typical at 15 VDC

Working Current: DC 10mA ± 20% typical for general application.

Block Diagram



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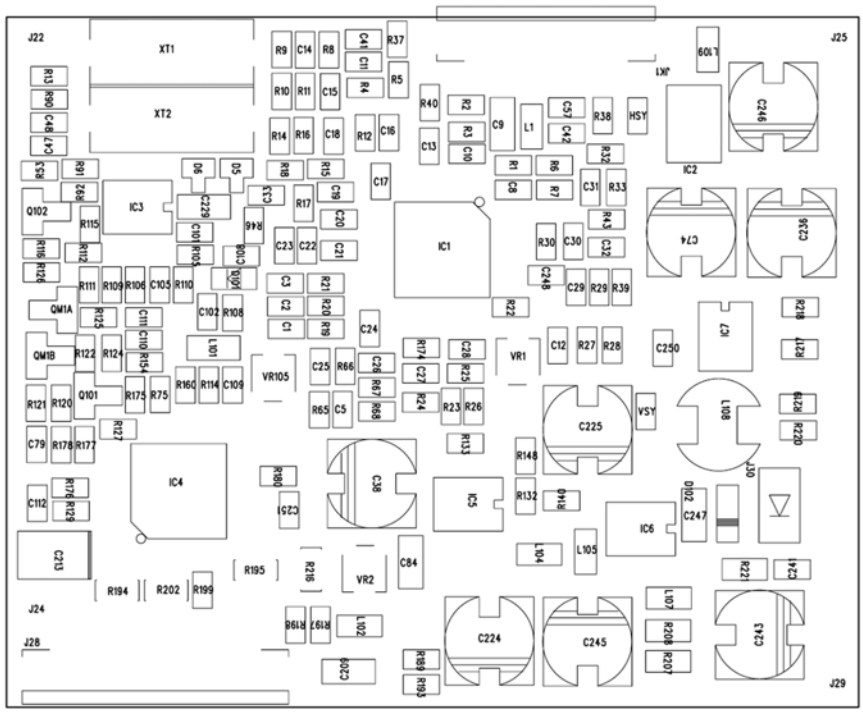
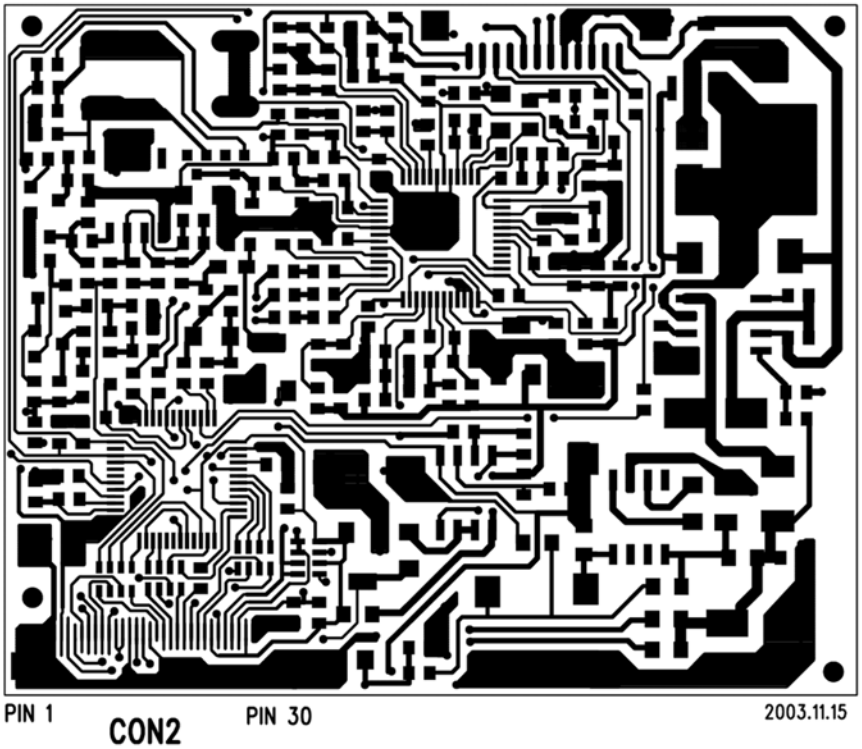
Dimensional Outline





Dimensional Outline