

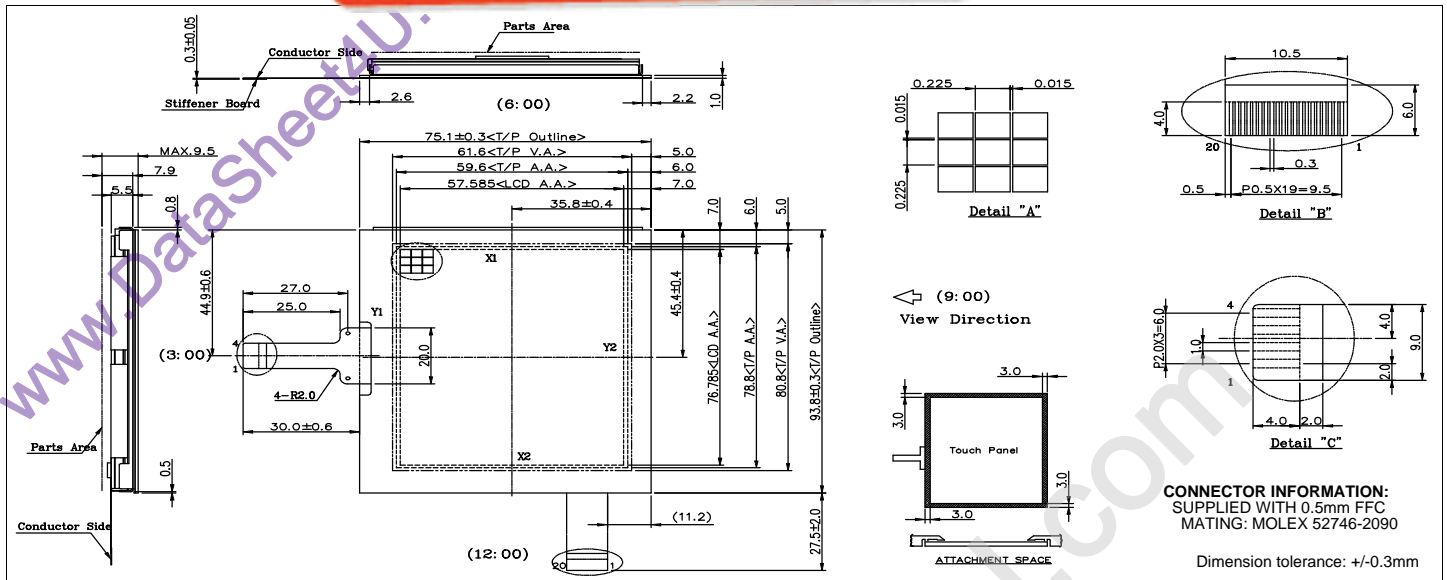
# HDM2432TSL-T

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Http://www.lcdfriends.com

## Dimensional Drawing

240 X 320 Dots Graphic (Portrait Mode) White LED Backlight



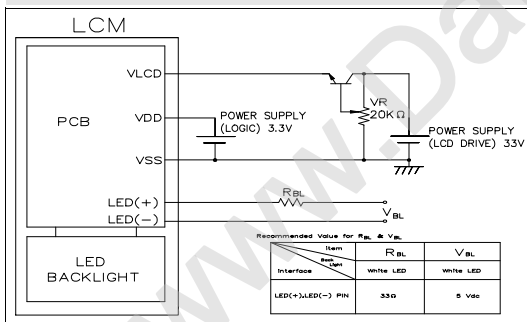
### Features

- Backlight.....White LED
- Options.....Black and White FSTN  
Extended Temperature  
Bottom Viewing
- Built-in Controller.....None

### Physical Data

- Module Size.....75.1W x 93.8H x 9.5T mm
- Viewing Area Size.....61.6W x 80.8H mm
- Dot Pitch.....0.24W x 0.24H mm
- Dot Size.....0.225W x 0.225H mm
- Weight.....73.4g

### Power Supply



### Electrical Characteristics (V<sub>DD</sub>=3.3±0.25V 25°C)

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
INPUT HIGH VOLTAGE	V <sub>IH</sub>	-	0.8 V <sub>DD</sub>	-	V <sub>DD</sub>	V
INPUT LOW VOLTAGE	V <sub>IL</sub>	-	0	-	0.2 V <sub>DD</sub>	V
SUPPLY VOLTAGE	V <sub>DD</sub>	-	3.0	3.3	3.6	V
	V <sub>EE</sub>	-	26.4	26.7	27.0	V
SUPPLY Current	I <sub>DD</sub>	V <sub>EE</sub> =26.7V FLM=70 Hz	-	0.1	0.2	mA
	I <sub>EE</sub>	-	-	2.9	4.4	mA
LED BACKLIGHT	I <sub>LED</sub>	V <sub>LED</sub> =5V	-	55	82	mA
BRIGHTNESS	L	I <sub>LED</sub> =55mA	-	8.3	-	NIT
DRIVE METHOD	1/320 DUTY					

### Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	V <sub>DD</sub> -V <sub>SS</sub>	-0.3	7.0	V
SUPPLY VOLTAGE FOR LCD	V <sub>DD</sub> -V <sub>EE</sub>	-0.3	30.0	V
INPUT VOLTAGE	V <sub>IN</sub>	-0.3	V <sub>DD</sub>	V
OPERATING TEMPERATURE	T <sub>OP</sub>	-20	70	°C
STORAGE TEMPERATURE	T <sub>STG</sub>	-30	80	°C

### Pin Connections

PIN NO.	SYMBOL	LEVEL	FUNCTION
<b>DATA CONNECTOR</b>			
1	V <sub>DD</sub>	3.3V	Power supply for logic
2	SGND	-	Shield Ground
3	V <sub>EE</sub>	-	Power supply for LCD
4	FLM	H/L	First Line Marker
5	DISP ENA	H/L	H = Display ON, L = Display OFF
6	M	H/L	AC signal
7	CL1	H/L	Data Latch clock
8	CL2	H/L	Data shift clock
9	V <sub>SS</sub>	0V	Ground
10	D0	H/L	Display data
11	D1	H/L	
12	D2	H/L	
13	D3	H/L	
14	V <sub>SS</sub>	0V	Ground
15	LED +	-	Anode for LED
16	LED-	-	Cathode for LED
17	N/C		No Connection
18	N/C		
19	N/C		
20	N/C		
<b>TOUCH PANEL CONNECTOR</b>			
1	Y2	-	Touch Panel Connections
2	X2	-	
3	Y1	-	
4	X1	-	