



BACKLIGHT CIRCUIT DIAGRAM

NOTE FOR TFT:

1. DISPLAY TYPE: TFT, TRANSMISSIVE, NORMALLY WHITE
2. OPERATING VOLTAGE: VDD=2.8V (TYP.)
3. VIEWING DIRECTION: 6 O'CLOCK
4. DRIVER IC: ST7789V2
5. LED BACKLIGHT: 4-CHIP WHITE LED, If=40mA, Vf=5.8V~6.6V
6. TOP POLARIZER SURFACE TREATMENT: GLARE

NOTE FOR CTP:

1. 2.83 INCH PROJECTIVE CAPACITIVE TOUCH PANEL
2. COVER GLASS + SENSOR GLASS + FPCA
3. OPERATING VOLTAGE: VDD=2.8V (TYP.)
4. DRIVER IC: FT5446-P03 OR FT5446DQS
5. INTERFACE: I<sup>2</sup>C
6. RESOLUTION: 240\*320
7. MULTI FINGER: UP TO 10
8. HARDNESS OF COVER SURFACE: ≥6H
9. FIRMWARE FILE: MI0283CCP-C22(F5446-P03)\_Firmware\_V09\_20200519 MI0283CCP-C22(FT5446DQS) V02 Firmware 20170419

NOTE FOR OTHERS:

1. OPERATING TEMP.: -20°C ~ 70°C
2. STORAGE TEMP.: -30°C ~ 80°C
3. SURFACE LUMINANCE: 255 CD/M<sup>2</sup> (TYP.)
4. THE SINGLE LAYER AREA OF FPC IS BENDABLE AND THE BENDING RADIUS MUST BE NOT LESS THAN 1.5MM
5. GENERAL TOLERANCE: ±0.2MM
6. ROHS COMPLIANT

TFT PIN DESCRIPTION	
PIN	SYMBOL
1	LEDK
2	LEDA
3	IMO
4	IM1
5	IM2
6	RESET
7	HSYNC
8	VSYSN
9	DCLK
10	DE
11	DB17
12	DB16
13	DB15
14	DB14
15	DB13
16	DB12
17	DB11
18	DB10
19	DB9
20	DB8
21	DB7
22	DB6
23	DB5
24	DB4
25	DB3
26	DB2
27	DB1
28	DB0
29	SDO
30	SDI
31	RD
32	WRX
33	D/CX
34	CSX
35	TP_RES
36	TP_INT
37	TP_SDA
38	TP_SCK
39	VDD
40	GND

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DRAWN BY:	CAROL	2021.05.18		MODULE P/N:
CHECKED BY:			SCALE : 1/1	MI0283Q3T-22CP2
APPROVED BY:			UNIT: mm	DESCRIPTION:
VERSION NO:	01		SHEET NO.: 1/1	TFT + CTP MODULE

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VER.	REVISED DESCRIPTION	REVISER	DATE