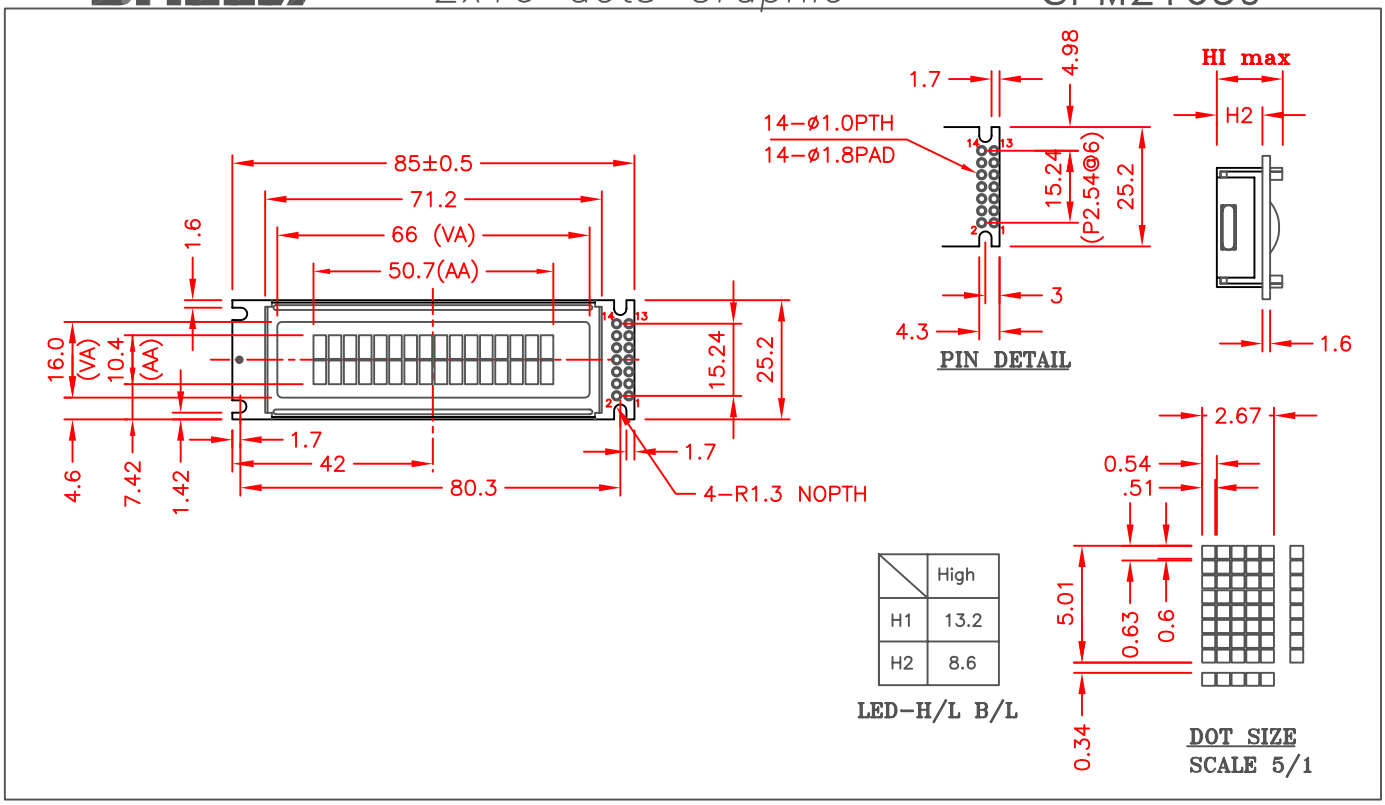
SHELLY 2x16 dots Graphic SPM21639



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	DB7	Data bus line
2	DB6	Data bus line
3	DB5	Data bus line
4	DB4	Data bus line
5	DB3	Data bus line
6	DB2	Data bus line
7	DB1	Data bus line
8	DB0	Data bus line
9	E	H→L Enable signal
10	R/W	H/L Read/Write signal
11	RS	H/L Register select signal
12	VO	Contrast Adjustment
13	Vss	GND
14	Vvdd	Power supply (+5V)

Mechanical Data

Item	Standard Value	Unit
Module Dimension	85 x 25.2 x 13.2	mm
Viewing Area	66. x 16	mm
Mounting hole	80.3 x 22	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

17171 Murphy Ave. Irvine, CA 92614-5915 Tel: 949-417-8070 Fax: 949-417-8075 Web site: www.shellyinc.com