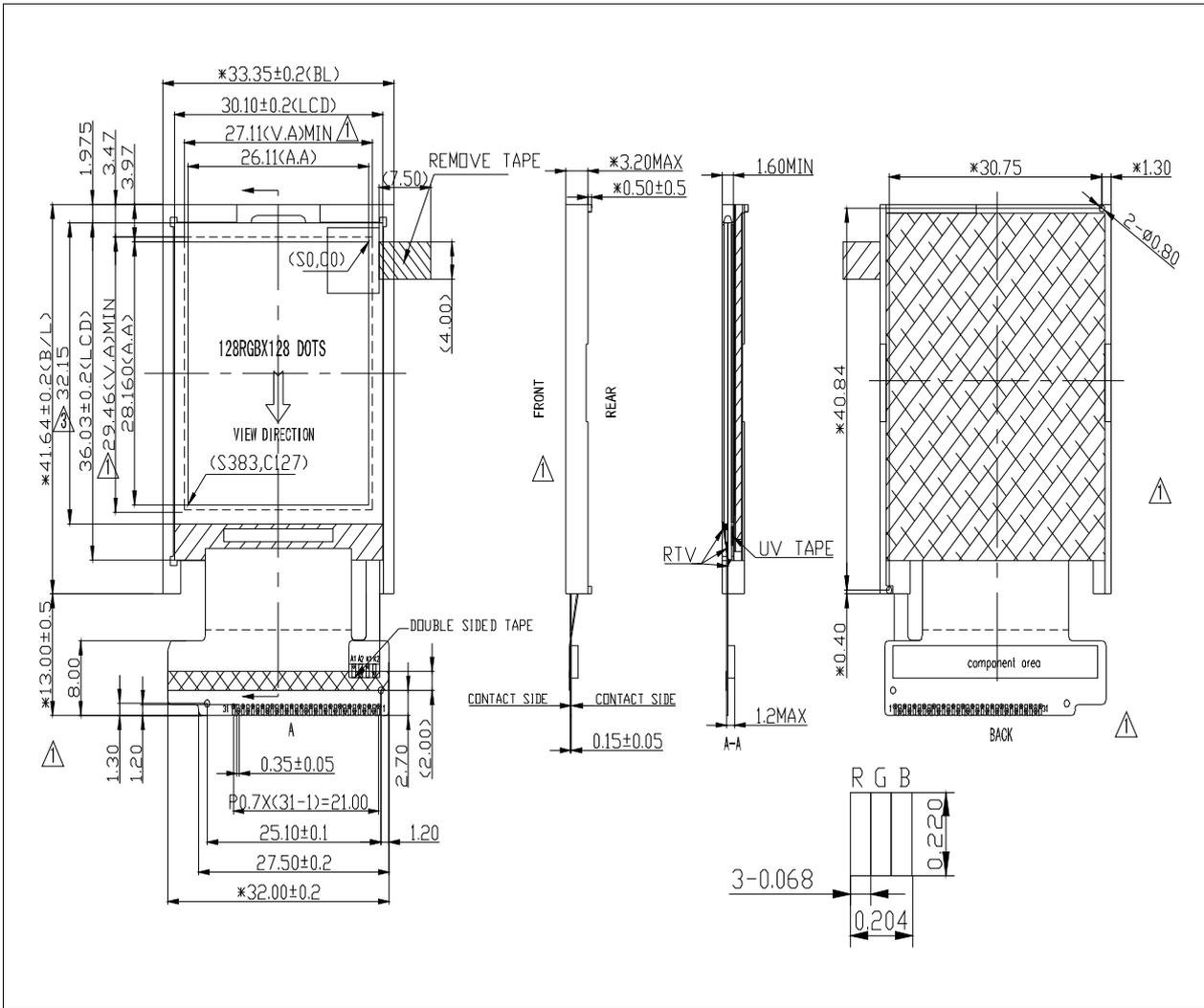


1.0 DIMENSIONAL DRAWING



Pins Description

Pin No.	Symbol	Description
1	GND	Ground
2	VDD	Power Supply Pin
3	IM1	L:6800 MPU Interface H:8080 MPU Interface
4-5	NC	Dummy
6	/CS	L:Chip Selected H:Chip Unselected
7	/RES	Reset: L: Enable; H: Disable
8	RS	L: Instruction; H: Data;
9	RW/WR	6800-series: L:Write; H:Read 8080-series: L:Write
10	E/RD	6800-series: Write/Read control pin; 8080-series: L:Read
11-18	DB1-DB8	16 Bits Data Bus
19-26	DB10-DB17	
27	LEDA	Led Anode
28	LEDK	Led Cathode
29-31	NC	Dummy

Reference documentation: ST7712 DATASHEET

LCD PIN	IC PIN
CO-C127	G1-G128
SO-S383	SEG0-SEG383

Internal Connection

Pin Name	Connection
MS3, MS2, MS0	MS[3:0]=000B:16-bits Parallel Interface

NOTE:

