LCD / LCM SPECIFICATION



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SPECIFICATION

MODULE NO.: WO320240-85HH#FC

General Specification

Item	Dimension	Unit
Number of dots	320 x 240 dots	—
Module dimension	94.20 x 80.60 x 6.05(MAX)	mm
View area	80.2 x 61.00	mm
Active area	76.79 x 57.59	mm
Dot size	0.23 x0.23	mm
Dot pitch	0.24x 0.24	mm
Duty	1/240 duty;1/12 bias	
Backlight Type	LED	
IC	IST3088	
Interface	6800/8080/4-Line	

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Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	—	+70	℃
Storage Temperature	T_{ST}	-30	—	+80	℃
Supply voltage range	V_{CC}	-0.3	—	+8.0	V
	V_0/VOUT	-0.3	—	+40	V
	V1/V2/V3/V4	-0.3	—	V_0	V

Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	V_{CC}-V_{SS}	—	2.8	3.0	3.3	V
Supply Voltage For LCM	V_{OP}	Ta=-20℃	—	—	—	V
		Ta=25℃	21.5	22.0	22.5	V
		Ta=+70℃	—	—	—	V
Input High Volt.	V_{IH}	—	0.8V_{CC}	—	V_{CC}	V
Input Low Volt.	V_{IL}	—	GND	—	0.2 V_{CC}	V
Output High Volt.	V_{OH}	—	0.8 V_{CC}	—	V_{CC}	V
Output Low Volt.	V_{OL}	—	GND	—	0.2 V_{CC}	V
Supply Current	I_{DD}	V_{CC}=3.0V	—	15	25	mA

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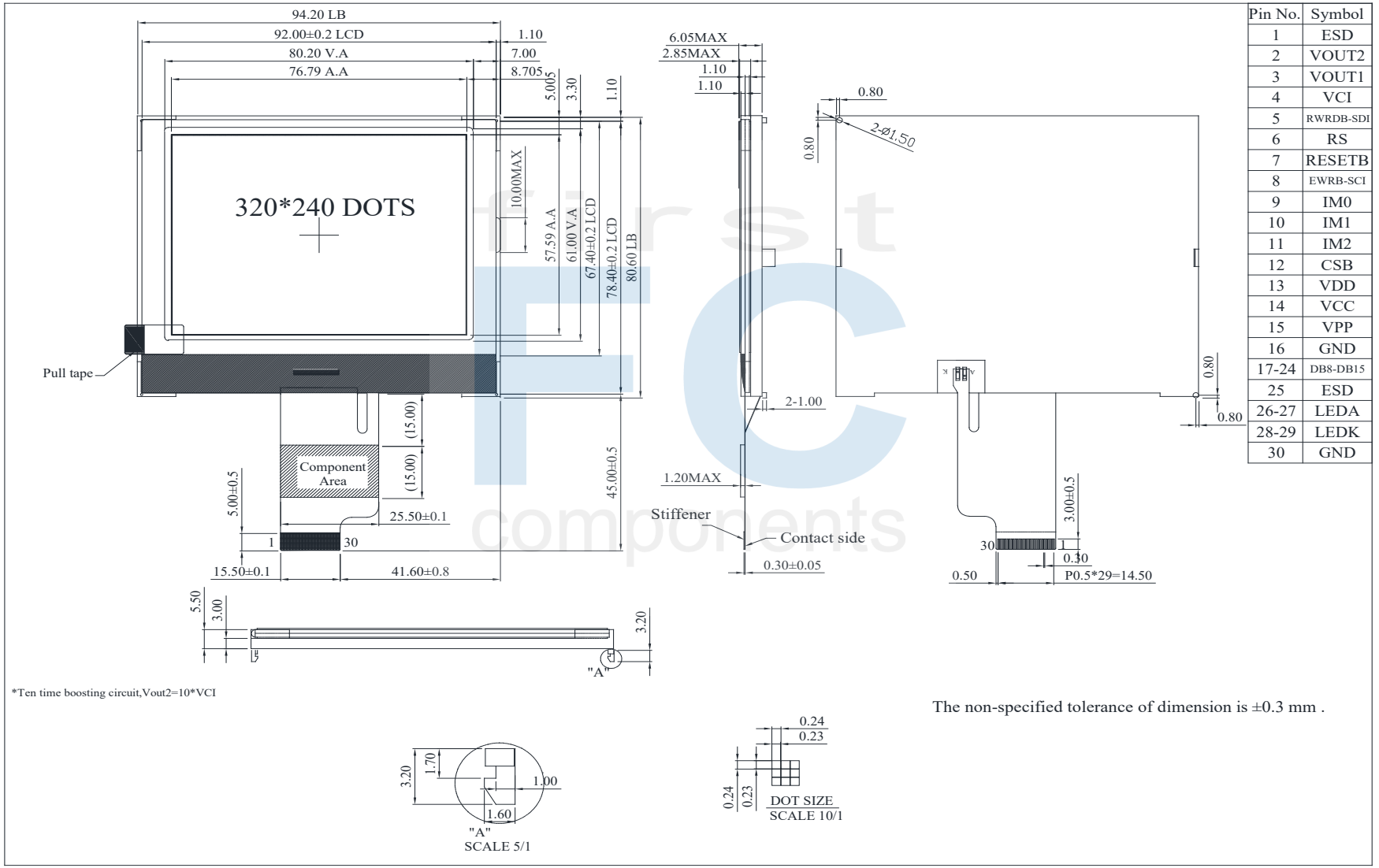
Interface Pin Function

Pin	Symbol	Function Description
1	ESD	ESD
2	VOUT2	VOUT2 is the internal booster output, step-up voltage based on the difference voltage of VCI & GND.
3	VOUT1	VOUT1 is the internal booster output, step-up voltage based on the difference voltage of VCI & GND.
4	VCI	Power source
5	RWRDB-SDI	4-line serial interface
6	RS	Internal resistor select pin
7	RESETB	Reset pin
8	EWRB-SCI	4-line serial interface
9	IM0	
10	IM1	
11	IM2	
12	CSB	Chip select
13	VDD	Power source
14	VCC	Power supply
15	VPP	External power VPP is the power pin of embedded OTP (One-Time-Programming)
16	GND	Ground
17-24	DB8-DB15	8 bit bi-directional data bus.
25	ESD	ESD
26-27	LEDA	Backlight A
28-29	LEDK	Backlight K
30	GND	Ground

IM2	IM1	IM0	MPU interface mode
GND	GND	GND	68-system 16-bit bus interface
GND	GND	VCC	68-system 8-bit bus interface
GND	VCC	GND	80-system 16-bit bus interface
GND	VCC	VCC	80-system 8-bit bus interface
VCC	GND	GND	4-line serial interface

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Contour Drawing



Pin No.	Symbol
1	ESD
2	VOUT2
3	VOUT1
4	VCI
5	RWRDB-SDI
6	RS
7	RESETB
8	EWRB-SCI
9	IM0
10	IM1
11	IM2
12	CSB
13	VDD
14	VCC
15	VPP
16	GND
17-24	DB8-DB15
25	ESD
26-27	LEDA
28-29	LEDK
30	GND