• EXTERNAL DIMENSIONS
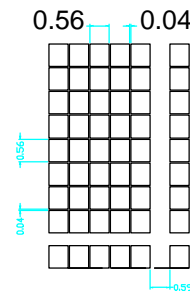
[ ]For LED Backlight

VA 64.5

56.21

GMO-00056 16x2 RGB
www.geekammo.com

GMO-00057 16x2 RGB:FSTN Positive
GMO-00056 16x2 RGB:FSTN Negative

0.56   0.04

GMO-00057 16x2 RGB :FSTN Positive

GMO-00056 16x2 RGB :FSTN Negative

0.59
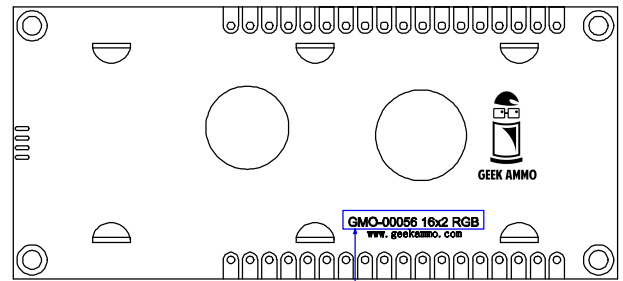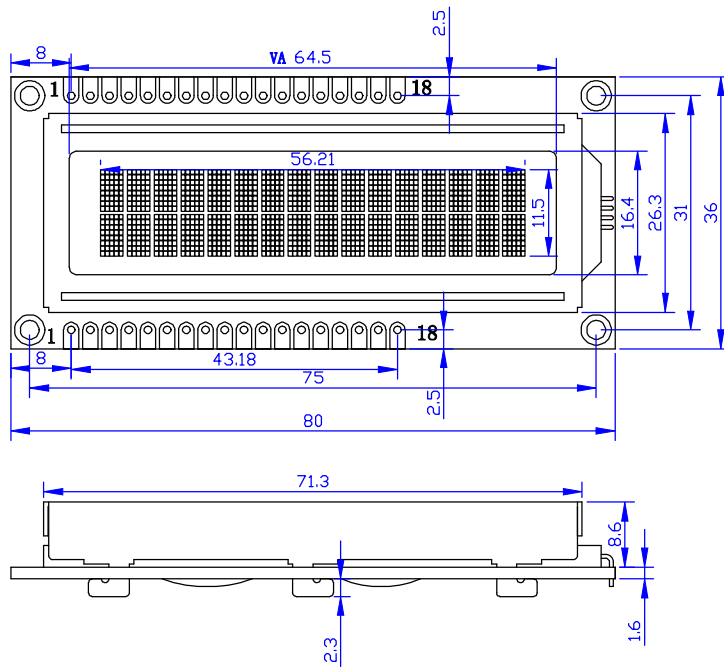
• BLOCK DIAGRAM

• POWER SUPPLY

Vdd−Vo: LCD driving voltage
VR: 10K ~20K
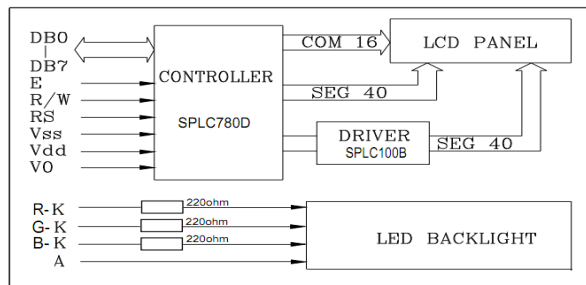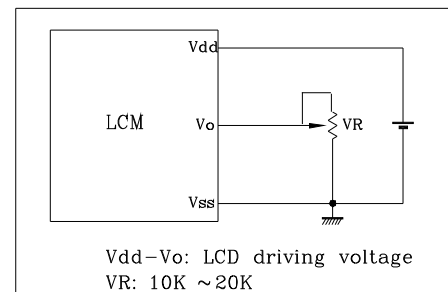
MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATION	UNIT
Module Size (WxHxT)	80x36x12.5	mm
Viewing Area (WxH)	64.5x16.4	mm
Character Font (WxH)	5x7+cursor	dots
Character Size (WxH)	2.96x5.56	mm
Character Pitch (WxH)	3.55x5.94	mm
Dot Size (WxH)	0.56x0.56	mm
Character Type	Eng/Jap, Eng/Eur, Eng/Rus	
LCD MODE	STN(Y/G,Gray,Blue),FSTN	

PIN ASSIGNMENT

PIN	SYMBOL	FUNCTION
1	Vss	Power Supply (0V)
2	Vdd	Power Supply (+5V)
3	Vo	Contrast Adjust
4	RS	Data/Instruction Register Select
5	R/W	Read/Write
6	E	Enable Signal
7~14	DB0~DB7	Data bus Line
15	A	Power Supply for LED BL (5V+)
16	RED-K	
17	GREEN-K	Power Supply for LED BL (-)
18	BLUE-K	

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN.	MAX.	UNIT
Power Supply (logic)	Vdd-Vss	-0.3	7.0	V
Power Supply (LCD)	Vdd-Vo	3.0	13.0	V
Input Voltage	Vi	-0.3	Vdd+0.3	V
Operating Temperature	Topr	0	50	
Storage Temperature	Tstg	-20	70	

ELECTRICAL CHARACTERISTICS (Ta=25)

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Power Supply (logic)	Vdd	-	4.5	5.0	5.5	V
Supply Current (logic)	Idd		0	1.5	3.0	mA
Driving Voltage (LCD)	Vdd-Vo		4.4	4.7	5.0	V
Driving Current (LCD)	Ilcd	VDD=5.0V	0	-	0.8	mA
Input Voltage "H"	Vih		2.2	-	Vdd	V
Input Voltage "L"	Vil		-0.3	-	0.6	V
Output Voltage "H"	Voh	Ioh=-0.205mA	2.4	-	-	V
Output Voltage "L"	Vol	Iol=1.2mA	-	-	0.4	V

LED BACKLIGHT SPECIFICATIONS

PARAMETER	TYP.	ITEM	TYP.
Forward Voltage	3.2V	Power Dissipation	144 mW
Forward Current	3x15 mA	Emission Wavelength	