HDM1216C-2

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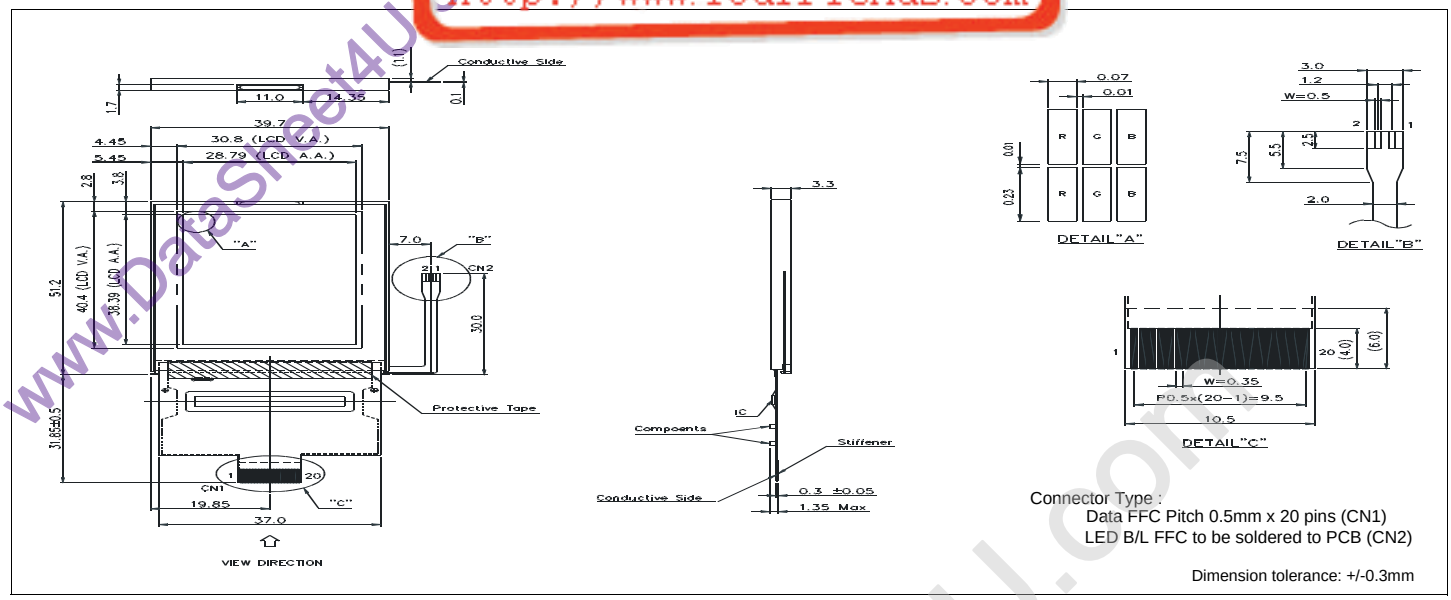
2” Color 120 X 160 Dots Graphic

Dimensional Drawing



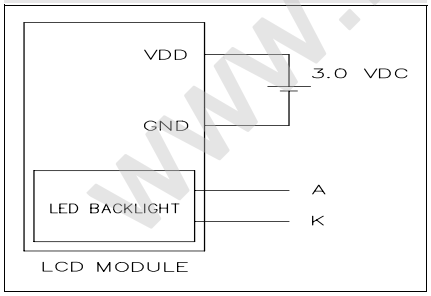
Features

Backlight.....LED
Options.....Color RGB
Bottom Viewing
Built-in DC/DC Converter for LCD power
Built-in Controller.....EPSON S1D15G00

Physical Data

Module Size.....39.7W x 83.05H x 3.3T mm
Viewing Area Size.....30.8W x 40.4H mm
Dot Pitch.....0.08W x 0.24H mm
Dot Size.....0.07W x 0.23H mm
Weight 11.0g

Power Supply



Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	V_{DD}-V_{SS}	-0.3	3.6	V
INPUT VOLTAGE	V_{IN}	-0.3	V_{DD}+0.5	V
OPERATING TEMPERATURE	T_{OP}	0	50	°C
STORAGE TEMPERATURE	T_{STG}	-20	70	°C

Electrical Characteristics (VDD=3.0±10%)

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
INPUT HIGH VOLTAGE	V_{IH}	-	0.7 V_{DD}	-	V_{DD}	V
INPUT LOW VOLTAGE	V_{IL}	-	0	-	0.3 V_{DD}	V
LCD Driving VOLTAGE	V_{OP}	25°C	11.0	11.3	11.6	V
Power Supply Current	I_{DD}	V_{DD} = 3V	-	1.5	2.3	mA
LED Forward Voltage	V_F	I_F = 45 mA	-	5.0	-	V
LED Forward Current	I_F	V_F = 5.0 V	-	45	60	mA
LED Power Consumption	P_F	-	-	0.23	-	W
DRIVE METHOD	1/160 DUTY					

Pin Connections

PIN NO.	SYMBOL	LEVEL	FUNCTION
1	V_{SS}	-	Ground
2			
3	$\overline{REST}$	H/L	RESET
4	$\overline{WR}$	H/L	Write Signal
5	$\overline{RD}$	H/L	Read Signal
6	D7	H/L	Display data Bus
7	D6	H/L	
8	D5	H/L	
9	D4	H/L	
10	D3	H/L	
11	D2	H/L	
12	D1	H/L	
13	D0	H/L	
14	A0	H/L	H= Data, L = Command
15	$\overline{CS}$	H/L	Chip Select Signal
16	CLS	H/L	Display Clock Selection H=Built-in Oscillator, L=External Clock
17	CL	H/L	Display Clock Input or Output
18	TEST	L	IC Test PIN, Should be Low in normal operation
19	V_{DD}	3V	Power Supply for Logic
20	V_{SS}	0V	Ground

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