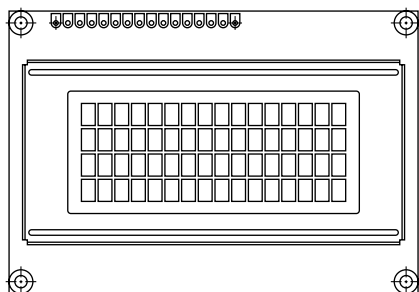


16 x 4 Character LCD



FEATURES

- Type: Character
- Display format: 16 x 4 characters
- Built-in controller: KS 0066 (or equivalent)
- Duty cycle: 1/16
- 5 x 8 dots includes cursor
- + 5 V power supply (also available for + 3 V)
- LED can be driven by pin 1, pin 2, pin 15, pin 16 or A and K
- N.V. optional for 3 V power supply
- Compliant to RoHS directive 2002/95/EC


RoHS
COMPLIANT

MECHANICAL DATA

ITEM	STANDARD VALUE	UNIT
Module Dimension	87.0 x 60.0	mm
Viewing Area	62.0 x 26.0	
Dot Size	0.55 x 0.55	
Dot Pitch	0.60 x 0.60	
Mounting Hole	82.0 x 55.0	
Character Size	2.95 x 4.75	

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	V_{DD} to V_{SS}	- 0.3	-	7.0	V
Input Voltage	V_I	- 0.3	-	V_{DD}	

Note

- $V_{SS} = 0$ V, $V_{DD} = 5.0$ V

ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
Input Voltage	V_{DD}	$V_{DD} = +5$ V	4.7	5.0	5.3	V
		$V_{DD} = +3$ V	2.7	3.0	5.3	V
Supply Current	I_{DD}	$V_{DD} = +5$ V	-	1.0	1.2	mA
Recommended LC Driving Voltage for Normal Temperature Version Module	V_{DD} to V_0	- 20 °C	5.0	5.1	5.7	V
		0 °C	4.6	4.8	5.2	
		25 °C	4.1	4.5	4.7	
		50 °C	3.9	4.2	4.5	
		70 °C	3.7	3.9	4.3	
LED Forward Voltage	V_F	25 °C	-	4.2	4.6	V
LED Forward Current	I_F	25 °C	-	220	440	mA
EL Power Supply Current	I_{EL}	$V_{EL} = 110$ V _{AC} , 400 Hz	-	-	5.0	mA

OPTIONS

PROCESS COLOR						BACKLIGHT			
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL
x	x	x	x			x	x	x	

For detailed information, please see the "Product Numbering System" document.

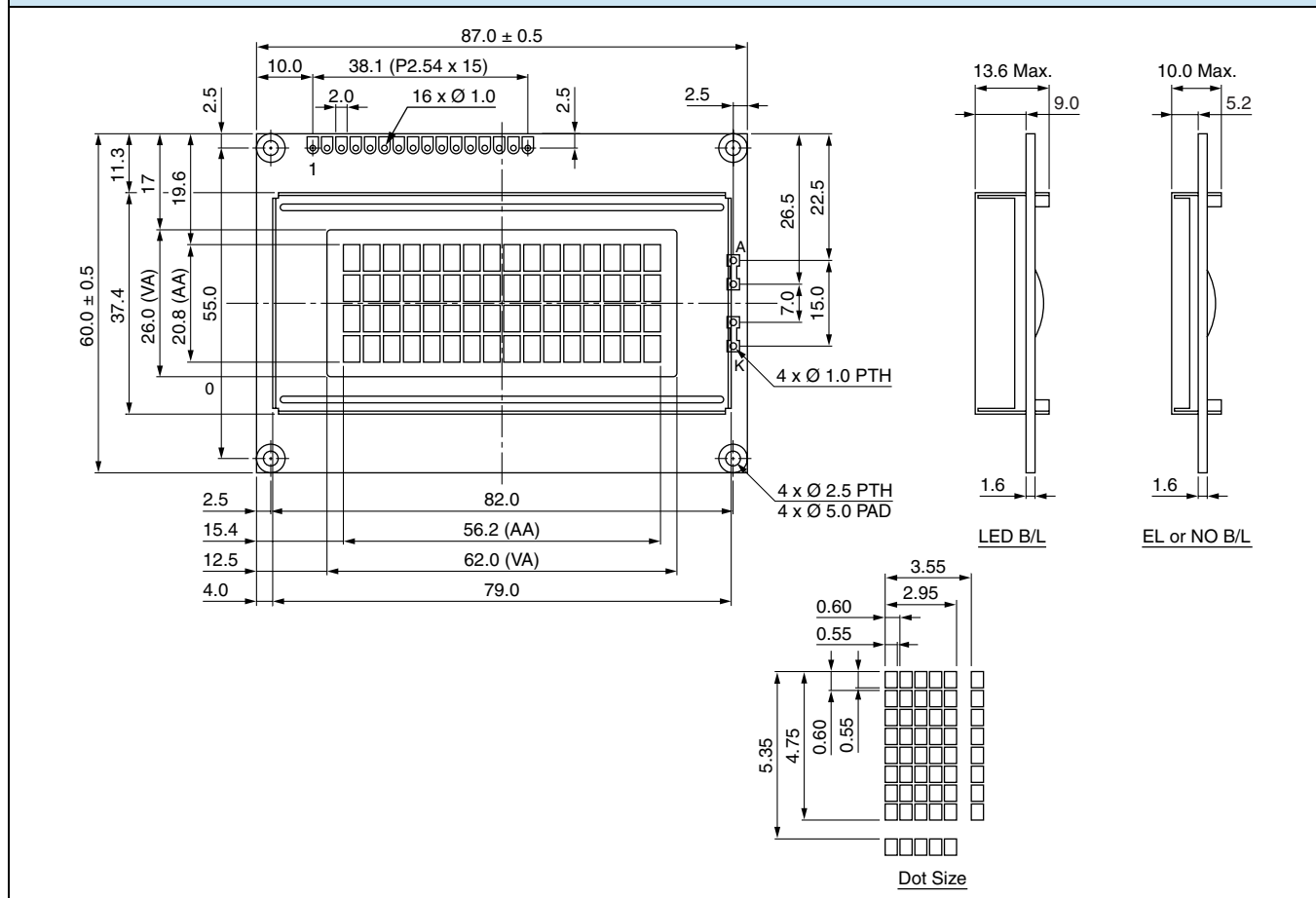
DISPLAY CHARACTER ADDRESS CODE

Display Position															
DD RAM Address	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
DD RAM Address	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E
DD RAM Address	40	41	42	43	44	45	46	47	48	49	4A	4B	4C	4D	4E
DD RAM Address	10	11	12	13	14	15	16	17	18	19	1A	1B	1C	1D	1E
DD RAM Address	50	51	52	53	54	55	56	57	58	59	5A	5B	5C	5D	5E

INTERFACE PIN FUNCTION

PIN NO.	SYMBOL	FUNCTION
1	V_{SS}	Ground
2	V_{DD}	Power supply (+ 3 V or + 5 V)
3	V_0	Contrast adjustment
4	RS	H/L register select signal
5	R/W	H/L read/write signal
6	E	H → L enable signal
7	DB0	H/L data bus line
8	DB1	H/L data bus line
9	DB2	H/L data bus line
10	DB3	H/L data bus line
11	DB4	H/L data bus line
12	DB5	H/L data bus line
13	DB6	H/L data bus line
14	DB7	H/L data bus line
15	A/ V_{EE}	+ 4.2 V for LED (RA = 0 Ω)/negative voltage output
16	K	Power supply for B/L (0 V)

DIMENSIONS in millimeters





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