

Product Specification

TS-320240BRNO

4-Wire Resistive Touch Panel

TS-	Touch Panel
320240-	For 320x240 LCD Display
BRNO-	Model

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Additional Resources

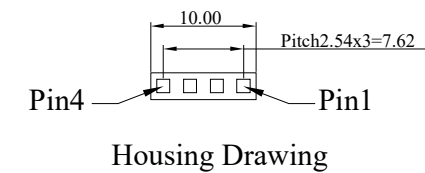
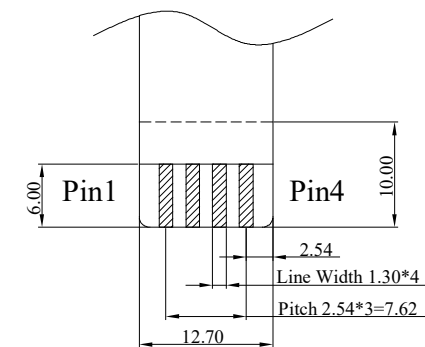
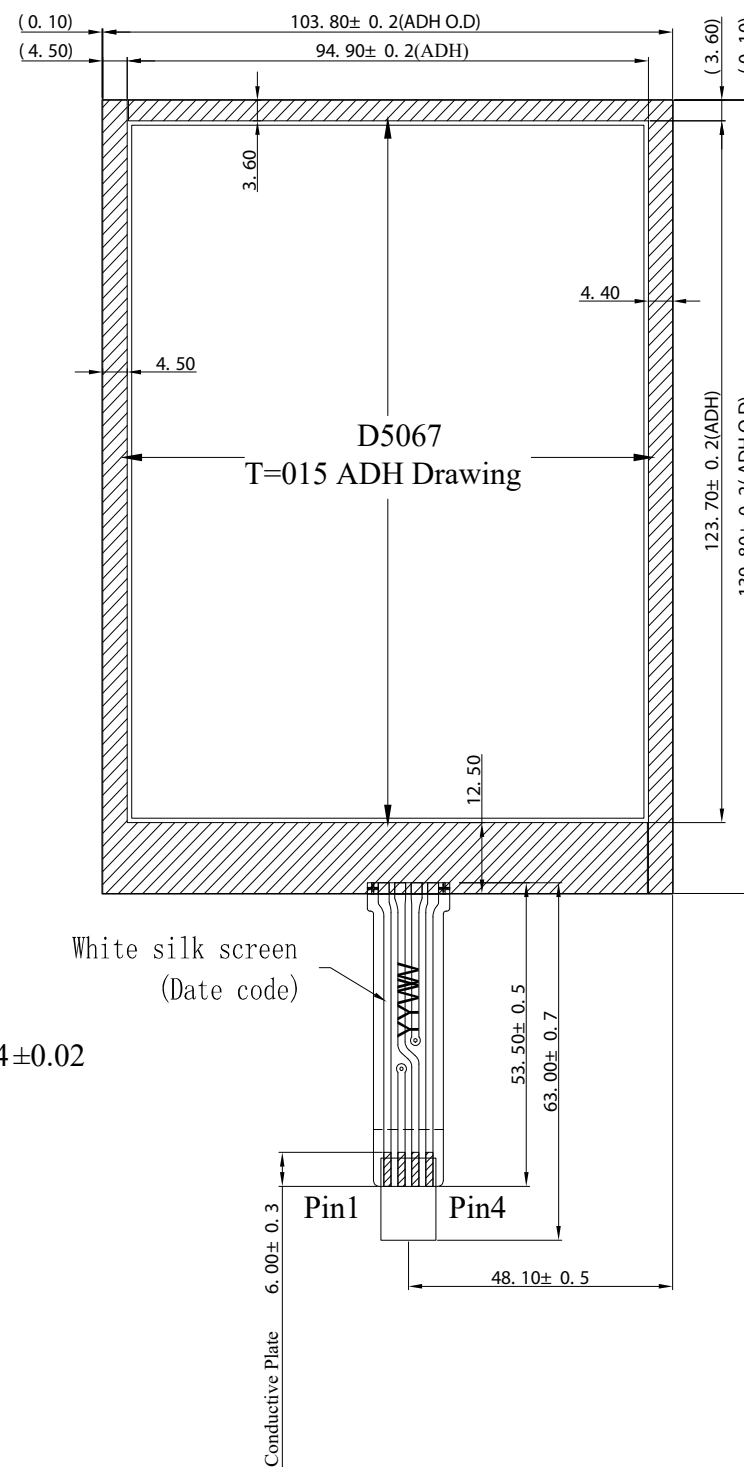
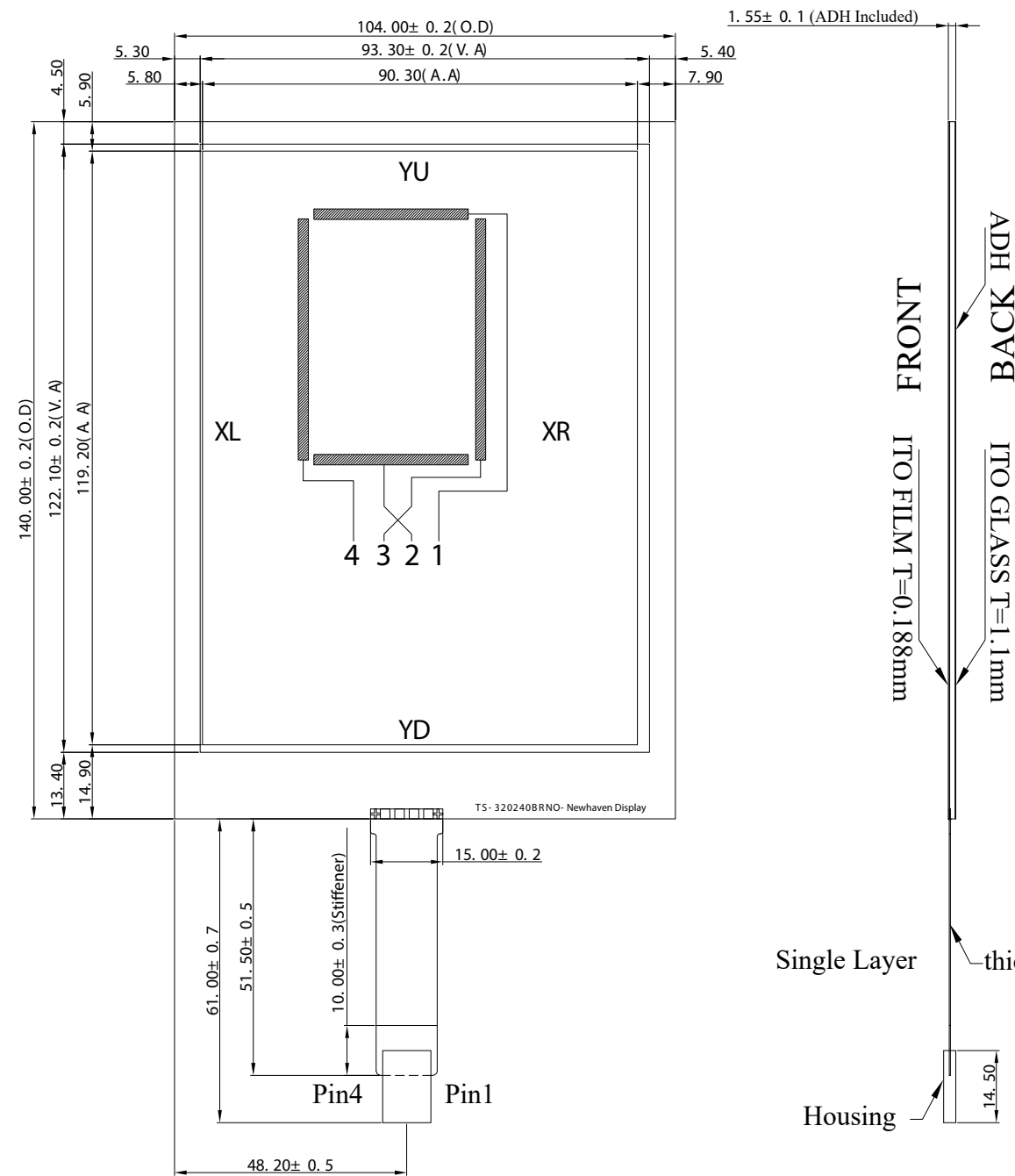
- **Support Forum:** <https://support.newhavendisplay.com/hc/en-us/community/topics>
- **GitHub:** <https://github.com/newhavendisplay>
- **Example Code:** <https://support.newhavendisplay.com/hc/en-us/categories/4409527834135-Example-Code/>
- **Knowledge Center:** https://www.newhavendisplay.com/knowledge_center.html
- **Quality Center:** https://www.newhavendisplay.com/quality_center.html
- **Precautions for using LCDs/LCMs:** <https://www.newhavendisplay.com/specs/precautions.pdf>
- **Warranty / Terms & Conditions:** <https://www.newhavendisplay.com/terms.html>



