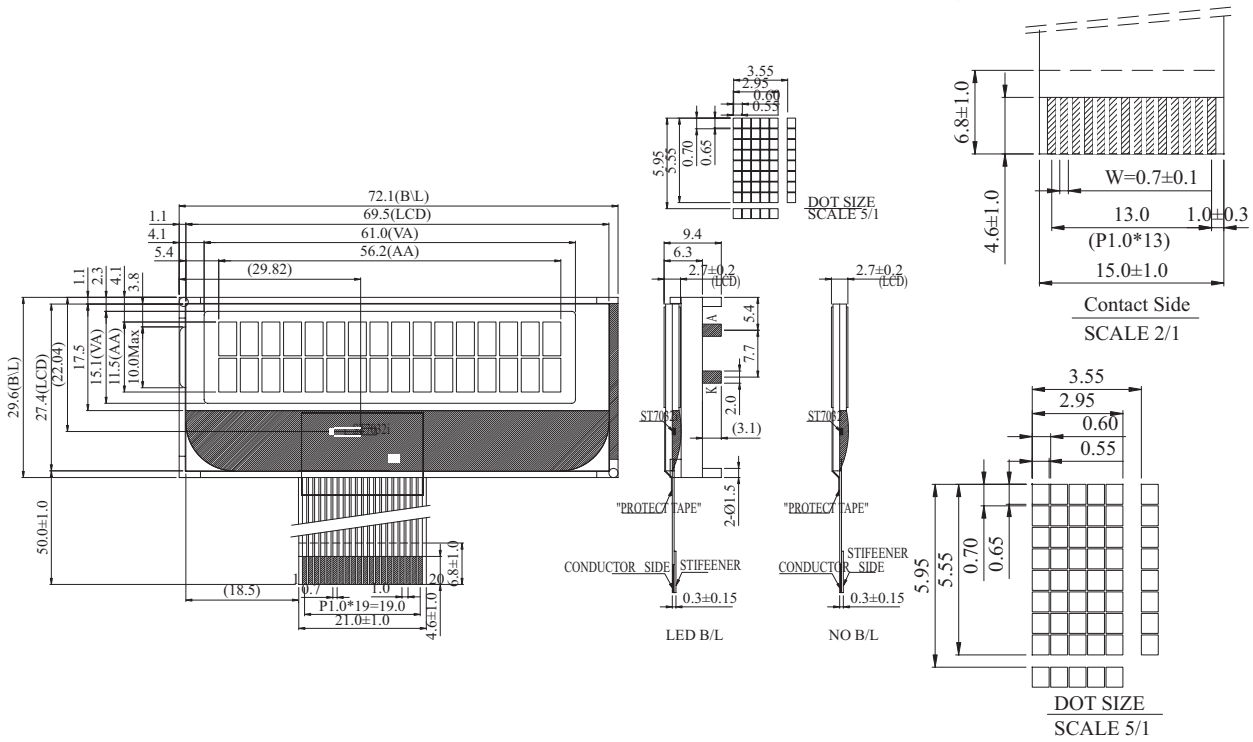
Dimension drawing



Feature

1. Built-in controller (ST7032)
2. 1/16 duty ,1/5 bias
3. +5V power supply

Pin No.	Symbol	Description
1	RS	Select registers. 0: Instruction register (for write) Busy flag & address counter (for read) 1: Data register (for write and read)
2	R/W	Select read or write (In parallel mode). 0: Write 1: Read
3	E	Starts data read/write. ("E" must connect to "VDD" when serial interface is selected.)
4	DB0	Data bus line
5	DB1	Data bus line
6	DB2	Data bus line
7	DB3	Data bus line
8	DB4	Data bus line
9	DB5	Data bus line
10	DB6/SCL	Data bus line (In I2C interface DB6 (SCL) is clock input. SDA and SCL must connect to I2C bus (I2C bus is to connect a resister between SDA/SCL and the power of I2C bus).
11	DB7/SDA	Data bus line (In I2C interface DB7 (SDA) is input data. SDA and SCL must connect to I2C bus (I2C bus is to connect a resister between SDA/SCL and the power of I2C bus).
12	V_{SS}	Ground
13	V_{DD}	Supply Voltage for logic
14	Vout	Operating voltage for LCD
15	PSB	Interface selection 0:serial mode ("E" must connect to "VDD" when serial mode is selected.) 1:parallel mode(4/8 bit) In I2C interface PSB must connect to VDD
16	PSI2B	PSB / PSB / Interface 0 / 0 / No use 0 / 1 / S14 1 / 0 / S12(1^2C) 1 / 1 / Parallel 68
17	CAP1P	For voltage booster circuit(VDD-VSS) External capacitor about 0.1u~4.7uf
18	CAP1N	
19	NC	No connection
20	NC	No connection

Mechanical Data

Item	Standard Value	Unit
Module Dimension	72.1x29.6x9.4	mm
Viewing Area	61.0x15.1	mm
Mounting hote	65.1x22.6	mm
Dot Size	2.95x5.55	mm

Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	-0.3	---	6.0	V
Input Voltage	VI	---	---	---	V

Note: VSS=0 Volt , VDD=5.0 Volt .

Electronical Characteristics

Item	Symbol	Condition	Standard Value			Unit
			min.	typ.	max.	
Input Voltage	VDD		4.75	5.0	5.25	V
Supply Current	IDD	VDD=5V	0.5	0.7	1.0	mA
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-VO	-20ºC	---	---	---	V
		0ºC	---	---	---	
		25ºC	4.1	4.5	4.8-	
		50ºC	---	---	---	
		70ºC	---	---	---	
LED Forward Voltage	VF	25ºC	3.4	3.5	3.6	V
LED Forward Current	IF	25ºC	---	16	---	V