



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司

SPECIFICATION

MODULE NO.: WO128128A2

General Specification

Item	Dimension	Unit
Number of dots	128 x 128	—
Module dimension	60.0 x 62.79 x 8.6	mm
View area	42.0 x 42.0	mm
Active area	44.0 x 44.0	mm
Dot size	0.308 x 0.308	mm
Dot pitch	0.328 x 0.328	mm
Duty	1/136 Duty, 1/12 Bias	
View direction	6 o'clock	
Backlight Type	LED	
IC	ST75161	
Interface	8080	

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T _{OP}	-20	—	+70	°C
Storage Temperature	T _{ST}	-30	—	+80	°C
Power Supply Voltage	V _{DD}	-0.3	—	4.0	V
LCD Power supply voltage	V _{LCD}	-0.3	—	20	V
LCD Power supply voltage	V ₀ -XV ₀	-0.3	—	19	V
Input voltage	V _{IN}	-0.3		V _{DD} +0.3	V

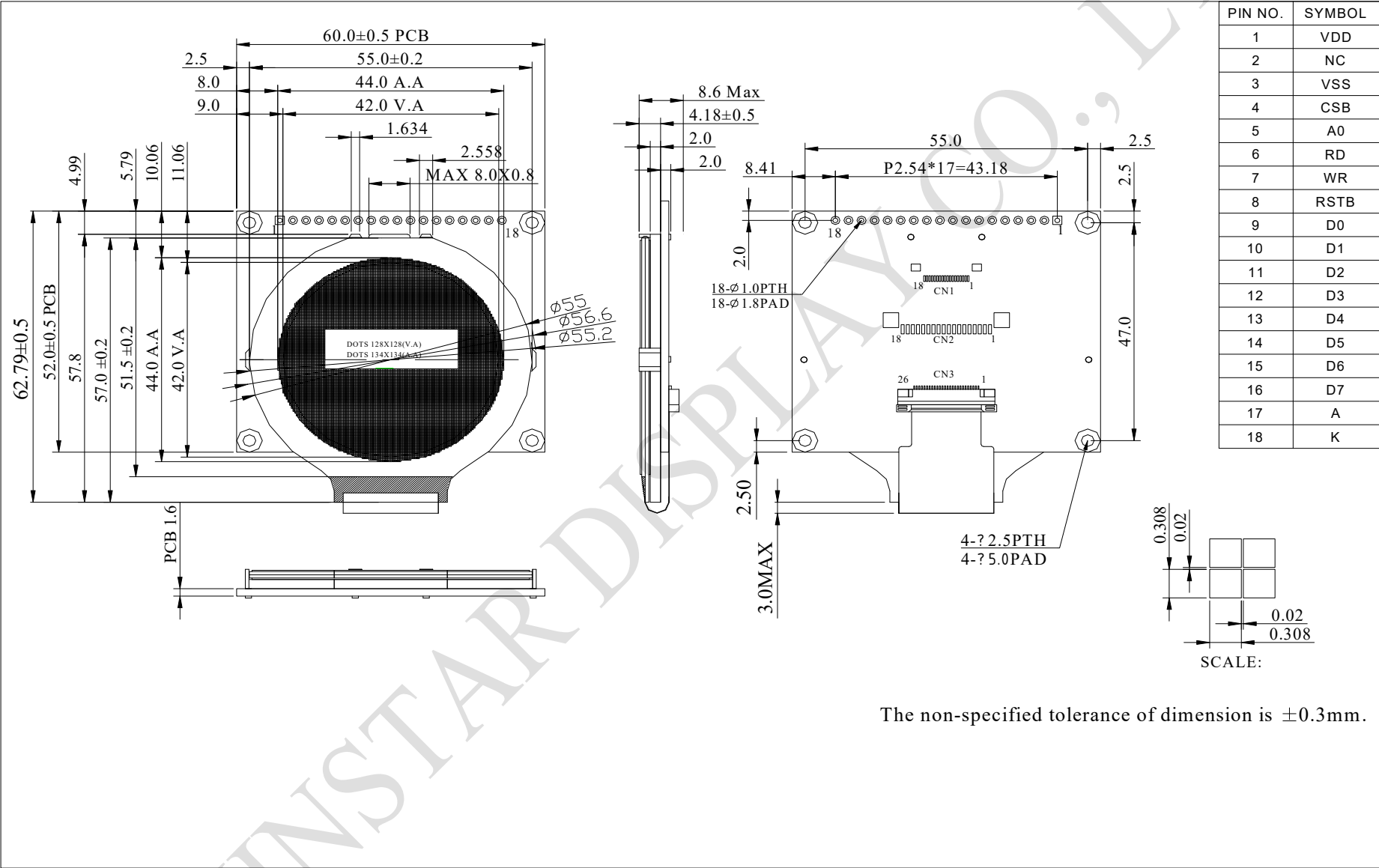
Electrical Characteristics

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Supply Voltage For Logic	V _{DD} -V _{SS}	—	2.7	3.0	3.3	V
Supply Voltage For LCD	V _{OP}	T _a =-20°C	—	—	—	V
		T _a =25°C	13.7	14.0	14.3	V
		T _a =70°C	—	—	—	V
Input High Volt.	V _{IH}	—	0.7 V _{DD}	—	V _{DD}	V
Input Low Volt.	V _{IL}	—	V _{SS}	—	0.3 V _{DD}	V
Output High Volt.	V _{OH}	—	0.8 V _{DD}	—	V _{DD}	V
Output Low Volt.	V _{OL}	—	V _{SS}	—	0.2 V _{DD}	V
Supply Current	I _{DD}	V _{DD} =3.0V	—	2.0	—	mA

Interface Pin Function

Pin No.	Symbol	Function
1	VDD	Power supply
2	NC	No Connection
3	VSS	Ground
4	CSB	Chip select input pin.
5	A0	It determines whether the access is related to data or command.
6	RD	Read / Write execution control pin.
7	WR	Read / Write execution control pin.
8	RSTB	Hardware reset input pin
9-16	D0-D7	8 bit bi-directional data bus
17	A	Anode input for LED backlight.
18	K	Cathode input for LED backlight

Contour Drawing



The non-specified tolerance of dimension is $\pm 0.3\text{mm}$.