



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



Winstar Display Co., LTD

華凌光電股份有限公司

WEB: <https://www.winstar.com.tw> E-mail: sales@winstar.com.tw



SPECIFICATION

MODULE NO.:

WO320240F

General Specification

Item	Dimension	Unit
Number of dots	320 x 240	—
Outline dimension	94.7 x 83.3 x 9.8max	mm
View area	81.4 x 61.0	mm
Active area	76.785 x 57.11	mm
Dot size	0.223 x 0.225	mm
Dot pitch	0.238 x 0.24	mm
Duty	1/240	
Backlight	LED	
Driver IC	UCi7701*2+UCi7702*1	

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	°C
Storage Temperature	TST	-30	—	+80	°C
Supply Voltage For Logic	VDD	-0.3	—	5.5	V
Supply Voltage For LCD Drive	VLCD	-0.3	—	36	V

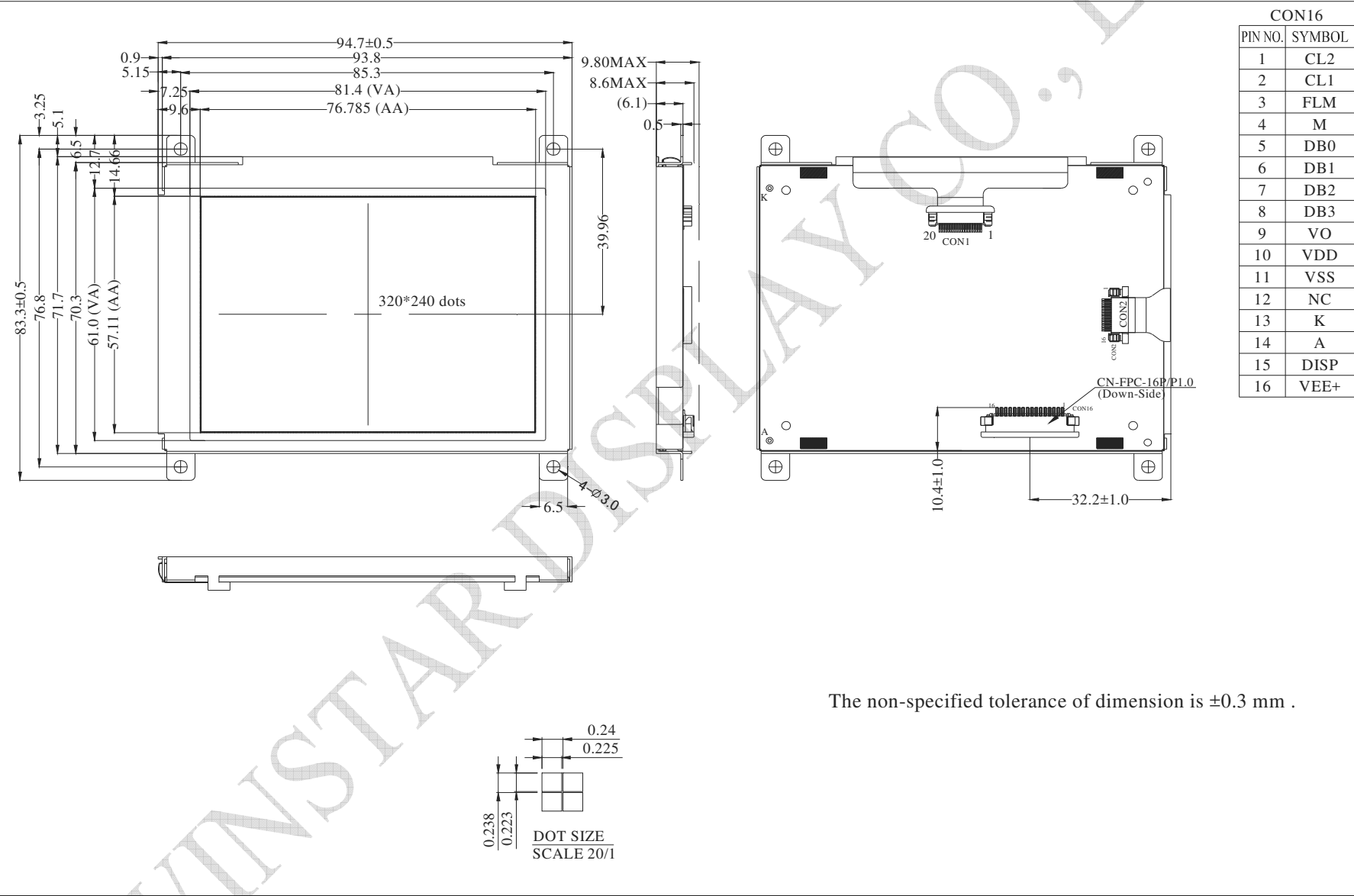
Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	$V_{DD}-V_{SS}$	—	3.0	3.3	3.6	V
	$V_{DD}-V_{SS}$	—	4.7	5.0	5.3	V
Supply Voltage For LCD *Note	V_{OP}	Ta=-20°C	—	—	—	V
		Ta=25°C	22.7	23.0	23.3	V
		Ta=70°C	—	—	—	V
Input High Volt.	V_{IH}	—	$0.8V_{DD}$	—	V_{DD}	V
Input Low Volt.	V_{IL}	—	0	—	$0.2V_{DD}$	V
Output High Volt.	V_{OH}	—	$V_{DD}-0.4$	—	—	V
Output Low Volt.	V_{OL}	—	—	—	0.4	V
Supply Current	I_{DD}	$V_{DD}=3.3V$	—	45.0	70.0	mA
	I_{DD}	$V_{DD}=5.0V$	—	33.0	50.0	mA

Interface Pin Function

Pin No.	Symbol	Level	Description
1	CL2	H to L	Data shift pulse
2	CL1	H to L	Data latch pulse
3	FLM	H/L	Scan start-up signal
4	M	H/L	frame reverse signal (alternate signal)
5	DB0	H/L	Display data, bit0
6	DB1	H/L	Display data, bit1
7	DB2	H/L	Display data, bit2
8	DB3	H	Display data, bit3
9	VO	(Variable)	Power supply for LCD(+V)
10	VDD	3.3V	Power supply for Logic
11	VSS	0V	Ground
12	NC		No connection
13	K	0V	Ground for LED
14	A		Power supply for LED+
15	DISP		Display OFF
16	VEE		Positive Voltage output

Contour Drawing &Block Diagram



The non-specified tolerance of dimension is ± 0.3 mm .