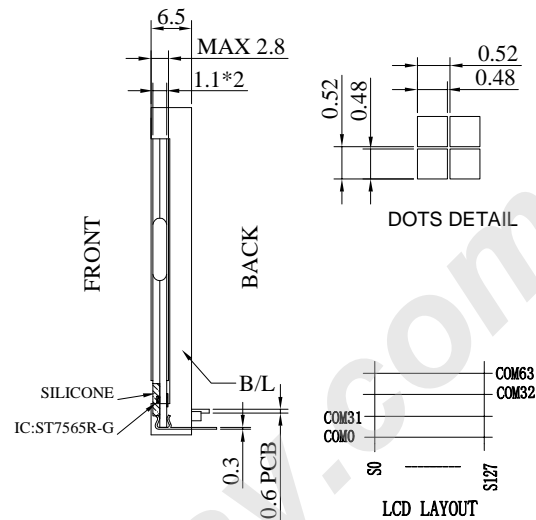
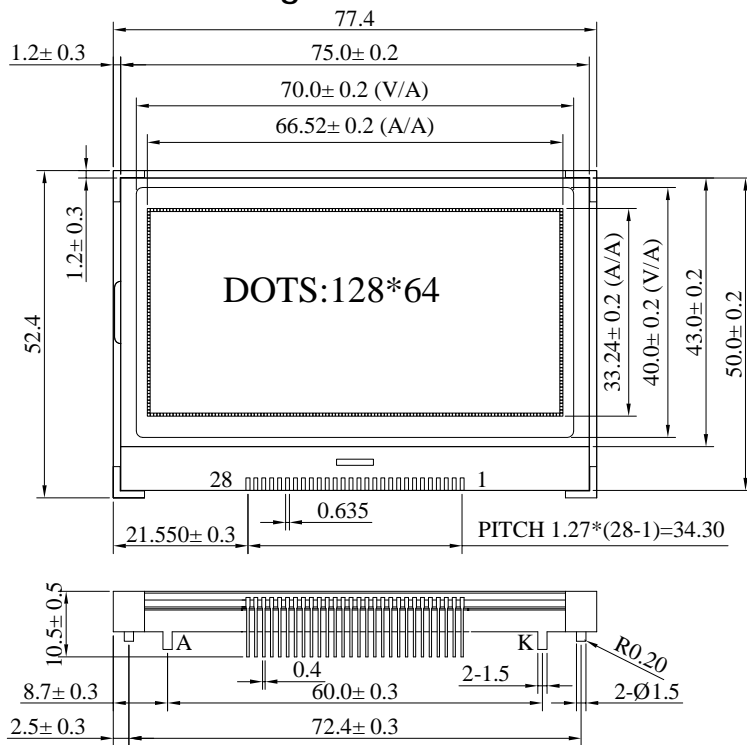


Dimension Drawing



TOLERANCES UNLESS OTHERWISE STATED
X.X ±0.20 X.XX ±0.10 UNIT: mm

Feature:

1. 128 x 64 dots graphic display
2. Built-in controller ST7565R
3. +3.3V power supply
4. 1/64 Duty cycle
5. STN or FSTN Mode
6. Match all kind colors of LED back light
7. ROHS compliant

Mechanical Data

Item	Standard	Unit
Module dimension	77.4 x 52.4	mm
Viewing area	70.0 x 40.0	mm
Dots pitch	0.48 x 0.48	mm
Dots size	0.52 x 0.52	mm

Interface Pin Connections

PIN NO.	Symbol	PIN NO.	Symbol
1	CS1B	15	VSS
2	RESETB	16	VOUT
3	RS	17	CAP3+
4	WR(R/W)	18	CAP1-
5	RD(E)	19	CAP1+
6	DB0	20	CAP2+
7	DB1	21	CAP2-
8	DB2	22	V4
9	DB3	23	V3
10	DB4	24	V2
11	DB5	25	V1
12	DB6(SCL)	26	V0
13	DB7(SI)	27	C86
14	VDD	28	PSB

Absolute Maximum Rating

Item	Symbol	Standard			Unit
		Min	Typ	Max	
Power supply	VDD-VSS	0.3	---	5.0	V
Input voltage	Vin	0.3	---	18.0	

Electronical Characteristics

Item	Symbol	Condition	Standard			Unit
			Min	Typ	Max	
Input voltage	VDD	+3.0V	1.8	3.0	3.3	V
Supply current	I _{DD}	VDD=3V	---	135	203	uA
Recommended LCD driving voltage for normal temp version module	V5-VDD (VDD=3V)	-20°C	9.3	---	---	V
		0°C	9.0	9.3	---	
		25°C	8.7	9.0	9.3	
		50°C	---	8.7	9.0	
LED forward voltage	V _F	25°C	---	3.1	3.3	V
LED forward current	I _F	25°C Edge	---	60	80	mA