

NHD-C160100AZ-RN-GBW

COG (Chip-On-Glass) Liquid Crystal Display Module

NHD-	Newhaven Display
C160100-	160 x 100 pixels
AZ-	Model
R-	Reflective
N-	No backlight
G-	STN- Gray
B-	6:00 view
W-	Wide Temp (-20°C ~ +70°C)

RoHS Compliant

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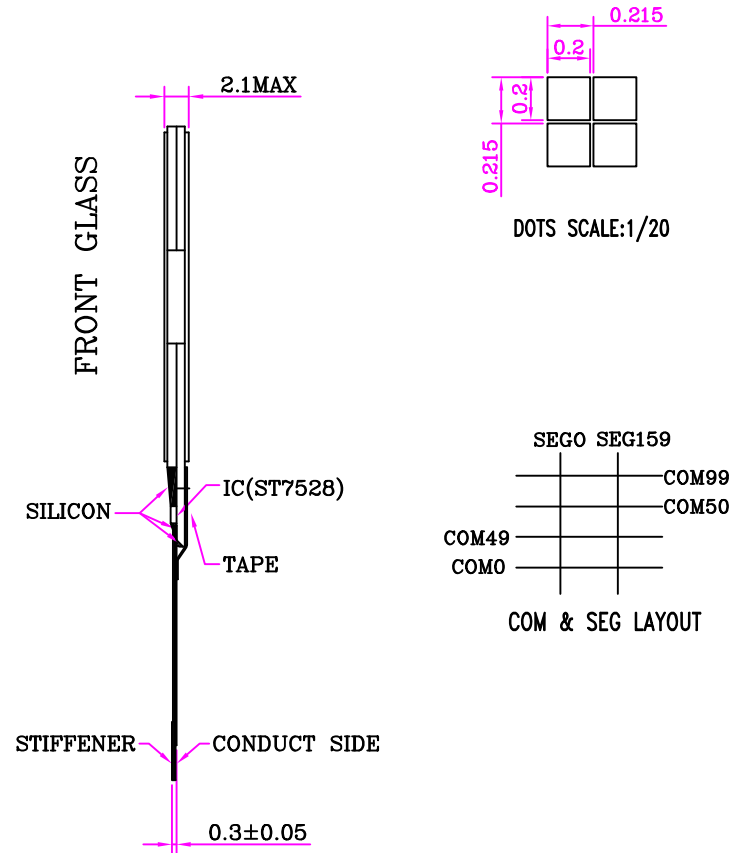
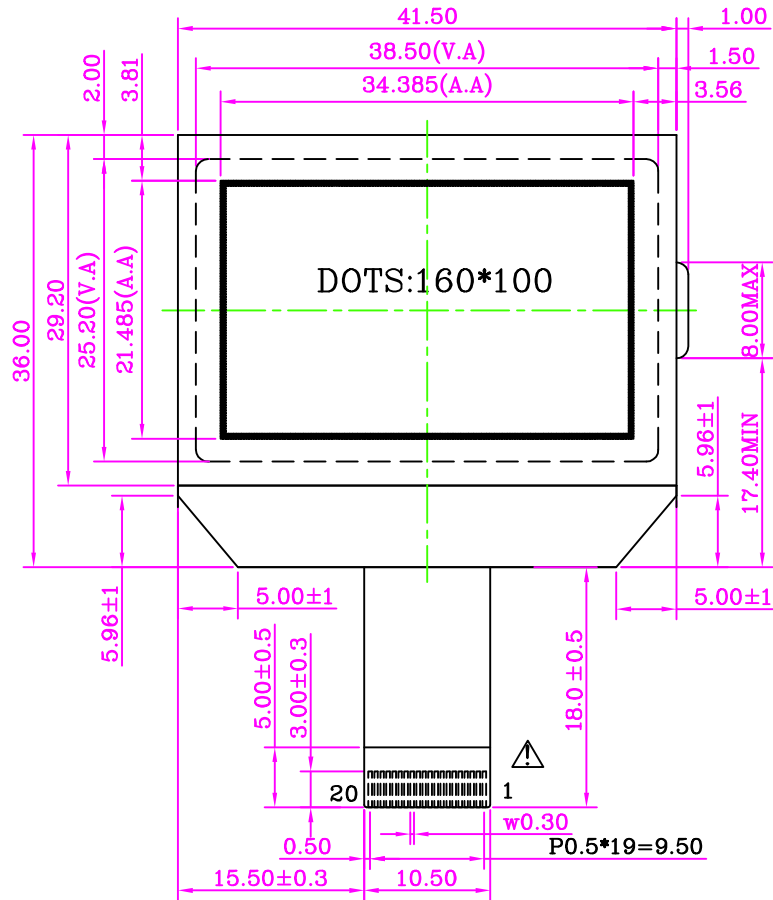
Document Revision History

Revision	Date	Description	Changed by
0	10/31/2007	Initial Release	-
1	9/14/2009	User guide reformat	BE
2	10/14/2009	Updated Electrical Characteristic	MC
3	12/08/2009	Updated Block Diagram, Pins 4 and 5, and Timing Characteristics	MC

Functions and Features

- 160 x 100 pixels
- Built-in ST7528 controller
- +3.0V power supply
- 1/100 duty; 1/11 bias
- RoHS Compliant

Mechanical Drawing



PIN ASSIGNMENT

1	CSB
2	RST
3	A0
4	/WR
5	/RD
6	DB0
7	DB1
8	DB2
9	DB3
10	DB4
11	DB5
12	DB6
13	DB7
14	VDD
15	VSS
16	VOUT
17	V4
18	V3
19	V2
20	V1

Specification:

- 1). Driving: Duty:1/100, 1/11 Bias, Vlcd: 11.5V
- 2). Viewing Direction: 6 O'clock
- 3). Display mode: STN/Gray Mode/Positive/Reflective
- 4). Operating temp.: -20°C~+70°C
Storage temp.: -30°C~+80°C
- 5). Driver : ST7528 Vdd:3.0V
- 6). Unmarked Tolerances: ±0.2mm
- 7). RoHS Compliant

Model Name: NHD-C160100AZ-RN-GBW		<i>Newhaven Display</i>	
GENERAL TOL: ± 0.3			
APPROVALS	DATE	DRAWN NO.	SCALE: 1:1
DWN: YE.GUO.XIANG			
CHK:		SIZE: A4	UNIT: mm
APP:			Page: 1-1

Pin Description and Wiring Diagram

Pin No.	Symbol	External Connection	Function Description
1	CSB	MPU	Active Low chip select
2	RST	MPU	Active Low Reset signal
3	A0	MPU	Register select signal. A0=1: Data, A0=0: Command
4	/WR	MPU	Active LOW write signal
5	/RD	MPU	Active LOW read signal
6-13	DB0-DB7	MPU	Bi-directional 8-bit data bus.
14	VDD	Power Supply	Power supply for LCD and logic (+3.0V)
15	Vss	Power Supply	Ground
16	VOUT	Power Supply	Connect to 1uF cap to VSS or VDD
17	V4	Power Supply	1.0uF-2.2uF cap to Vss
18	V3	Power Supply	1.0uF-2.2uF cap to Vss
19	V2	Power Supply	1.0uF-2.2uF cap to Vss
20	V1	Power Supply	1.0uF-2.2uF cap to Vss

Recommended LCD connector: 0.5mm pitch pins. Molex p/n: 52746-2070

Backlight connector: --- **Mates with:** ---

