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SPECIFICATION

CUSTOMER ：

MODULE NO.: WF35-320240L16#006-FC

General Specification

Item	Dimension	Unit
Dot Matrix	320 x RGBx240(TFT)	dots
Module dimension	93.5 x 66.44 x 8.4	mm
Active area	70.08 x 52.56	mm
Dot pitch	0.073 x 0.219	mm
LCD type	TFT, Negative, Transmissive	
View Direction	12 o'clock	
Gray Scale Inversion Direction	6 o'clock	
Backlight Type	LED ,Normally White	
Controller IC	SSD1963	
Interface	Digital 8080 family MPU	
TS	CTP	
TS Interface	I2C	

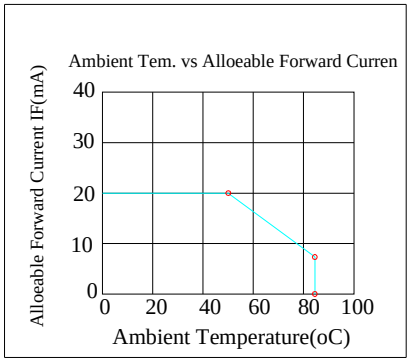
*Color tone slight changed by temperature and driving voltage.

Absolute Maximum Ratings

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

Note: Device is subject to be damaged permanently if stresses beyond those absolute maximum ratings listed above

1. Temp. ≦60℃, 90% RH MAX. Temp.＞60℃, Absolute humidity shall be less than 90% RH at 60℃



Elettrical Characteristics

Operating conditions:

Item	Symbol	Condition	Min	Typ	Max	Unit	Remark
Supply Voltage For LCM	VDD	—	3.0	3.3	3.6	V	-
Supply Current For LCM	IDD	VDD=3.3V	-	310	470	mA	Note1
Power Consumption	-	VDD=3.3V	-	1020	1690	mW	Note1
Supply Voltage For CTP	VDDT	—	2.8	-	3.3	V	

Note 1 : This value is test for VDD=3.3V , Ta=25℃ only

LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit	Remark
LED current		-	20	-	mA	
Power Consumption		348	384	408	mW	
LED voltage	VBL+	17.4	19.2	20.4	V	Note 1
LED Life Time		-	50,000	-	Hr	Note 2,3,4

