

L150X2M Inspection Specifications

1. Purpose:

This display quality inspection specifications define 15.0" XGA TFT - LCD module cosmetic inspections.

2. Scope:

2.1 Specifications contains

- .. Electrical inspection specification
- .. Appearance specification
- .. Outside dimension specification

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2.2 This specifications shall be applied to 15.0" XGA TFT - LCD module.

3. Electrical inspection specification

	Inspection Item	Specification
1	Line defect	Can't be seen.
2	Bright dots	6 dots
3	Green bright dots	4 dots
4	Dark dots	6 dots
5	Total dots defect	8 dots
6	Continuous defect	Two continuous bright dots(vertical, horizontal, oblique) : 2 pairs Three or more continuous bright dots (vertical, horizontal, oblique) : Not allowed Two continuous dark dots (vertical, horizontal, oblique) : 2 pairs Three or more continuous dark dots (vertical, horizontal, oblique) : Not allowed Distance between 2 B dots : 15 mm Distance between 2 D dots : 5 mm
7	Display scratch	Refer to 4 . Appearance specifications
8	Dust, stain, bubble	Refer to 4 . Appearance specifications
9	Polarizer scratch	Refer to 4 . Appearance specifications

Note)

1. For pixel defect, one sub pixel is defined for one pixel.

4. Appearance specification

4.1 Judgment conditions

- 1) To be a distance about 30cm in front of LCD unit, judge the visual appearance with human's eyes.
- 2) Take off the protector of polarizer while judging the display area.
- 3) If there is any question while judging, check the panel again while operating.

4.2 Appearance inspection specification

Judge area	Judge item		Inspection specification			Judge criterion		
						Critical	major	minor
www.DataSheet4U.com	Particles, scratch and bubbles in display area (note 1)	Dot defect	Average diameter:D(mm)		Numbers			
			D<0.15		Disregarded			
			0.15 D<0.30		n 5			
			0.30 D		n=0			
	Line defect	Width:W(mm)	Length:L(mm)	Numbers				
				Disregarded				
				n 5				
	0.05 W 0.1		2 L 10	n=0				
	0.1<W		10<L					
	Defect	It should not be found by eyes.						
Dirt								
Grains								
Bubble in cell(active area)	It should not be found by eyes.							
From active area outside 1.7mm	The end of polarizer	The edge of polarizer can't be seen.						
Bezel	Scratch	No harm						
	Dirt							
	Wrap	No dangerous						
	Sunken	No harm						
Label (S/N, B/L, WEEK)	No label	No						
	Invert label							
	Broken							
	Dirt	Word can be read.						
	Not clear							
	Word out of shape							
	Mistake	No						
Position	Be attached on right position							
Solder	Appearance	Can't see the abnormal color, shape, hurt, dirt (fused goods, etc.). If it is necessary, please prepare sample.						
Screw	Not enough	No						
	Limp	No						
White sheet	Shell, rub	No						
connector	Connection status	Need correct connection.						
FPC/FFC	Broken	No						

Note 1 : When $L \geq 2W$, defect count as line defect.

5. Outside dimension specification

Testing order	Testing Item		Defect	Specification			Note
	Name	Unit		Min	Typ	Max	
1	Outside dimension (vertical)	mm		248.5	249.0	249.5	
2	Outside dimension (horizontal)	mm		335.5	336.0	336.5	
3	Outside dimension (thickness)	mm		13.0	13.5	14.0	
4	Weight	g		1130	1200	1270	

Note: Thickness doesn't include bending reason.