LCD-20x4Y
20x4 Liquid Crystal Display with HD44780 driver
(Yellow-Green Backlight and Black Character)
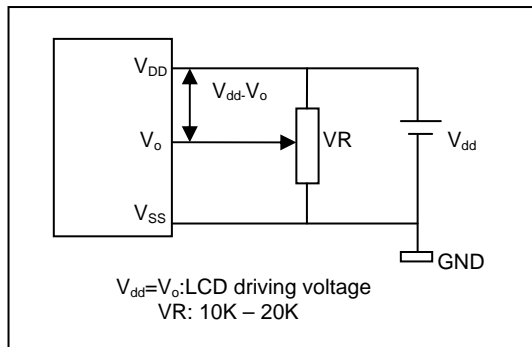
Specifications

Display Format	20 characters x 4 lines
Drive Method	1/16 duty, 1/5 bias
LCD Type	STN yellow green
LED Backlight	Yellow/Green
Viewing direction	6: 00
Operating Temperature	-20°C to 60°C

Electrical Characteristics

Parameter	Symbol	Condition	Stand value			UNIT
			Min.	Typ.	Max.	
Supply Voltage for Logic	V_{DD}-V_{SS}	-	4.5	5.0	5.5	V
Supply Voltage for LCD	V_{DD}-V_o	-	-	4.7	-	V
Input Logic HIGH	V_{IH}	-	2.2	-	V_{DD}	V
Input Logic LOW	V_{IL}	-	-0.3	-	0.6	V
Output Logic HIGH	V_{OH}	-I_{OH}=0.2mA	2.4	-	-	V
Output Logic LOW	V_{OL}	I_{OL}=1.2mA	-	-	0.4	V
Power Supply Current without backlight	V_{DD}	V_{DD}=5.0V	-	2.0	5	mA
Power Supply Current with backlight	I_{LED}	V_{LED}=5.0V	-	72	80	mA

Power Supply

V_{dd}=V_o:LCD driving voltage
VR: 10K – 20K

Block Diagram

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
NAME	VSS	VDD	V0	RS	R/W	E	DB0	DB1	DB2	DB3	DB4	DB5	DB6	DB7	A	K
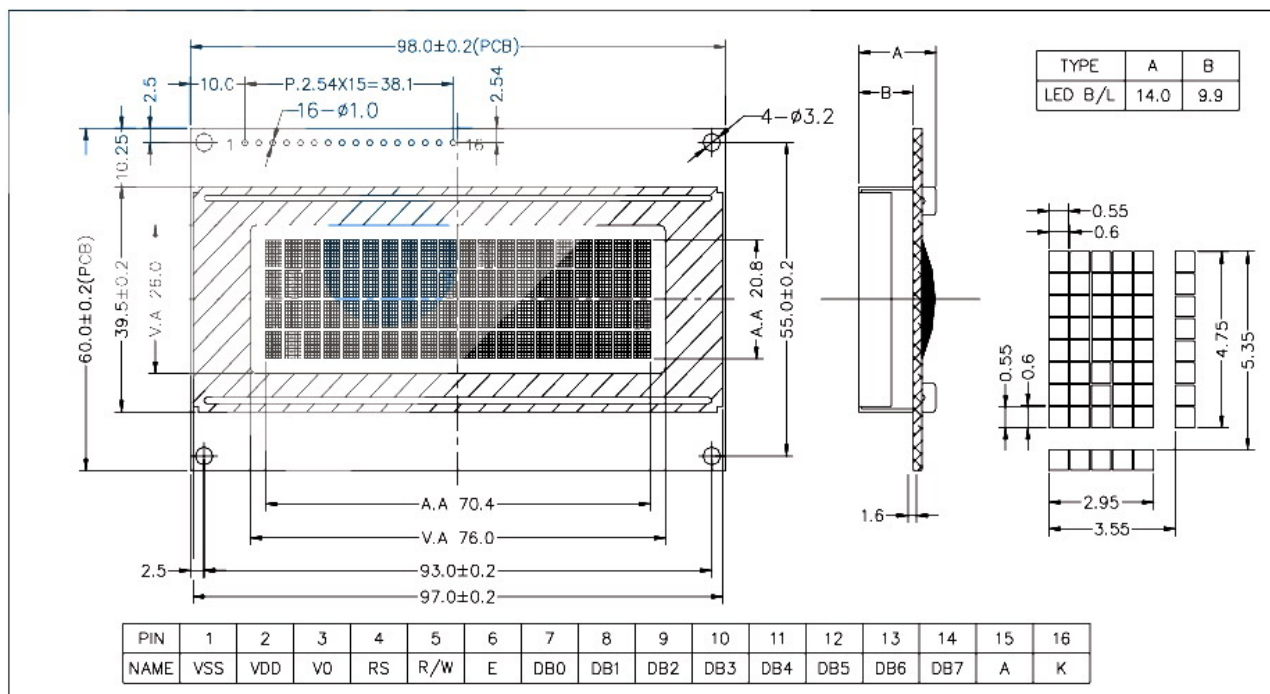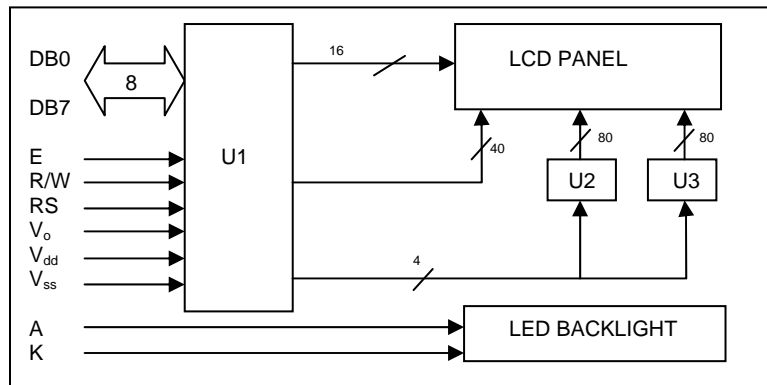
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  LCD-20x4Y