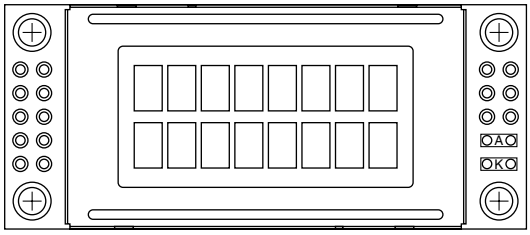
8 x 2 Character LCD



FEATURES

- Type: Character
- Display format: 8 x 2 characters
- Built-in controller: KS 0066 (or equivalent)
- Duty cycle: 1/16
- 5 x 8 dots includes cursor
- + 5 V power supply
- EL inverter built-in optional
- Compliant to RoHS directive 2002/95/EC

Pb-free
RoHS COMPLIANT

MECHANICAL DATA

ITEM	STANDARD VALUE	UNIT
Module Dimension	56.0 x 24.0	mm
Viewing Area	31.6 x 15.1	
Dot Size	0.56 x 0.57	
Dot Pitch	0.61 x 0.62	
Mounting Hole	50.0 x 18.0	
Character Size	4.91 x 3.0	

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	V_{DD} to V_{SS}	-	5.0	5.5	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	-	-	-	V
Supply Current	I_{DD}	V_{DD} = + 5 V	-	-	-	mA
Recommended LC Driving Voltage for Normal Temperature Version Module	V_{DD} to V_0	- 20 °C	-	-	5.5	V
		0 °C	-	-	4.8	
		25 °C	-	4.5	-	
		50 °C	4.2	-	-	
		70 °C	3.8	-	-	

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	

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

DISPLAY CHARACTER ADDRESS CODE

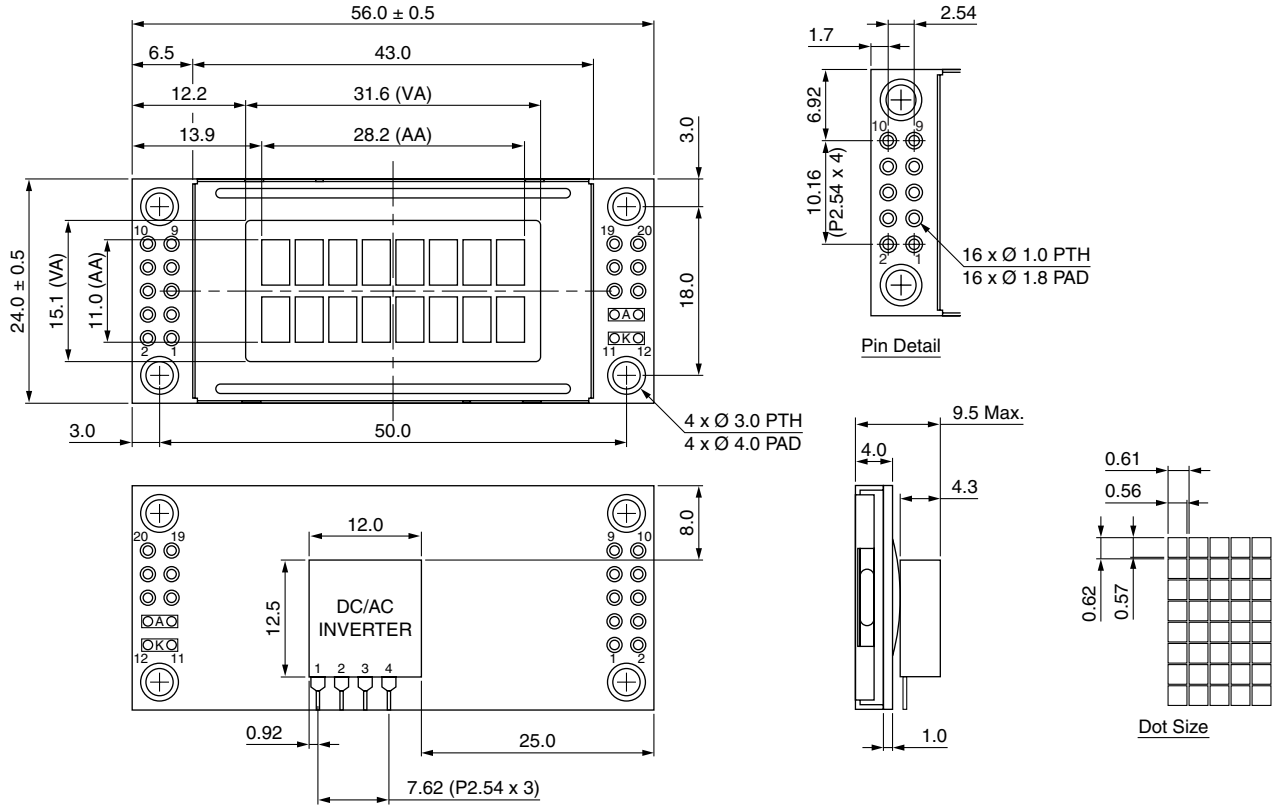
Display Position

	1	2	3	4	5	6	7	8
DD RAM Address	00	01	02	03	04	05	06	07
DD RAM Address	40	41	42	43	44	45	46	47

INTERFACE PIN FUNCTION

PIN NO.	SYMBOL	FUNCTION
1	V_{SS}	Ground
2	V_{DD}	Power supply for logic
3	V_0	Operating voltage LCD driving
4	RS	Register select signal
5	R/$\overline{W}$	H/L read/write signal
6	E	H → L enable signal
7	DB4	Data bus line
8	DB5	Data bus line
9	DB6	Data bus line
10	DB7	Data bus line
11	K	Power supply for B/L
12	K	Power supply for B/L
13	A	Power supply for B/L
14	A	Power supply for B/L
15	BLE	H: EL enable/L: EL disable
16	NC	No connection
17	DB0	Data bus line
18	DB1	Data bus line
19	DB2	Data bus line
20	DB3	Data bus line

DIMENSIONS in millimeters



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