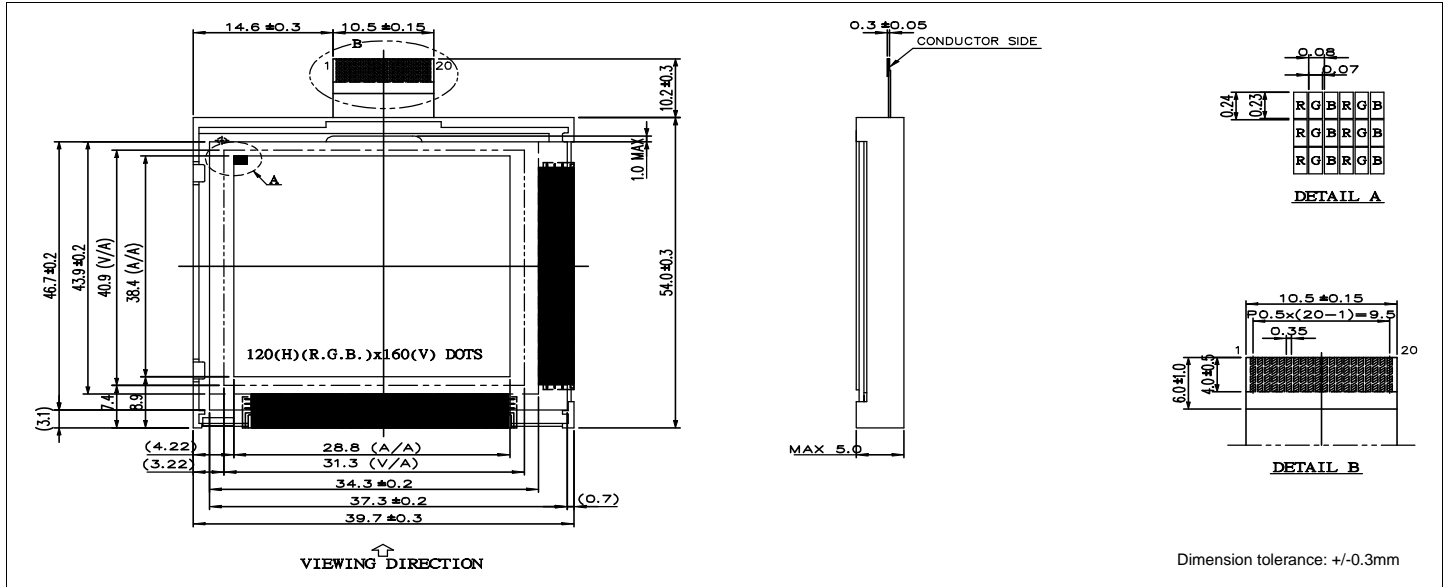


# HDM1216C

## 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.....Hitachi HD66765+HD66764

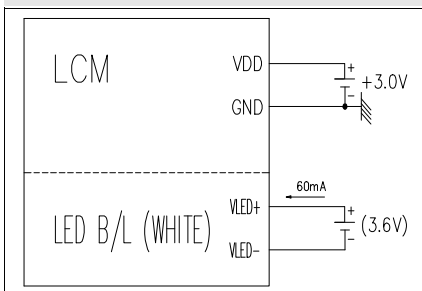
### Physical Data

- Module Size.....39.7W x 54.0H x 5.0T 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 .....12.8g

### Electrical Characteristics (VDD=3.0±5%)

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
Logic Power Supply	V <sub>DD</sub>	T <sub>a</sub> = 25°C	2.7	3.0	3.3	V
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
LCD Driving VOLTAGE	V <sub>OP</sub>	T <sub>a</sub> = 25°C	20.5	20.8	21.1	V
Power Supply Current	I <sub>DD</sub>	V <sub>DD</sub> = 3V	-	2.9	4.3	mA
LED Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 60 mA	-	3.6	4.0	V
LED Forward Current	I <sub>F</sub>	V <sub>F</sub> = 3.6 V	-	60	90	mA
LED Power Consumption	P <sub>F</sub>	-	-	0.3	0.45	W
DRIVE METHOD	1/160 DUTY					

### Power Supply



### Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	V <sub>DD</sub> -V <sub>SS</sub>	-0.3	3.6	V
INPUT VOLTAGE	V <sub>IN</sub>	-0.3	V <sub>DD</sub> +0.5	V
OPERATING TEMPERATURE	T <sub>OP</sub>	0	50	°C
STORAGE TEMPERATURE	T <sub>STG</sub>	-20	70	°C

### Pin Connections

PIN NO.	SYMBOL	LEVEL	FUNCTION
1	V <sub>DD</sub>	3V	Power Supply for Logic
2	REST	H/L	RESET
3	WR	H/L	Write Signal
4	RD	H/L	Read Signal
5	D7	H/L	Display data Bus
6	D6	H/L	
7	D5	H/L	
8	D4	H/L	
9	D3	H/L	
10	D2	H/L	
11	D1	H/L	
12	D0	H/L	
13	A0	H/L	H= Data, L = Command
14	CS	H/L	Chip Select Signal
15	V <sub>SS</sub>	0V	Ground
16	A	-	Power Supply for LED Backlight
17	K	-	
18	NC	-	No Connection
19	NC	-	
20	NC	-	