Next Vision Display
Brighten The Future

NEXT VISION DISPLAY

SPECIFICATION

CUSTOMER : _____

MODULE NO.: NT028-C001PT

Version	
Engineer	
Date	

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Customer:
Approved by

NEXT VISION DISPLAY CO., LTD.

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1. SPECIFICATIONS

1.1 Features

Main LCD panel

Item	Standard Value
Display Type	240(R、G、B) * 320 Dots
LCD Type	Normally white , Transmissive type
Screen size(inch)	2.8 inch
Viewing Direction	12 O'clock
Color configuration	RGB-Strip
Interface	8/16-bit 80-system I/F
Other(controller/driver IC)	Sitronix: ST7789VI
ROHS	THIS PRODUCT CONFORMS THE ROHS OF PTC

1.2 Mechanical Specifications

Item	Standard Value	Unit
Outline Dimension	55.8(W) * 75.0 (L) * 4.25 (H)max	mm

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LCD panel

Item	Standard Value	Unit
Active Area	43.2 (W) * 57.6 (L)	mm

Touch panel

Item	Standard Value	Unit
View Area	44.2 (W) * 58.6 (L)	mm
Active Area	45.2 (W) * 59.6 (L)	mm

Absolute Maximum Ratings

Module

Item	Symbol	Condition	Min.	Max.	Unit
System Power Supply Voltage	VCC	-	-0.3	+4.6	V
	VGH ~ VGL	-	-0.3	+30	V
Input Voltage	VIN	-	-0.3	VCC+0.5	V
Operating Temperature	T_{OP}	-	-20	+70	°C
Storage Temperature	T_{ST}	-	-30	+80	°C
Storage Humidity	H_D	Ta ≦ 40 °C	20	90	%RH

1.4 DC Electrical Characteristics

Module GND = 0V, Ta = 25°C

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Power Supply Voltage1	VCC	-	2.4	2.8	3.6	V
Input High Voltage	V_{IH}	-	0.7 VCC	-	VCC	V
Input Low Voltage	V_{IL}	-	GND	-	0.3 VCC	V
Output High Voltage	V_{OH}	I_{OH}=-0.1mA	0.8*VCC	-	VCC	V
Output Low Voltage	V_{OL}	I_{OL}=0.1mA	GND	-	0.2*VCC	V
Supply Current	ICC	VCC = 2.8V	-	8	12	mA

Note1:Maximum current display

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2.2 Interface Pin Description

Pin No.	Symbol	Function
1	LEDK1-4	Power supply for LED Backlight Cathode input
2	LEDA	Power supply for LED Backlight Anode input
3	GND	Signal ground.(0V)
4	IM0	MCU interface mode select , When IM0=0:16bit , When IM0=1: 8bit
5	RESET	Reset input pin for TFT LCD. When RESET is “L”, initialization is executed.
6	CS	Chip select signal , Active at ”L”
7	RS	When RS = 0: Command. When RS = 1: Display data.
8	WR	Write signal input，active at Low.
9	RD	Read signal input，active at Low.
10	GND	Signal ground.(0V)
11	DB1	Bi-directional data bus
12	DB2	
13	DB3	
14	DB4	
15	DB5	
16	DB6	
17	DB7	
18	DB8	
19	DB10	
20	DB11	
21	DB12	
22	DB13	
23	DB14	
24	DB15	
25	DB16	
26	DB17	

