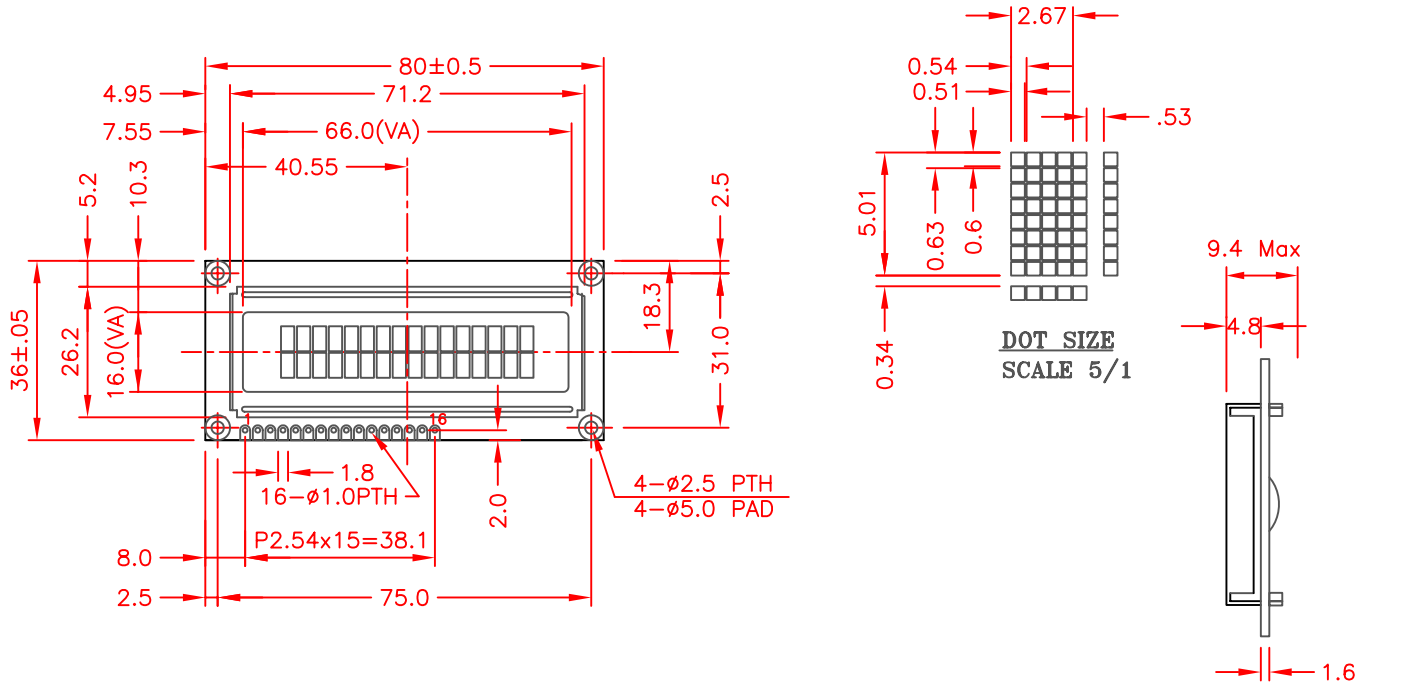

Feature

1. PLED 16 words. 2 Lines
2. Built-in controller (compatable with HD44780)
3. Lower power consumption
4. High contrast ratio and wide viewing angle
5. Compatable with LCD 16x2 type

Pin Assignment

Pin	Symbol	Function
1	Vss	GND
2	Vdd	Power supply
3	Vo	Contrast Adjustment
4	RS	H/L Register select signal
5	R/$\overline{W}$	H/L Read / Write signal
6	E	H→L Enable signal
7	DB0	Data bus line
8	DB1	Data bus line
9	DB2	Data bus line
10	DB3	Data bus line
11	DB4	Data bus line
12	DB5	Data bus line
13	DB6	Data bus line
14	DB7	Data bus line
15	NC	No Connection
16	NC	No Connection

Mechanical Data

Item	Standard Value	Unit
Module Dimension	80 x 36 x 9.4	mm
Viewing Area	66 x 16	mm
Mounting hole	75 x 31	mm
Character Size	2.67 x 5.01	mm

Absolute Maximum Rating

Parameter	Symbol	Standard Value			Unit
		min.	typ.	max.	
Supply Voltage for Logic	VDD	4.5	--	5.5	V
Operating temperature	Topr	-20	--	50	°C
Storage temperature	Tatg	30	--	70	°C
Brightness control voltage	Vbt	2	3	5	V
Soldering temperature	Tsolder	260°C for S seconds			
Moduid power consumtion @Vbt-3V (Note 1)	Pd	50	63	113	mW
Power saving mode@Vbt-2.5V (Note 2)	Ps	38	50	63	mW

Item	Operating		Storage	
	min.	max.	min.	max.
Ambient temperature	20°C	50°C	30°C	70°C
Humidity	45°C 85%RH		45°C 85%RH	
Corrosive gas	Not acceptable		Not acceptable	

Electronical Characteristics

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Supply Supply Voltage	VDD		4.5	--	5.5	V
Brightness control voltage	VBT		2	3	5	V
Power supply current	Icc	VDD-5V(Logic only)	--	0.35	0.6	mA
High level input voltage	nh		0.7VDD	--	VDD	V
Low level input voltage	Vil		-0.3	--	0.55	V
Leakage current	Ii		-1	--	1	mA

Display Character Address Code

Display position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DD RAM Address	00	01														0F
DD RAM Address	40	41														4F