



SPECIFICATION

MODULE NO.: WF70GTZAGDNTY#

General Specifications

Item	Dimension	Unit
Size	7.0	inch
Dot Matrix	800 x RGBx480(TFT)	dots
Module dimension	165.0(W) x 100(H) x 7.2(D)	mm
Active area	154.08 x 85.92	mm
Dot pitch	0.0642 x 0.179	mm
LCD type	TFT, Normally White, Transmissive	
View Direction	12 o'clock	
Gray Scale Inversion Direction	6 o'clock	
Backlight Type	LED, Normally White	
With /Without TP	With RTP	
Surface	Anti-Glare	

*Color tone slight changed by temperature and driving voltage.

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	°C
Storage Temperature	TST	-30	—	+80	°C

Electrical Characteristics

Item	Symbol	Values			Unit
		Min.	Typ.	Max.	
Power voltage	VCC	3.0	3.3	3.6	V
	AVDD	10.1	10.4	10.6	V
	VGH	15.3	16.0	16.7	V
	VGL	-7.7	-7.0	-6.3	V
Input signal voltage	VCOM	2.6	3.6	4.6	V
Input logic high voltage	VIH	0.7VCC	-	VCC	°C
Input logic low voltage	VIL	0	-	0.3VCC	°C

Interface

Pin No.	Symbol	I/O	Function
1	LED_Anode	P	Power supply for backlight
2	LED_Anode	P	Power supply for backlight
3	LED_Cathode	P	Backlight ground
4	LED_Cathode	P	Backlight ground
5	GND	P	Power ground
6	VCOM	I	Common voltage
7	VCC	P	Power for digital circuit
8	MODE	I	DE/SYNC mode select
9	DEN	I	Data input enable
10	VSD	I	Vertical Sync input
11	HSD	I	Horizontal sync input
12	B7	I	Blue data (MSB)
13	B6	I	Blue data
14	B5	I	Blue data
15	B4	I	Blue data
16	B3	I	Blue data
17	B2	I	Blue data
18	B1	I	Blue data
19	B0	I	Blue data(LSB)
20	G7	I	Green data(MSB)
21	G6	I	Green data
22	G5	I	Green data
23	G4	I	Green data
24	G3	I	Green data
25	G2	I	Green data
26	G1	I	Green data
27	G0	I	Green data(LSB)
28	R7	I	Red data(MSB)
29	R6	I	Red data
30	R5	I	Red data
31	R4	I	Red data
32	R3	I	Red data
33	R2	I	Red data
34	R1	I	Red data
35	R0	I	Red data(LSB)
36	GND	P	Power ground
37	DCLK	I	Sample clock
38	GND	P	Power ground
39	L/R	I	Left /right selection
40	U/D	I	Up/ down selection
41	VGH	P	Gate ON voltage
42	VGL	P	Gate OFF voltage
43	AVDD	P	Power for analog circuit
44	RSTB	I	Global reset pin

45	NC	-	No connection
46	VCOM	I	Common voltage
47	DITHB	I	Dithering function
48	GND	P	Power ground
49	NC	-	No connection
50	NC	-	No connection

I: input O: output P: power

WINSTAR DISPLAY CO., LTD