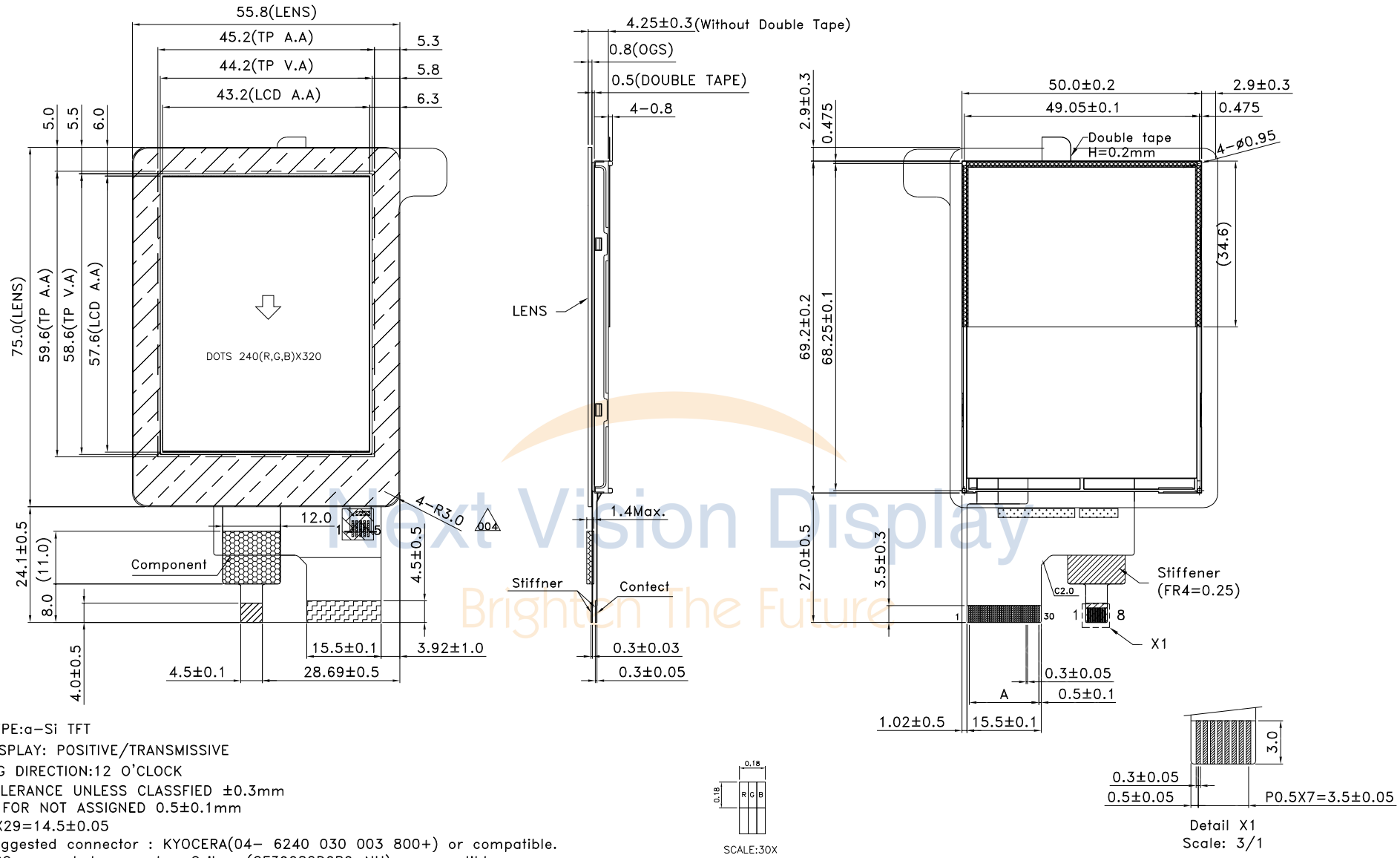
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Pin No.	Symbol	Function
27	GND	Signal ground.(0V)
28	2.8 /VCC	Power supply for the internal logic circuit.
29	2.8 /VCC	Power supply for the internal logic circuit.
30	2.8 /VCC	Power supply for the internal logic circuit.

Touch Panel

Pin No.	Symbol	Function
1	Shield	ESD Ground.
2	SCL	I2C serial clock.
3	SDA	I2C serial data.
4	VDD	Power supply.
5	RESET	System reset signal input, active low.
6	INT	Indicate coordinate data ready.
7	IOVDD	I/O power supply.
8	NC	No connection.

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NOTES:

1.)LCD TYPE:a-Si TFT
2.)LCD DISPLAY: POSITIVE/TRANSMISSIVE
3.)VIEWING DIRECTION:12 O'CLOCK
4.)THE TOLERANCE UNLESS CLASSFIED ±0.3mm
THE R FOR NOT ASSIGNED 0.5±0.1mm
5.)A:P0.5X29=14.5±0.05
8.)FPC suggested connector : KYOCERA(04- 6240 030 003 800+) or compatible.
9.)T/P FPC suggested connector: CviLux (CF39082D0R0-NH)or compatible.

REV	REV BY	REVISER	DATE
007			
006			
005			
004	MODIFY DRAWING	Crystal	2019/05/15
003	MODIFY DRAWING	Crystal	2019/03/05
002	MODIFY DRAWING	Crystal	2019/01/20
001			

PART NO: NT028-C001PT
DRAWING NAME :
TITLE:
Design
Check
Approve
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(3)		Surface	
Unit	MM	Material	
Scale	FIT	Thickness	
Page	1/1	Quantity	

Precision / Tolerance / Length(Min) (mm)	Precision
1 ~ 4	-
4 ~ 16	-
16 ~ 63	-
63 ~ 250	-
250 ~ 1000	-