Interface

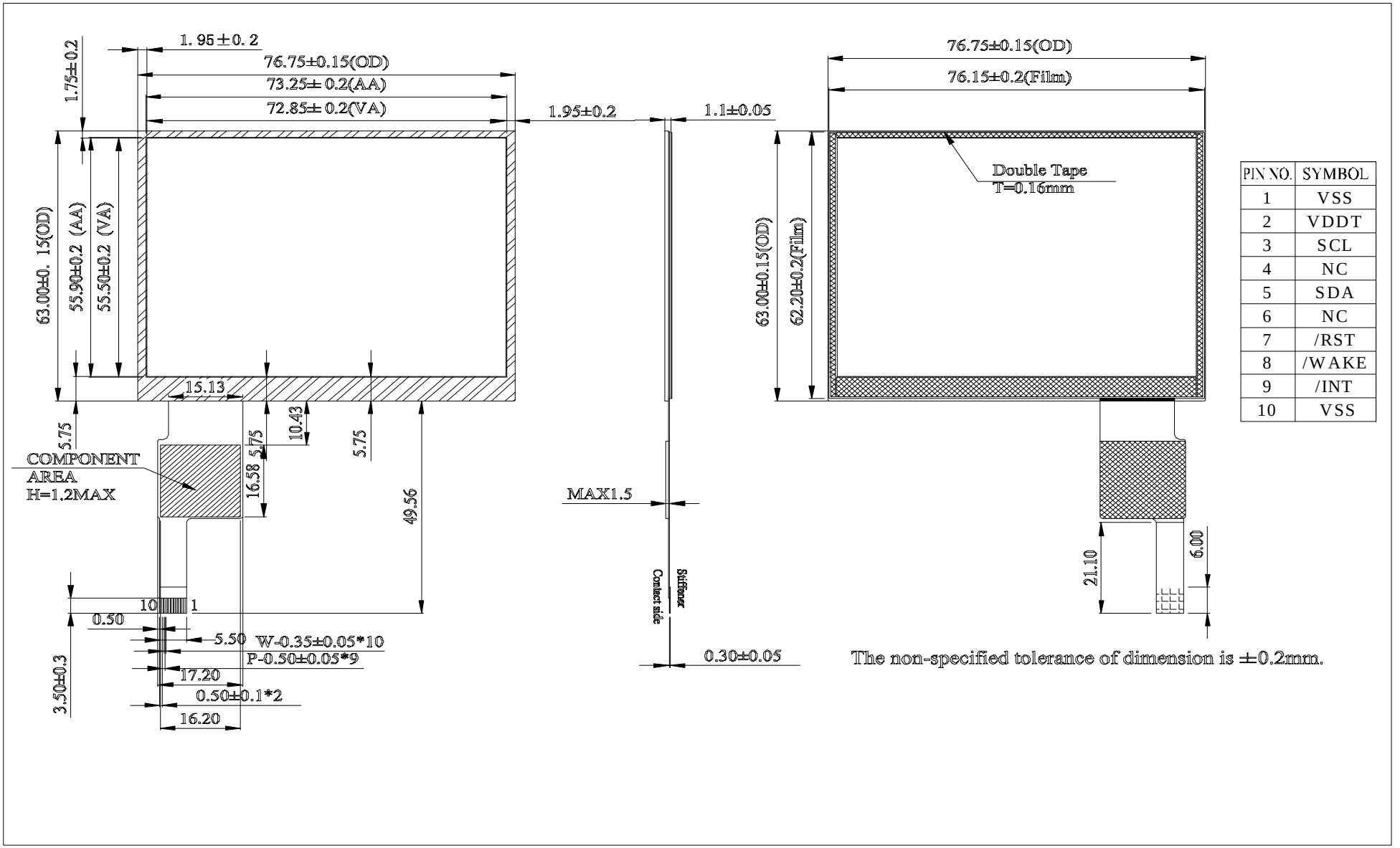
LCM PIN Definition

Pin	Symbol	Function	Remark
1	GND	System ground pin of the IC. Connect to system ground.	
2	VDD	Power Supply : +3.3V	
3	BL_E	Backlight control signal , H: On \ L :Off	
4	D/C	Data/Command select	
5	WR	Write strobe signal	
6	RD	Read strobe signal	
7	DB0	Data bus	
8	DB1	Data bus	
9	DB2	Data bus	
10	DB3	Data bus	
11	DB4	Data bus	
12	DB5	Data bus	
13	DB6	Data bus	
14	DB7	Data bus	
15	DB8	Data bus	
16	DB9	Data bus	
17	DB10	Data bus	
18	DB11	Data bus	
19	DB12	Data bus	
20	DB13	Data bus	
21	DB14	Data bus	
22	DB15	Data bus	
23	NC	No connect	
24	NC	No connect	
25	CS	Chip select	
26	RESET	Hardware reset	
27	NC	No connect	
28	NC	No connect	
29	NC	No connect	
30	NC	No connect	
31	NC	No connect	
32	NC	No connect	

CTP PIN Definition

Pin	Symbol	Function	Remark
1	VSS	System ground pin of the IC. Connect to system ground.	
2	VDDT	Power Supply : +3.3V	
3	SCL	SPI Slave mode, chip select, active low I2C clock input	
4	NC	No connect	
5	SDA	SPI Slave mode, data input I2C data input and output	
6	NC	No connect	
7	/RST	External Reset, Low is active	
8	/WAKE	External interrupt from the host	
9	/INT	External interrupt to the host	
10	VSS	System ground pin of the IC. Connect to system ground.	