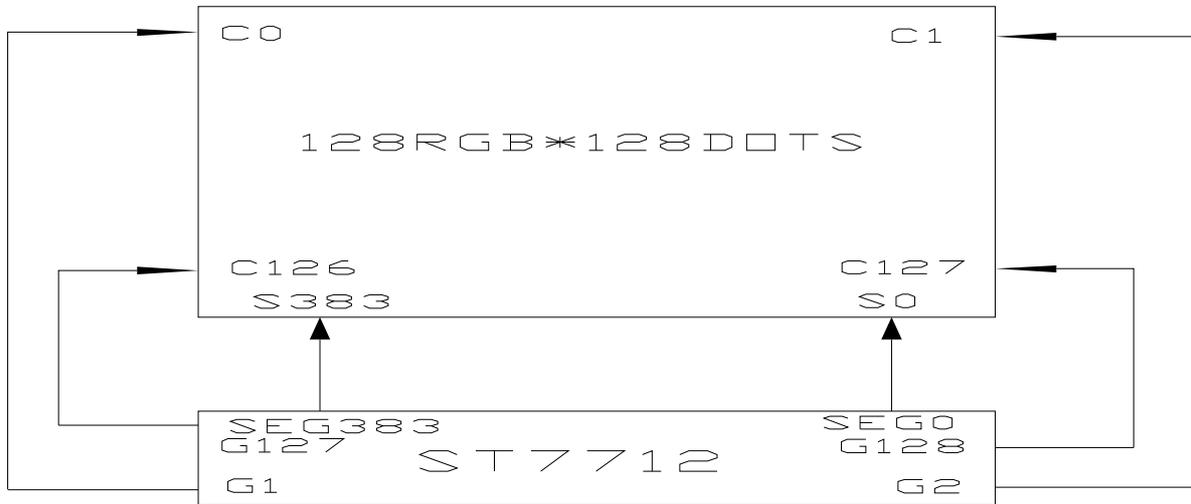
- DISPLAY TYPE: 65K COLORS-TFT-NEGATIVE-TRANSMISSIVE
- VIEWING DIR.: 12:00
- DRIVE METHOD:1/128DUTY,VDD=2.8±0.2V
- OP. TEMP.: -20°C~70°C
- ST. TEMP.: -30°C~80°C
- DRIVE IC: ST7712(COG,SITRONIX)
- BACKLIGHT-LED COLOR-WHITE, If=30mA, Vf=3.3±0.2V, LUMINANCE>2000CD/m²

	MIN	TYP	MAX
X	0.27	0.30	0.33
Y	0.28	0.31	0.34

8.ROHS

9.LCD DRAWING NO.:JY06A95

2.0 BLOCK DIAGRAM



3.0 MECHANICAL SPECIFICATIONS

ITEM	CONTENT	UNIT
DOTS NUMBER	128(RGB)x128	Dots
MODULE DIMENSION	33.35(w)*54.64(h)*3.2(t) Max	mm
ACTIVE AREA	26.11(w)*28.16(h)	mm
DOT SIZE	0.204(w)*0.220(h)	mm

4.0 ELECTRO-OPTICAL CHARACTERISTICS

(light source: C light, using CPT TN LC+ Normal Polarizer, reference only) Ta=25°C

ITEM		SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	
Contrast Ratio		CR	*1)		200	-	--	
Response Time		Tr	*3)	-	10	30	ms	
		Tf		-	30	40	ms	
Viewing Angle	Vertical	θ *2)	CR ≥ 10	30	40	-	°	
				10	20	-		
	Horizontal	ϕ *2)		30	45	-	°	
				30	45	-		
Color Filter Chromaticity	White	x y	$\theta = \phi = 0^\circ$	0.301	0.321	0.341	--	
				0.323	0.343	0.363		
	Red	x y	$\theta = \phi = 0^\circ$	0.615	0.635	0.655	--	
				0.326	0.346	0.366		
	Green	x y	$\theta = \phi = 0^\circ$	0.281	0.301	0.321	--	
				0.566	0.586	0.606		
	Blue	x y	$\theta = \phi = 0^\circ$	0.115	0.135	0.155	--	
				0.100	0.120	0.140		
	Gamut					61.8%		

*1) Definition of contrast ratio :

Measure contrast ratio on the below 5 points and take the average value.

Contrast ratio is calculated with the following formula :

Contrast Ratio (CR)= (White)Luminance of ON ÷ (Black)Luminance of OFF

5.0 ELECTRONIC CHARACTERISTICS

ITEM	SYMBOL	STANDARD VALUE		UNIT
		MIN	MAX	
Logic supply voltage	V _{DD1}	-0.3	+4.6	V
Operating Temperature	Top	-20	+70	°C
Storage Temperature	Tst	-30	+80	°C

6.0 PINS DESCRIPTION

Pin No.	Symbol	Description
1	GND	Ground
2	VDD	Power Supply Pin
3	IM1	L:6800 MPU Interface H:8080 MPU Interface
4-5	NC	Dummy
6	/CS	L:Chip Selected H:Chip Unselected
7	/RES	Reset: L: Enable; H: Disable
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		8080-series: L:Write
10	E/RD	6800-series: Write/Read control pin;
		8080-series: L:Read
11-18	DB1-DB8	16 Bits Data Bus
19-26	DB10-DB17	
27	LEDA	Led Anode
28	LEDK	Led Cathode
29-31	NC	Dummy

Remark

1. LCD option: STN, FSTN .
2. Customized module.
3. Backlight option: EL backlight feature, other specs not available on catalog is under request.