Document Revision History

Revision	Date	Description	Changed By
0	11/19/2020	Initial Product Release	AS
1	01/10/2023	Date Code Format updated	KL
2	04/18/2023	Mechanical Drawing Updated	KL

Mechanical Drawing



Single Layer thickness 0.24±0.02
Housing

Product Description: 320x240 Resistive Touch Panel

1. Type: Glass + Film
2. Interface: 4-wire
3. Power Requirement: 3V ~ 15V (1.0mA)
4. Resistance: 150~650Ω (X-axis), 350~1000Ω (Y-axis)
5. Operating Force: 30~100g
6. Surface Hardness: ≥3H
7. Transmittance: >78%
8. Recommended Pin Header: 4pin 2.54mm pitch

PIN OUT	
1	YU
2	YD
3	XR
4	XL

Standard Tolerance: (Unless otherwise specified) Linear: ±0.3mm	 Drawing/Part Number: TS-320240BRNO		Revision: -
	Drawn By: K. Lewis Drawn Date: 04/18/2023	Approved By: K. Lewis Approved Date: 04/18/2023	
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Touch Panel Characteristics

Item	Min	Typ.	Max	Unit
Operating Temperature Range	-10	-	+60	°C
Storage Temperature Range	-20	-	+70	°C
Terminal Resistance – X-Axis	150	-	650	Ω
Terminal Resistance – Y-Axis	350	-	1000	Ω
Insulation Resistance	20	-	-	MΩ
Operating Voltage	3	-	15	V
Chattering	-	-	10	ms
Activation Force	30	-	100	g
Pitting Durability	1,000,000	-	-	Touches
Pen Writing Durability	20,000	-	-	Characters
Surface Hardness	3	-	-	H
Transmittance	78	-	-	%
Haze	4	7	10	%

Quality Information

Test Item	Content of Test	Test Condition
High Temperature	Test the endurance of the touch panel at high temperature	+70°C, 96 Hrs.
High Temperature / Humidity	Test the endurance of the touch panel with high heat and humidity	+50°C 90%RH, 96 Hrs.
Low Temperature	Test the endurance of the touch panel at a low temperature.	-20°C, 96 Hrs.
Thermal Cycle	Test the durability of the display through a range of temperatures	-10° C – 60°C (60 min/cycle) 10 Times.