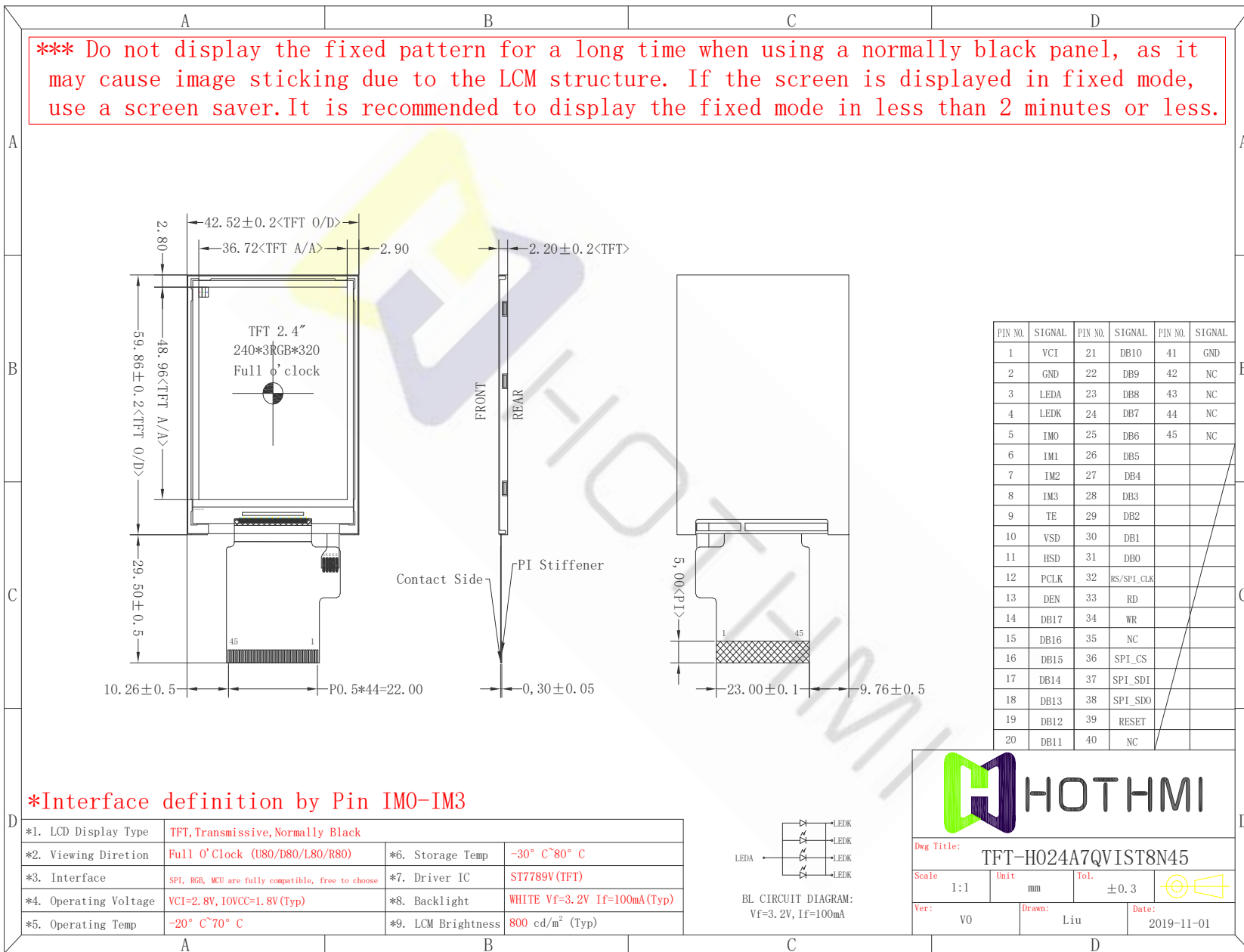




## 2. Outline Dimensions

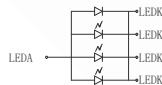
\*\*\* Do not display the fixed pattern for a long time when using a normally black panel, as it may cause image sticking due to the LCM structure. If the screen is displayed in fixed mode, use a screen saver. It is recommended to display the fixed mode in less than 2 minutes or less.



PIN NO.	SIGNAL	PIN NO.	SIGNAL	PIN NO.	SIGNAL
1	VCI	21	DB10	41	GND
2	GND	22	DB9	42	NC
3	LEDA	23	DB8	43	NC
4	LEDK	24	DB7	44	NC
5	IM0	25	DB6	45	NC
6	IM1	26	DB5		
7	IM2	27	DB4		
8	IM3	28	DB3		
9	TE	29	DB2		
10	VSD	30	DB1		
11	HSD	31	DB0		
12	PCLK	32	RS/SPI_CLK		
13	DEN	33	RD		
14	DB17	34	WR		
15	DB16	35	NC		
16	DB15	36	SPI_CS		
17	DB14	37	SPI_SDI		
18	DB13	38	SPI_SDO		
19	DB12	39	RESET		
20	DB11	40	NC		

### \*Interface definition by Pin IM0-IM3

*1. LCD Display Type	TFT, Transmissive, Normally Black	*6. Storage Temp	-30° C~80° C
*2. Viewing Direction	Full o'Clock (U80/D80/L80/R80)	*7. Driver IC	ST7789V (TFT)
*3. Interface	SPI, RGB, MCU are fully compatible, free to choose	*8. Backlight	WHITE Vf=3.2V If=100mA (Typ)
*4. Operating Voltage	VCI=2.8V, IOVCC=1.8V (Typ)	*9. LCM Brightness	800 cd/m <sup>2</sup> (Typ)
*5. Operating Temp	-20° C~70° C		



**HOT-HMI**

Dwg Title: **TFT-H024A7QV1ST8N45**

Scale: 1:1    Unit: mm    Tol: ±0.3

Ver: V0    Drawn: Liu    Date: 2019-11-01