



## PC1602C-O Series (16x2) Character Display

### Features

- \*16 Character, 2 Line
- \*View Angle 12H or 6H
- \*STN Fluid Yellow, Gray or Blue
- \*Extended Temperature Range available
- \*LED Backlight available
- \*RoHS Compliant



### Absolute Maximum Ratings at T<sub>A</sub> = 25°C

Item	Symbol	Min	Max	Unit
Power Supply (Logic)	Vdd	0.5	6.5	V
Input Voltage	V <sub>i</sub>	0.5	Vdd+0.5	V
Operating Temperature (Standard)	T <sub>opr</sub>	0	50	°C
Storage Temperature (Standard)	T <sub>stg</sub>	-10	60	°C
Extended Operating Temperature	T <sub>opr</sub>	-20	70	°C
Extended Storage Temperature	T <sub>stg</sub>	-30	80	°C

### Electrical Characteristics at T<sub>A</sub> = 25°C, Vdd=5V±0.25V

Item	Symbol	Min	Typ	Max	Unit
Power Supply (Logic)	Vdd-Vss	4.5	5.0	5.5	V
Supply Current	I <sub>dd</sub>	0.8	1.0	1.5	mA

### Interface Pin Connection

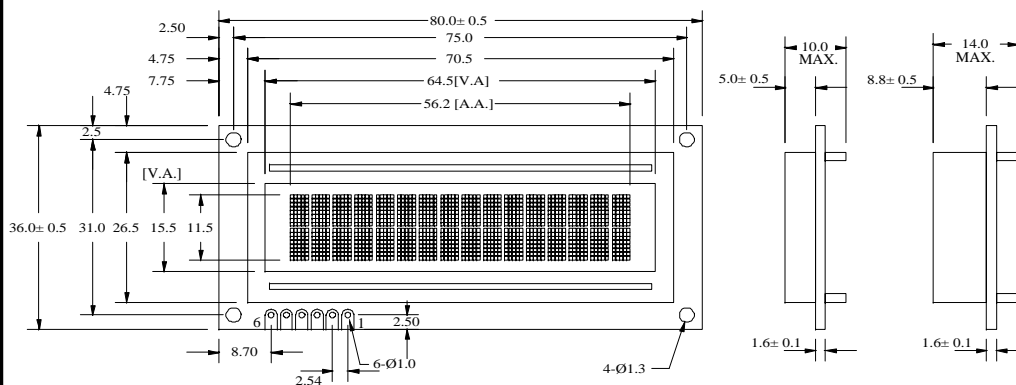
No	Symbol	Function
1	Vss	Power Supply (GND)
2	Vdd	Power Supply (+5V)
3	SCL	I2C-Buss Serial Clock Input
4	SDL	Data Input/Output
5	A	Power Supply for LED Backlight (+)
6	K	Power Supply for LED Backlight (-)

### LED Backlight Specifications

Forward Voltage	Forward Current	Power Dissipation	Peak Wavelength
4.3V (Max)	100mA	410mW	570nm (Typ)

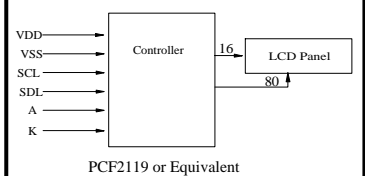
### Mechanical Specifications

Item	Overall Size	Viewing Area	Character Size	Character Pitch	Dot Size
Specifications	80.0W x 36.0H x 10.0T (BL14.0T)	64.5W x 15.5H	2.95W x 5.55H	3.55x5.95	0.55W x 0.65H



All dimensions are in mm. Tolerance is ± 0.3 Unless otherwise specified

### LCD Block Diagram



### Dot Layout

