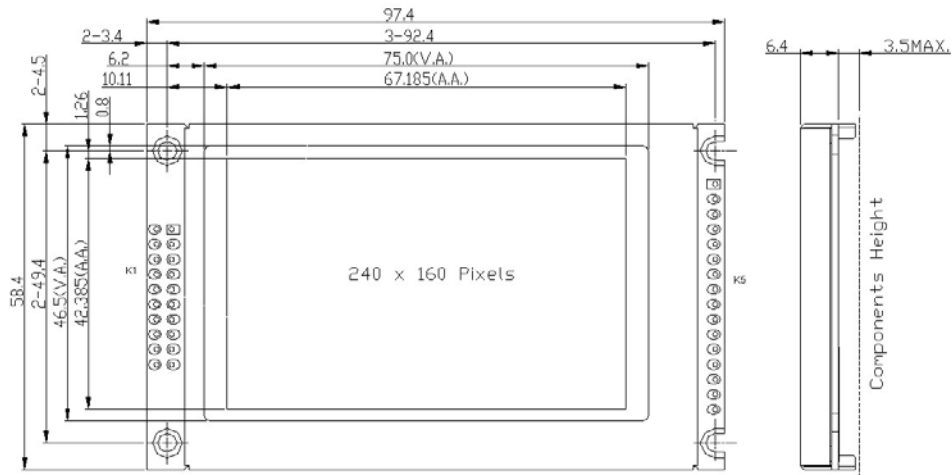


### OUTLINE DRAWING



### FEATURES

- 240x160 dots
- DC/DC on board, 5.0V Power supply
- Parallel & Serial interface optional
- Support 4 gray scale and Multi-layer display
- Ultra high contrast, FSTN-Positive &
- STN-Blue optional

### MECHANICAL DATA

Item	Value
Outline (mm)	97.4 x 58.4 x 9.9MAX.
Viewing Area (mm)	75.0 x 46.5
Active Area (mm)	67.185 x 42.385
Dot Pitch (mm)	0.28 x 0.265
Dot Size (mm)	0.265 x 0.25

### TERMINAL FUNCTIONS

Pin	Name	Descriptions	
1	VSS	0V Power Supply, Ground	
2	VDD	Positive Power Supply	
3	V0	LCD Contrast Reference Input	
4	/WR	Write enable input, active LOW	
5	/RD	Read enable input, active LOW	
6	/CS	Chip Select Signal	
7	A0	Register Select	
8	/RES	Reset Signal	
9	D0	8-bit bi-directional data bus	
:	:		
16	D7		
17	BUSY		Controller busy signal
18	VOUT		Power Booster Output for V0
19	BLA		Positive Power Supply for LED backlight
20	BLK		Negative Power Supply for LED backlight

### DISPLAY CHARACTERISTICS

Item	Value
LCD Display Mode	FSTN, Positive, Transflective
View Angle	9:00
Driving Method	1/160 duty, 1/14 bias
Backlight	White LED Backlight

### ELECTRICAL CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Operating Voltage (V)	V <sub>DD</sub>	4.5	5.0	5.5
Input High Voltage (V)	V <sub>IH</sub>	0.8V <sub>DD</sub>	-	V <sub>DD</sub>
Input Low Voltage (V)	V <sub>IL</sub>	V <sub>SS</sub>	-	0.2V <sub>DD</sub>
Operating Current (mA)	I <sub>DD</sub>	-	15.5	48

### BACKLIGHT CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Forward Voltage (V)	V <sub>fBLA</sub>	-	5.0	-
Forward Current (mA)	I <sub>fBLA</sub>	-	85	100

### TEMPERATURE CHARACTERISTICS

Item	Symbol	Min	Max
Operating Temperature (°C)	T <sub>OP</sub>	-20	+70
Storage Temperature (°C)	T <sub>ST</sub>	-30	+80

### MAJOR PRODUCT LIST

Models	Highlight		
	LCD Mode	Backlight	Voltage
LM240160RCW★	FSTN-Pos	White LED	5.0V
LM240160RFW	STN-Blue	White LED	5.0V

For similar product or (semi) custom made LCD module, please visit our web site or contact us.

★The above product information is based on this model.