

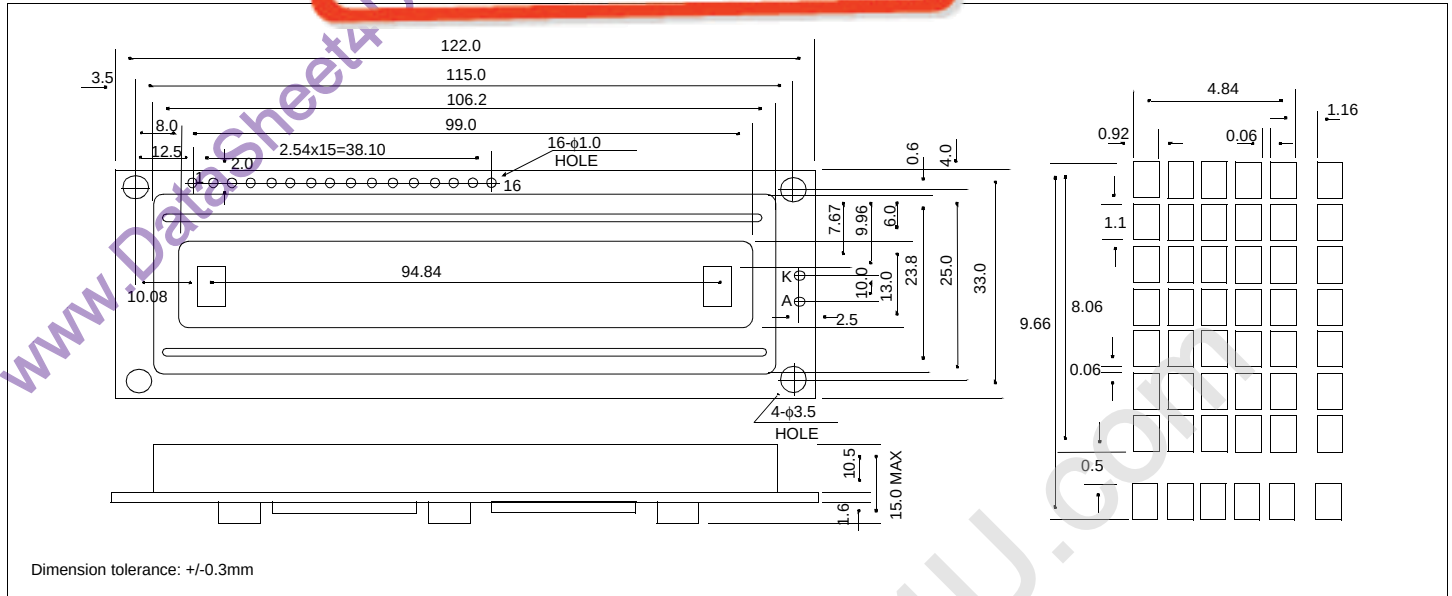
HDM16116L-7

Dimensional Drawing

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Http://www.lcdfriends.com

16 Character x 1 Line Large Character, LED Backlight



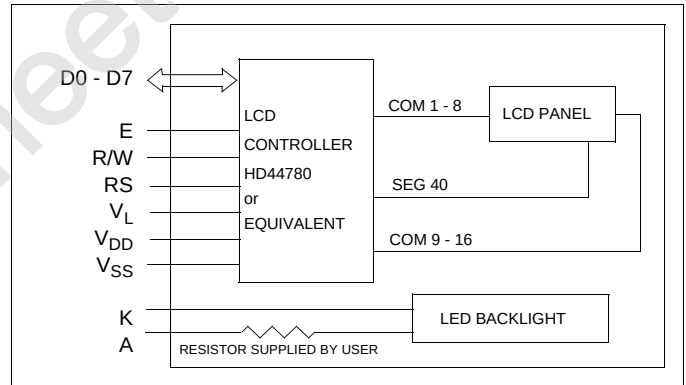
Features

Character Format5x7 Dots Large Character with Cursor
Backlight.....LED
Options.....Gray STN/Yellow STN, 12 o'Clock/6 o'Clock View
Normal/Extended Temperature
Normal/Negative Displays

Physical Data

Module Size.....122.0W x 33.0H x 15.0T mm
Viewing Area Size.....99.0W x 13.0H mm
Weight.....45g

Block Diagram



Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	$V_{DD}-V_{SS}$	0	7.0	V
SUPPLY VOLTAGE FOR LCD	$V_{DD}-V_L$	0	13.5	V
INPUT VOLTAGE	V_{IN}	V_{SS}	V_{DD}	V
OPERATING TEMPERATURE	T_{OP}	0	50	$^{\circ}\text{C}$
STORAGE TEMPERATURE	T_{STG}	-20	70	$^{\circ}\text{C}$

Electrical Characteristics (VDD=5.0 $\pm$ 0.25V 25 $^{\circ}\text{C}$)

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
INPUT HIGH VOLTAGE	V_{IH}	-	2.2	-	-	V
INPUT LOW VOLTAGE	V_{IL}	-	-	-	.06	V
OUTPUT HIGH VOLTAGE	V_{OH}	$I_{OH}=0.2\text{mA}$	2.4	-	-	V
OUTPUT LOW VOLTAGE	V_{OL}	$I_{OL}=1.2\text{mA}$	-	-	0.4	V
POWER SUPPLY CURRENT	I_{DD}	$V_{DD}=5.0\text{V}$	-	1.0	2.2	mA
DRIVE METHOD	1/16 Duty					

Pin Connections

PIN NO.	SYMBOL	LEVEL	FUNCTION	
1	V_{SS}	-	0V	Power Supply
2	V_{DD}	-	5V	
3	V_L	-	-	
4	RS	H/L	H: Data input L: Instruction data input	Data bus
5	R/W	H/L	H: Data read L: Data write	
6	E	H,H $\rightarrow$ L	Enable signal	
7	D0	H/L		
8	D1	H/L		
9	D2	H/L		
10	D3	H/L		
11	D4	H/L		
12	D5	H/L		
13	D6	H/L		
14	D7	H/L		
15	A		Anode connection for back light	
16	K		Cathode connection for back light	