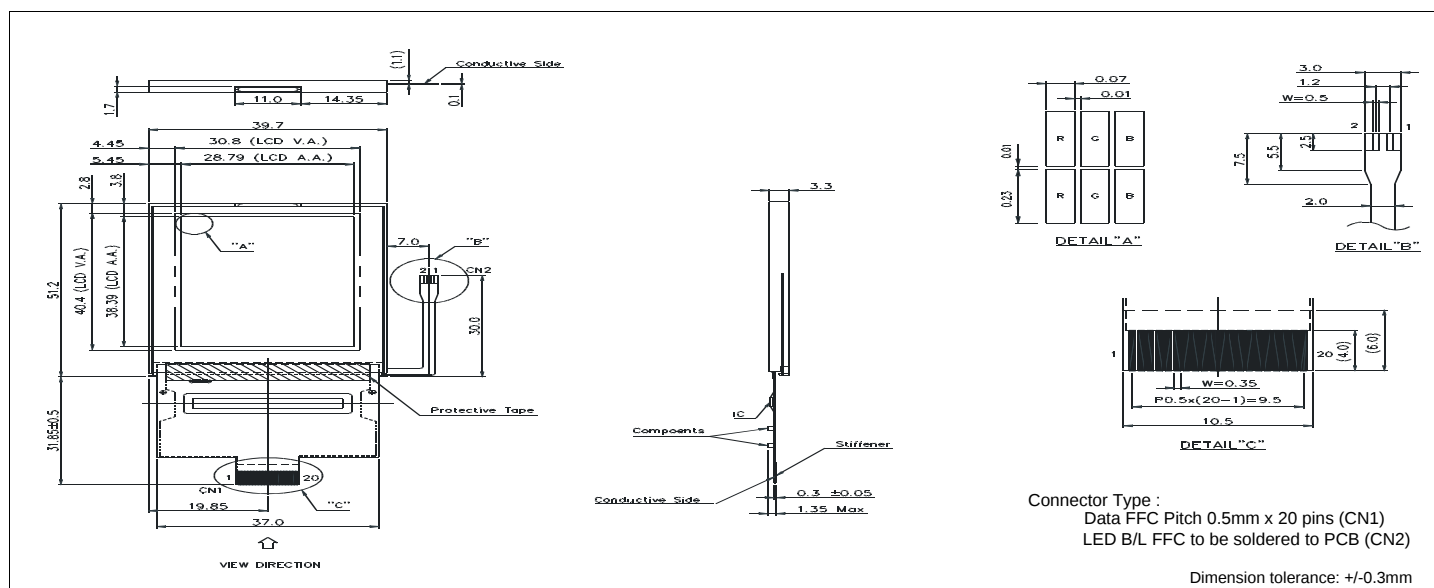


Dimensional Drawing

2" Color 120 X 160 Dots Graphic

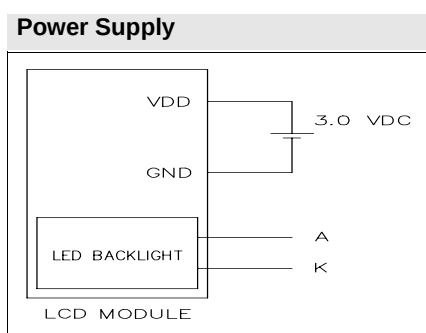


Features

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



Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	V_{DD-VSS}	-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	$\overline{\text{REST}}$	H/L	RESET
4	$\overline{\text{WR}}$	H/L	Write Signal
5	$\overline{\text{RD}}$	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	$\overline{\text{CS}}$	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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