

G12864-8

128 DOTS×64 DOTS

1/64 DUTY

1/9 BIAS

1.FEATURE:

LCD TYPE	STN/FSTN
LCM BACKLIGHT TYPE	LED BACKLIGHT
LCM CONTROLLER IC	BUILT IN S6B0108 OR EQUIVALENT
POWER SUPPLY FOR LCM	DC +5.0V OR 3.30V
LED BACKLIGHT INPUT	DC +5.0V OR 3.30V
EL BACKLIGHT INPUT	----
EL INVERTER	----
FL BACKLIGHT INPUT	----
FL INVERTER	-
LCM DIMENSION	93.0×70.0×9.5(14.0) mm
LCM VIEWING AREA	72.0×39.0 mm
LCD DOT SIZE	0.48×0.48 mm
LCD DOT PITCH	0.52×0.52 mm

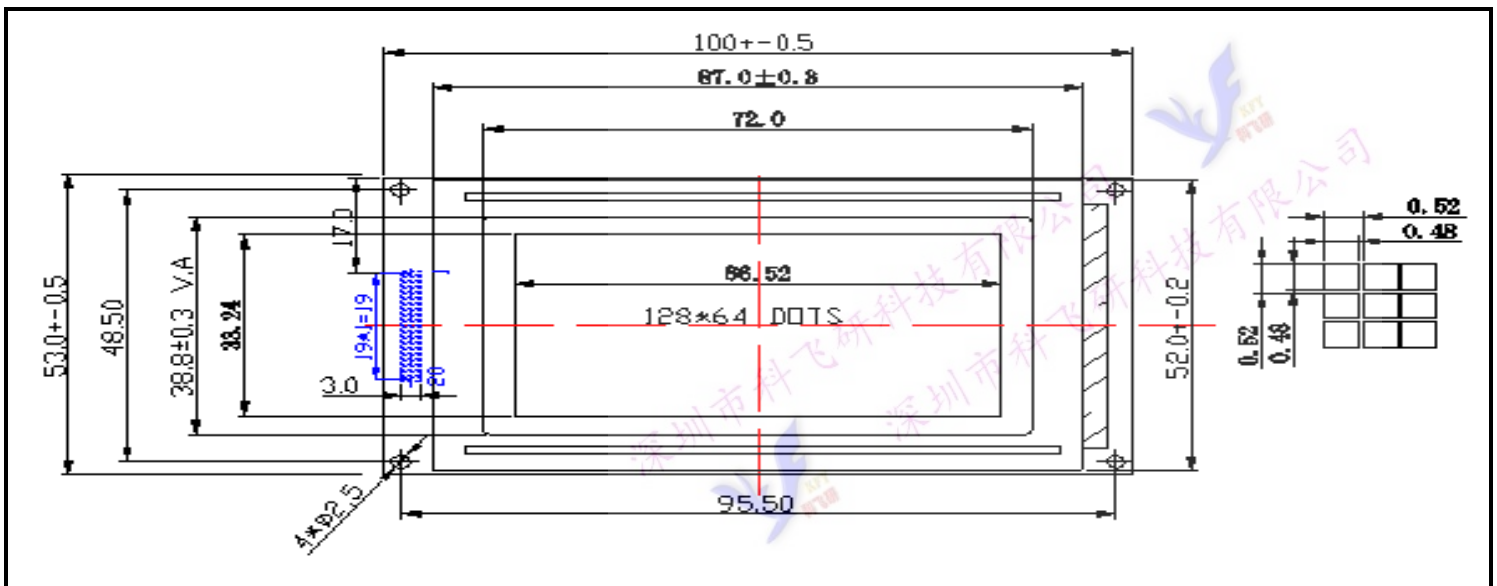
3.ABSOLUTE MAXIMUM RATINGS:

ITEM	SYM	MIN	TYP	MAX	UNIT
OPERATING TEMP.	T _{OP}	-20	-	+70	
STORAGE TEMP.	T _{ST}	-30	-	+80	
INPUT VOLTAGE	V _I	V _{SS}	-	V _{DD}	V
SUPPLY VOL. FOR LOGIC	V _{DD} -V _{SS}	-	-	7.0	V
SUPPLY VOL. FOR LCD	V _{DD} -V _{EE}	-	-	10.0	V

5.INTERFACE PIN CONNECTIONS:

NO	SYM	LEVEL	FUNCTION
1	V _{SS}	-	0V
2	V _{DD}	-	+5V
3	V _O	-	CONTRAST ADJ.
4	D/I	H/L	H:DATA, L:INSTRUCTION CODE
5	R/W	H/L	H:READ(LCD → MPU) L:WRITE(MPU → LCD)
6	E	H.H → L	ENABLE SIGNAL
7	DB0	H/L	DATA BIT0
8	DB1	H/L	DATA BIT1
9	DB2	H/L	DATA BIT2
10	DB3	H/L	DATA BIT3
11	DB4	H/L	DATA BIT4
12	DB5	H/L	DATA BIT5
13	DB6	H/L	DATA BIT6
14	DB7	H/L	DATA BIT7
15	CS1	H	CHIP SELECT SIGNAL FOR IC1
16	CS2	H	CHIP SELECT SIGNAL FOR IC2
17	RST	L	RESET SIGNAL
18	V _{EE}	-5.0V	NEGATIVE VOLTAGE OUTPUT (-5.0V)
19	A(+)	+5.0V	BACKLIGHT(+)
20	K(-)	0V	BACKLIGHT(-)

6.DIMENSIONAL DRAWING :



2.ELECTRICAL CHARACTERISTICS:

ITEM	SYM	CONDITION	MIN	TYP	MAX	UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	T _a = 25	4.5	5.0	5.5	V
SUPPLY VOLTAGE FOR LCD DRIVER	V _{EE} -V _{SS}	T _a = 25	-	-	-5.0	V
OPERATING VOL. FOR LCD MODULE	V _{DD} -V _O	T _a = 25	-	8.0	-	V
INPUT HIGH VOL.	V _{IH}	-	0.7V _{DD}	-	V _{DD}	V
INPUT LOW VOL.	V _{IL}	-	0	-	0.3V _{DD}	V
SUPPLY CURRENT FOR LOGIC	I _{DD}	V _{DD} = 5.0V	-	-	7.0	mA
SUPPLY CURRENT FOR LCD	I _{LCD}	V _O = -3.0V	-	-	12.0	mA
LED CURRENT	I _F	T _a = 25	-	300	-	mA
LED DISSIPATION	P _D	T _a = 25	-	1500	-	mW

4. BLOCK DIAGRAM:

