



Military Display

5 inch LCD Kit Specification

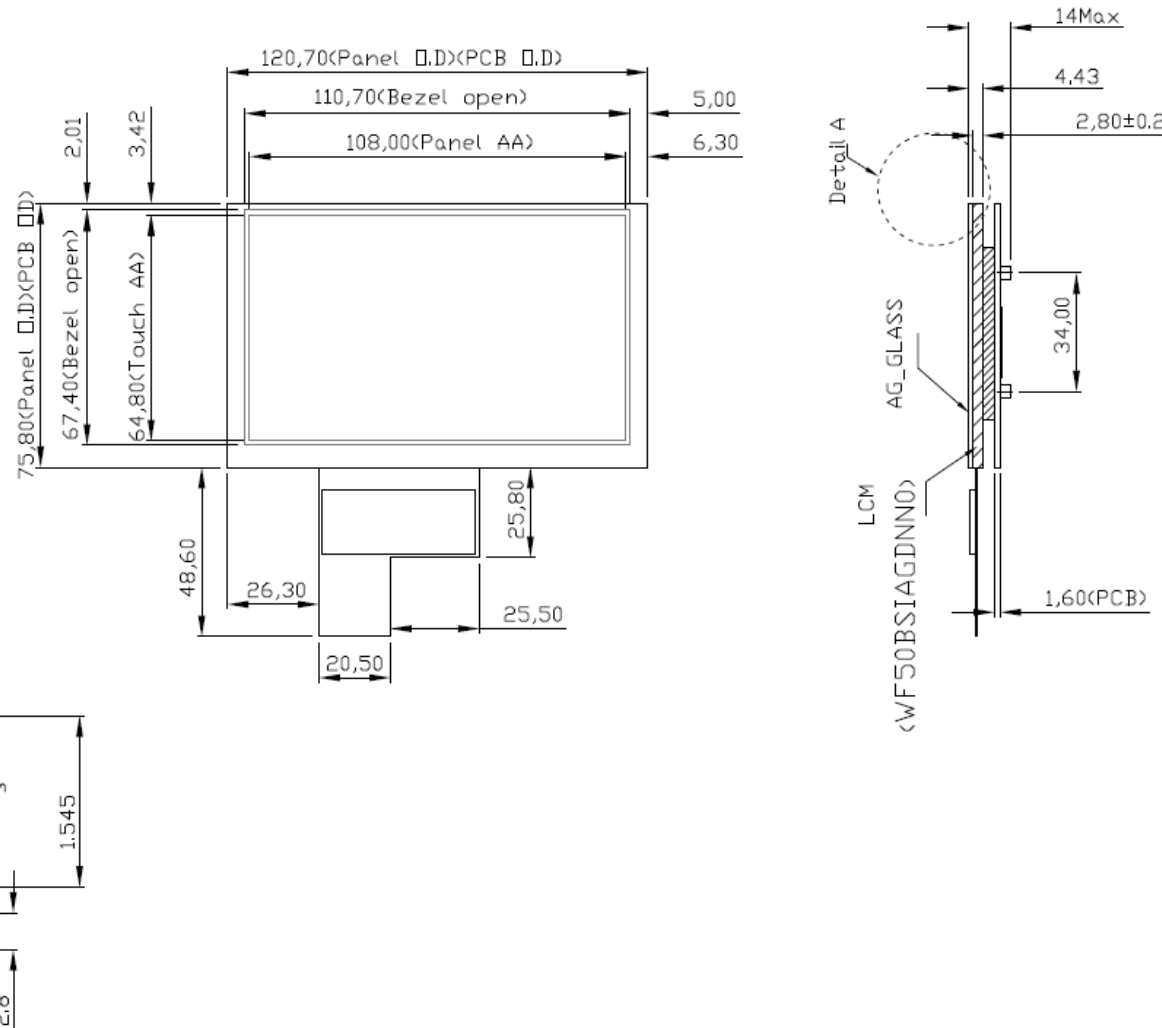
Model No. : SLM-MN050K-E

Date : 2022/7/29

ACT Power GM Approve	ACT Power PM Approve

SLM-MN050K-E

Appearance



HDMI Pin Assignment

Pin No.	Symbol	I/O	Function	Remark
1	Rx2+	I	+LVDS Differential Data Input	
2	GND	P	Ground	
3	Rx2-	I	-LVDS Differential Data Input	
4	Rx1+	I	+LVDS Differential Data Input	
5	GND	P	Ground	
6	Rx1-	I	-LVDS Differential Data Input	
7	Rx0+	I	+LVDS Differential Data Input	
8	GND	P	Ground	
9	Rx0-	I	-LVDS Differential Data Input	
10	RxC+	I	+LVDS Differential Clock Input	
11	GND	P	Ground	
12	RxC-	I	-LVDS Differential Clock Input	
13-14	NC	-	No connection	
15	SCL	I/O	DDC(Data Display Channel) Clock	
16	SDA	I/O	DDC(Data Display Channel) Data	
17	GND	P	Ground	
18	5V	P	Power Supply	
19	Detect	I/O	Hot plug detect	

I: input, O: output, P: Power

Specifications

LCD Module

LCD Size	5 TFT LCD
Backlight	LED, Normally White
Resolution	800 x 480
View Direction	12 o'clock
Gray Scale Inversion Direction	6 o'clock
Luminance	400 cd/m2 (after bonding)
Contrast Ratio	500:1
Aspect Ratio	5:3
Response Time	25 (Tr+Tf)
TFT Interface	HDMI
Active area	108 x 64.8mm
Pixel Pitch	0.135(H) x 0.135 (V)
LED Life Time	50,000 Hr
Expansion	Raspberry PI CM4 compatible

Touch Screen

Touch Type	-
Viewable Area	-
Active Area	-
Touch Glass	-

Environmental

Operating Temperature	-20°C to +70°C
Storage Temperature	-30°C to +80°C
Humidity	95% RH, @ 70°C non-condensing
EMI/EMC	The LCD Kit is designed to meet ML-STD-461E/F for a whole display unit(Note)
Shock	The LCD Kit is designed to meet MIL-STD-810D for a whole display unit(Note)
Vibration	The LCD Kit is designed to meet MIL-STD-810E for a whole display unit(Note)
Altitude above sea level	0~9144 M (30000 feet)(Note)
Net Weight	Approx. 50 g (The actual weight is determined by the final designed and application.)
Gross Weight	Approx. 170 g (The actual weight is determined by the final designed and application.)

Note:
 This LCD kit provides basic requirements to be assembled for meeting above certification while the final validation on finishing product would still depend on final design.

Order information

Model Name	Description	Qty
SLM-MN050K-E	5 inch no touch military lcd kit	1