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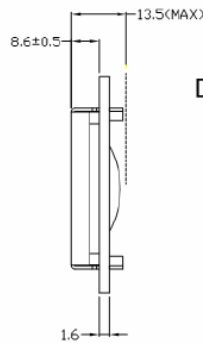
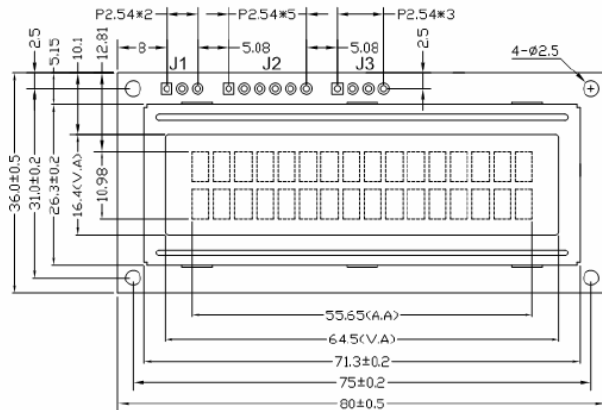
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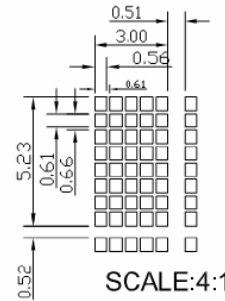
Si14LCD2L16CH, 2-Line by 16-Character LCD Display Module with 5V RS232 Protocol



Mechanical Drawing



Display Pattern



PIN ASSIGNMENT

1	RX
2	VSS
3	VDD

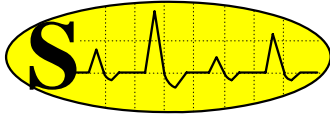
1	SPISS
2	SDO
3	SCK/SCL
4	SD/SDA
5	VSS
6	VDD

1	K
2	A-RED
3	A-GREEN
4	A-BLUE

Notes:

- 1). Drive Method: 1/16duty, 1/5bias, VDD5.0V VLCD4.5V
- 2). Display Type: FSTN/Positive/Transflective/6:00 Angle
- 3). Operating Temp: -20°C~70°C/Storage Temp: -30°C~80°C
- 4). Backlight Type: Edge/R,G,B
- 5). Driver: SPLC780D And PIC16F690 MPU
- 6). RoHS Compliant

NHD-0216K3Z-FS(RGB)-FBW



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Pin Description

Pin No.	Symbol	External Connection	Function Description
1	RX	MPU	RS232 Serial input port
2	VSS	Power Supply	Ground
3	VDD	Power Supply	Power supply for logic (+5.0V)
1	SPISS	MPU	SPI Slave Select (NC in I2C mode)
2	SDO	NC	No Connect
3	SCK/SCL	MPU	Serial Clock
4	SDI/SDA	MPU	Serial Data In (SPI) / Serial Data (I2C)
5	VSS	Power Supply	Ground
6	VDD	Power Supply	Power Supply for logic (+5.0V)
1	K	Power Supply	Ground for LED backlights
2	A-RED	Power Supply	Power supply for Red LED (2.2V)
3	A-GREEN	Power Supply	Power supply for Green LED (3.3V)
4	A-BLUE	Power Supply	Power supply for Blue LED (3.3V)

Recommended LCD connector: 2.54mm pitch pins on J1 or J2

Backlight connector: 2.54mm pitch pins on J3

Communication Information

This display uses a built-in PIC 16F690 for serial communication.

RS232 protocol:

To enter the RS232 mode, both R1 and R2 should be open.

The RS232 signal must be 5V TTL compatible. Communication format is 8-bit data, 1 Stop bit, no parity, no handshaking. Default BAUD rate is 9600, and is changeable with a command function. Once the BAUD rate has been changed, it will be saved in the system memory, and it will revert back to the default address if either I2C or SPI protocol is selected.