HDM16216L-5

Dimensional Drawing

Dimension tolerance: +/-0.3mm   (T) = Thin version
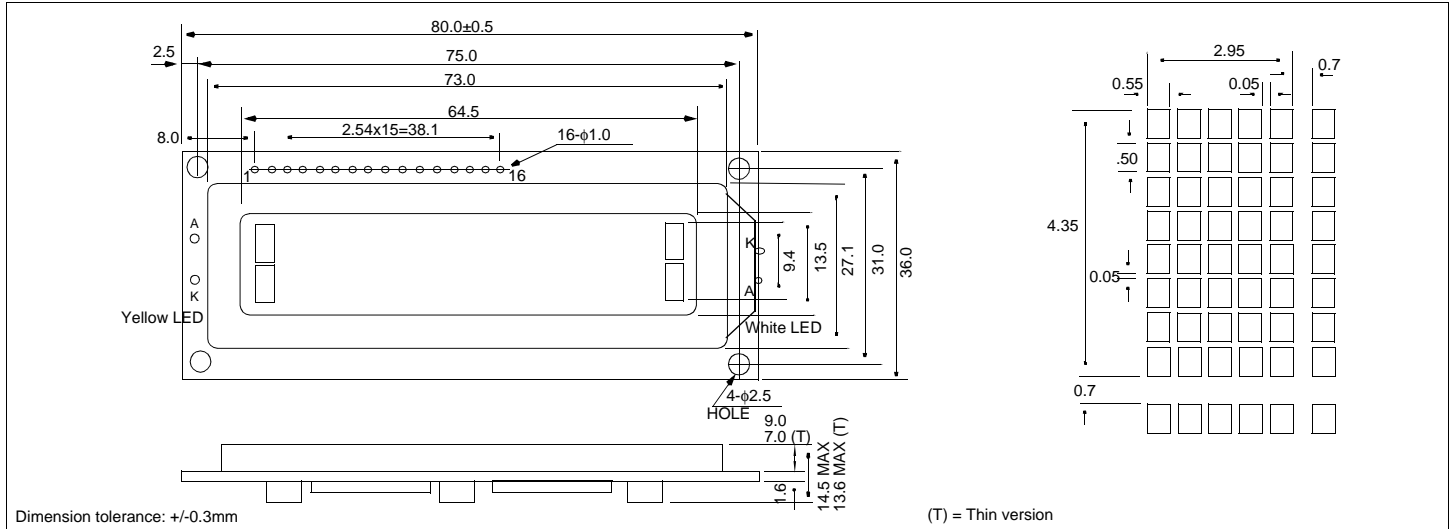
Features

Character Format .... 5x7 Dots with Cursor
Backlight... White or Yellow LED
Options....................................TN/Gray STN/Yellow STN, FSTN
12 o'Clock/6 o'Clock View
Normal/Extended Temperature
Normal/Negative Displays

Physical Data

Module Size ....80.0W x 36.0H x 14.5T mm
Thin version......................80.0W x 36.0H x 13.0T mm
Viewing Area Size...65.6W x 13.8H mm
Weight...35g

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
OPERATING TEMPERATURE	T_{OP}	0	50	°C
STORAGE TEMPERATURE	T_{STG}	-20	70	°C
LED FORWARD CURRENT (White)	I_F	-	25	mA
(Yellow)		-	120	
LED REVERSE VOLTAGE (White)	V_R	-	5	V
(Yellow)		-	8	
LED POWER CONSUMPTION (White)	P_D	-	80	mW
(Yellow)		-	540	

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

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
POWER SUPPLY CURRENT	I_{DD}	V_{DD}=5.0V	-	1.0	2.2	mA
POWER SUPPLY FOR LCD	V_{DD}-V_L	T_A=25°C	4.3	-	4.7	V
LED FORWARD Vtg (White)	V_F	I_F=20mA	3.0	3.3	3.6	V
(Yellow)		I_F=75mA	3.9	4.1	4.5	
BRIGHTNESS (White)	L	I_F=20mA	60	75	-	cd/m2
(Yellow)		I_F=75mA	30	50	-	
DRIVE METHOD	1/16 Duty					
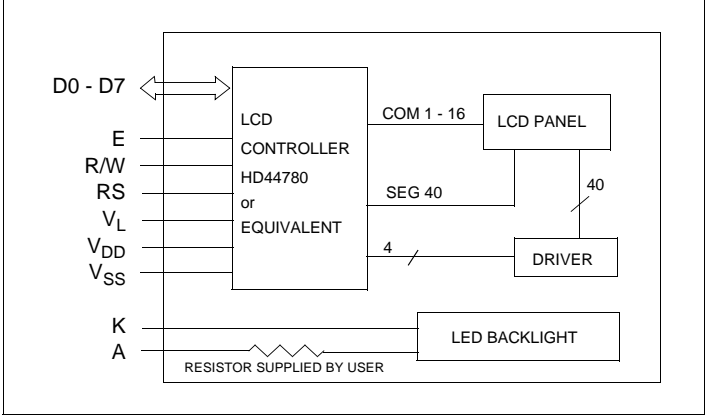
Pin Connections

PIN NO.	SYMBOL	LEVEL	FUNCTION	
1	V_{SS}	-	0V	
2	V_{DD}	-	5V	Power supply
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		
8	D1	H/L		
9	D2	H/L		
10	D3	H/L		
11	D4	H/L	Data bus	
12	D5	H/L		
13	D6	H/L		
14	D7	H/L		
15	A	-	Anode for LED backlight	
16	K	-	Cathode for LED backlight	