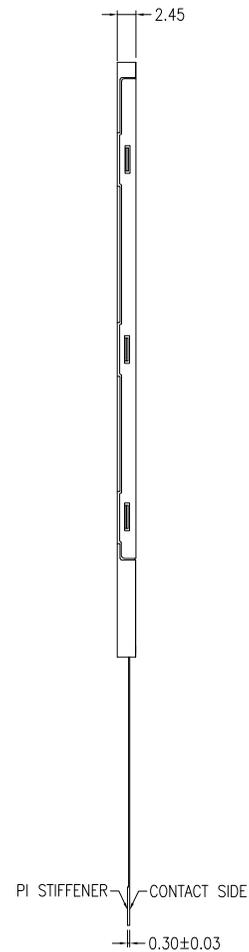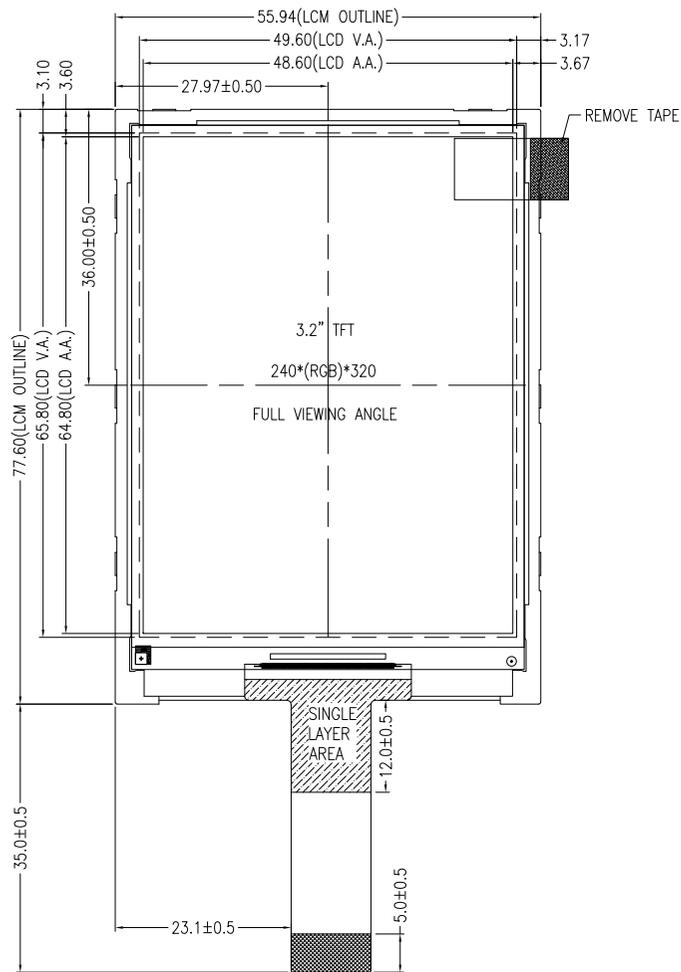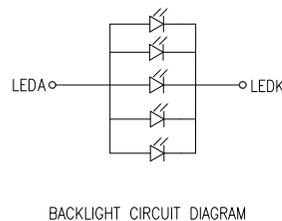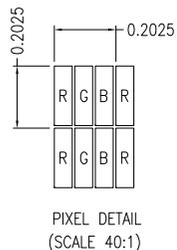FOR ANY TOUCH PANEL OR OTHER ACCESSORIES ASSEMBLED WITH FRAME GLUE, A PERMANENT AND RELIABLE MECHANICAL
STRUCTURE NEEDS TO BE DESIGNED ON CUSTOMER'S WHOLE MACHINE TO HOLD THEM IN PLACE TO AVOID LOOSE.

