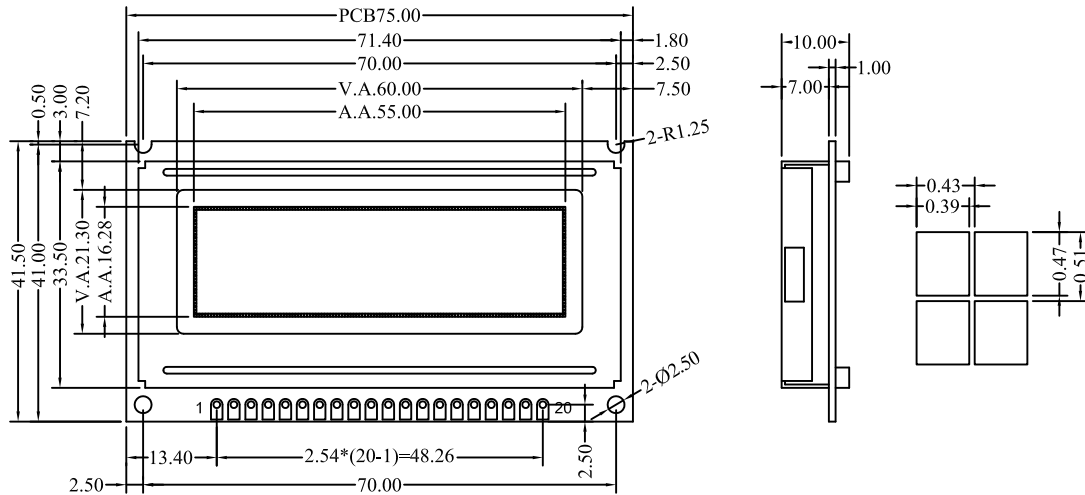


1.DIMENSION OUTLINE



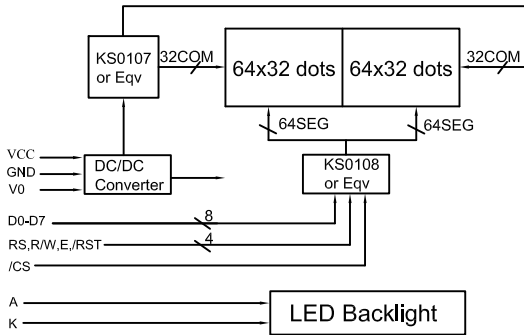
2.MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATIONS	ITEM	REMARK
Module Size(L×W×H)	75.0×41.5×10.0	mm	Reference Dimensional Outline
View Area(W×H)	60.0×21.3	mm	
Effective V/Area	55.00×16.28	mm	
Number of Characters	128×32	-	
Dot Pitch(W×H)	0.43×0.51	mm	
Dot Size(W×H)	0.39×0.47	mm	
Weight (Reflective/Led)	-	g	

3.ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	CONDITION	STANDARD	
			MIN	MAX
Logic Voltage	V <sub>DD</sub>	Ta=25°C	-0.3V	7V
LCD Voltage	V <sub>LCD</sub>		-0.3V	12.5V
Input Voltage	V <sub>I</sub>		-0.3V	V <sub>DD</sub> +0.3V
Operation Temperature	T <sub>OP</sub>	—	-30°C	80°C
Storage Temperature	T <sub>st</sub>	—	-40°C	90°C

4.BLOCK DIAGRAM MECHANICAL



5.LED BACKLIGHT SPECIFICATIONS

ITEM	SYMBOL	TYPE	MAX	UNIT
Ta=25°C (Yellow-Green LED Light)				
Forward Voltage	V <sub>f</sub>	4.1	4.3	V
Forward Current	I <sub>f</sub>	200	—	mA
Emission Wavelength	λ <sub>p</sub>	568	—	nm

6.INTERFACE PIN CONNECTIONS

ITEM	SYMBOL	LEVEL	FUNCTIONS
1	VCC	+5V	Power Supply For Logic
2	GND	0V	Power Ground
3	V0	—	Contrast adjust
4-11	DB0-DB7	H/L	Data Bus
12	/CS	L	Chip selection, Low Active
13	/RST	L	Reset signal
14	R/W	H/L	H:read L:write
15	RS	H/L	H:data L:command
16	E	H.H→L	Enable signal
17	FG	—	Frame Ground
18	NC	—	Left Open
19	A	+5V	Power Supply For LED Backlight
20	K	0V	

7.ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	MIN	TYPE	MAX	UNIT
Ta=25°C					
Logic Power	V <sub>DD</sub>	4.75	5	5.25	V
Input High Voltage	V <sub>IH</sub>	0.8V <sub>DD</sub>	—	V <sub>DD</sub>	V
Input Low Voltage	V <sub>IL</sub>	V <sub>SS</sub>	—	0.8	V
Output High Voltage	V <sub>OH</sub>	2.4	—	—	V
Output Low Voltage	V <sub>OL</sub>	0	—	0.4	V
Logic Current	I <sub>DD</sub>	—	6	8	mA
Operation Voltage For LCD	V <sub>DD-V0</sub>	—	5	—	V