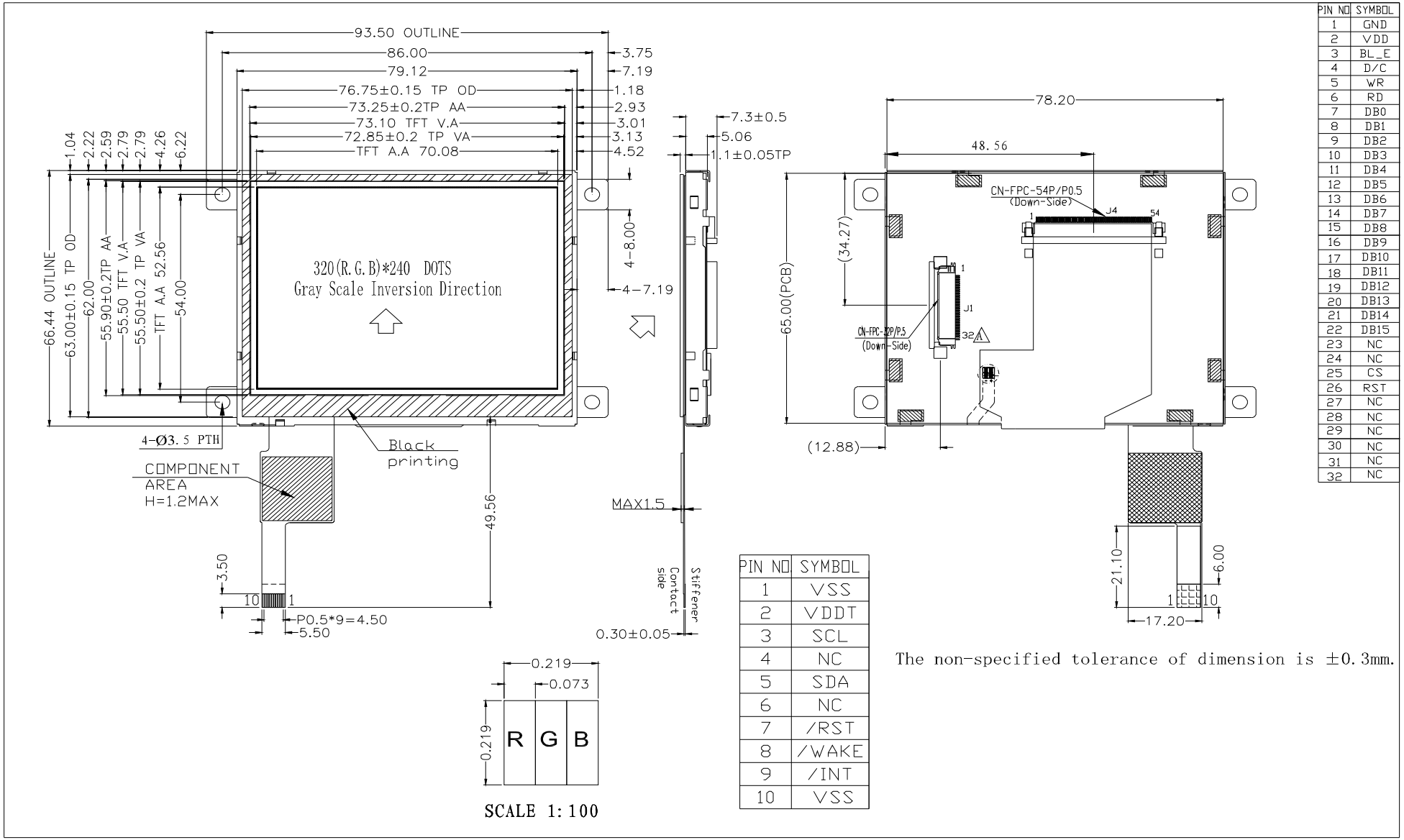
Touch Sreen



PIN NO.	SYMBOL
1	VSS
2	VDDT
3	SCL
4	NC
5	SDA
6	NC
7	/RST
8	/WAKE
9	/INT
10	VSS

The non-specified tolerance of dimension is ±0.2mm.

Contour Drawing



PIN NO	SYMBOL
1	GND
2	VDD
3	BL_E
4	D/C
5	WR
6	RD
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	DB8
16	DB9
17	DB10
18	DB11
19	DB12
20	DB13
21	DB14
22	DB15
23	NC
24	NC
25	CS
26	RST
27	NC
28	NC
29	NC
30	NC
31	NC
32	NC

PIN NO	SYMBOL
1	VSS
2	VDDT
3	SCL
4	NC
5	SDA
6	NC
7	/RST
8	/WAKE
9	/INT
10	VSS

The non-specified tolerance of dimension is ±0.3mm.