3.2" TFT

240*(RGB)*320

FULL VIEWING ANGLE

REMOVE TAPE

SINGLE LAYER AREA

METAL FRAME (SS)

PI STIFFENER — CONTACT SIDE

0.30±0.03

W=0.30±0.03
P=0.50±0.05
9.50±0.05
10.5±0.1
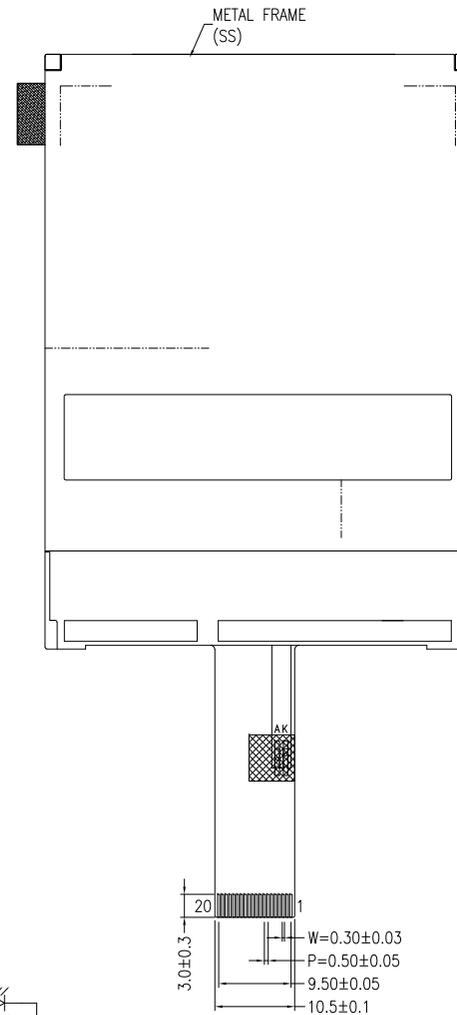
PIN ASSIGNMENT FOR LCM

PIN	SYMBOL
1	GND
2	VDD
3	D7
4	D6
5	D5
6	D4
7	D3
8	D2
9	D1
10	D0
11	SDA
12	RD
13	WR
14	DC
15	CS
16	RST
17	IM1
18	IM2
19	LEDA
20	LEDK

PIXEL DETAIL
(SCALE 40:1)

R	G	B	R
R	G	B	R

BACKLIGHT CIRCUIT DIAGRAM

LEDA — LEDK

INTERFACE SELECTION

IM2	IM1	INTERFACE	DATA BUS
0	0	8-BIT MCU	D7~D0
1	1	4-WIRE SPI	SDA: IN/OUT

NOTES:

1. DISPLAY TYPE: TFT, TRANSMISSIVE, NORMALLY BLACK
2. OPERATING VOLTAGE: VDD=2.8V (TYP.)
3. VIEWING DIRECTION: FULL VIEWING ANGLE
4. DRIVER IC: ST7789T3
5. OPERATING TEMP: -30°C ~ 85°C
6. STORAGE TEMP: -30°C ~ 85°C
7. BACKLIGHT TYPE: WHITE LED, IF=100MA, VF=2.8V~3.4V
8. SURFACE LUMINANCE: 320CD/M^2 (TYP.)
9. TOP POLARIZER SURFACE TREATMENT: ANTI-GLARE
10. RECOMMEND MATCHING CONNECTOR: HRS FH19SC-20S-0.5SH OR EQUIVALENT
11. ONLY THE SINGLE LAYER AREA ON FPC IS BENDABLE AND THE MINIMUM BEND RADIUS IS 1.5MM
12. UNMARKED TOLERANCE: ±0.2MM
13. ROHS COMPLIANT

MULTI-INNO TECHNOLOGY CO., LTD.

DRAWN BY:	RITA		MODULE P/N:
CHECKED BY:		SCALE : 1/1	MI0320AAT-1
APPROVED BY:		UNIT: mm	DESCRIPTION:
VERSION NO:	01	SHEET NO: 1/1	TFT MODULE

01	FIRST ISSUE	RITA	2025.09.17
VER.	REVISED DESCRIPTION	REVISER	DATE