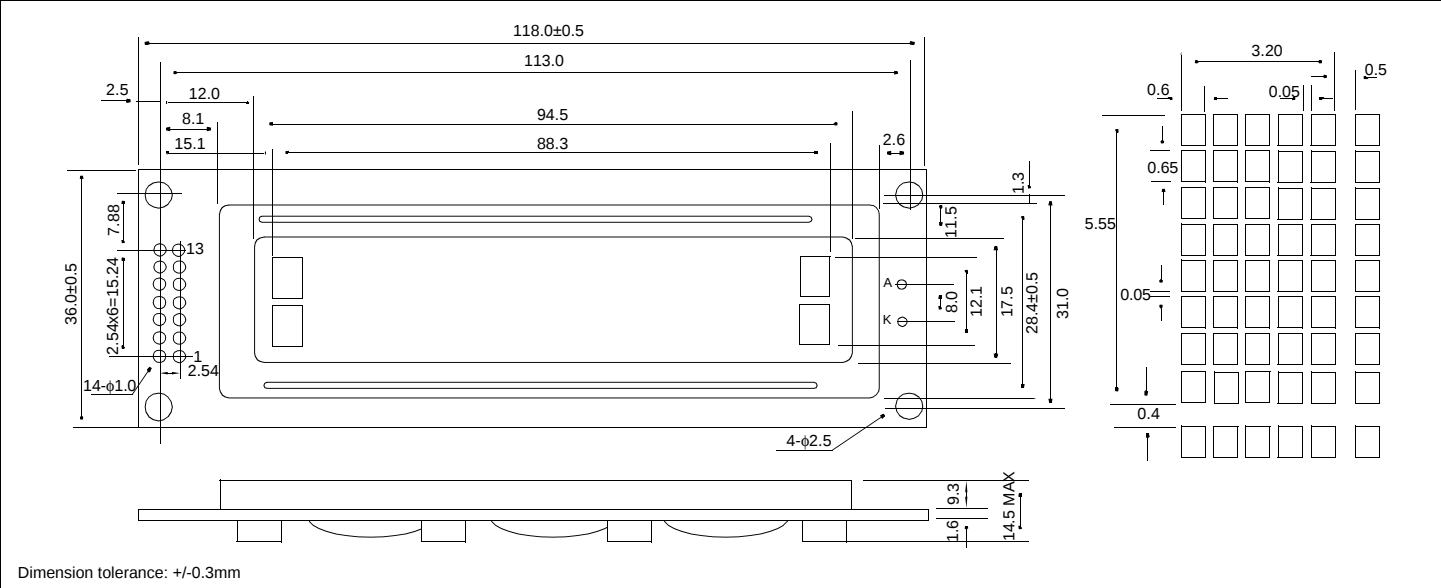


HDM24216L-2

Dimensional Drawing

24 Characters x 2 Lines LED Backlight



Features

Character Format 5x7 Dots 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.....118.0W x 36.0H x 14.5T mm
Viewing Area Size.....94.5W x 17.5H mm
Weight.....45g

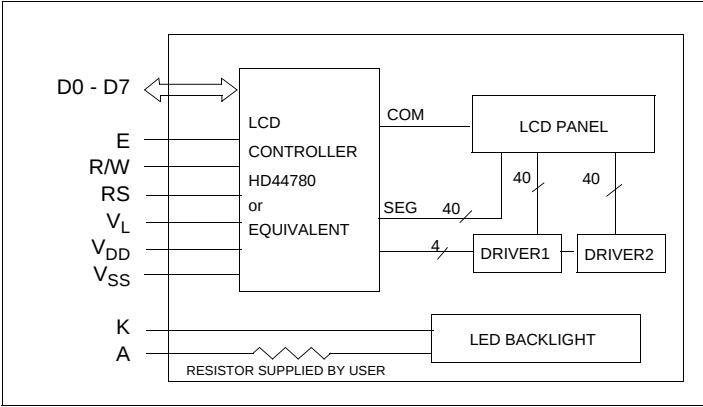
Absolute Maximum Ratings

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	°C
STORAGE TEMPERATURE	T _{STG}	-20	70	°C
LED FORWARD CURRENT	I _F	-	300	mA
LED REVERSE VOLTAGE	V _R	-	8	V
LED POWER CONSUMPTION	P _D	-	1350	mW

Electrical Characteristics (VDD=5.0±0.25V 25°C)

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
INPUT HIGH VOLTAGE	V _{IH}	-	2.2	-	-	V
INPUT LOW VOLTAGE	V _{IL}	-	-	-	0.6	V
OUTPUT HIGH VOLTAGE	V _{OH}	I _{OH} =0.2mA	2.4	-	-	V
OUTPUT LOW VOLTAGE	V _{OL}	I _{OL} =1.2mA	-	-	0.4	V
POWER SUPPLY CURRENT	I _{DD}	V _{DD} =5.0V	-	1.5	2.5	mA
POWER SUPPLY FOR LCD	V _{DD} -V _L	T _A =25°C	4.3	-	4.7	V
LED FORWARD VOLTAGE	V _F	I _F =130mA	3.9	4.1	4.5	V
BRIGHTNESS	L	I _F =130mA	30	45	-	NIT
DRIVE METHOD	1/16 Duty					

Block Diagram



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	
5	R/W	H/L	H: Data read L: Data write	
6	E	H,H→L	Enable signal	
7	D0	H/L	Data bus	
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		