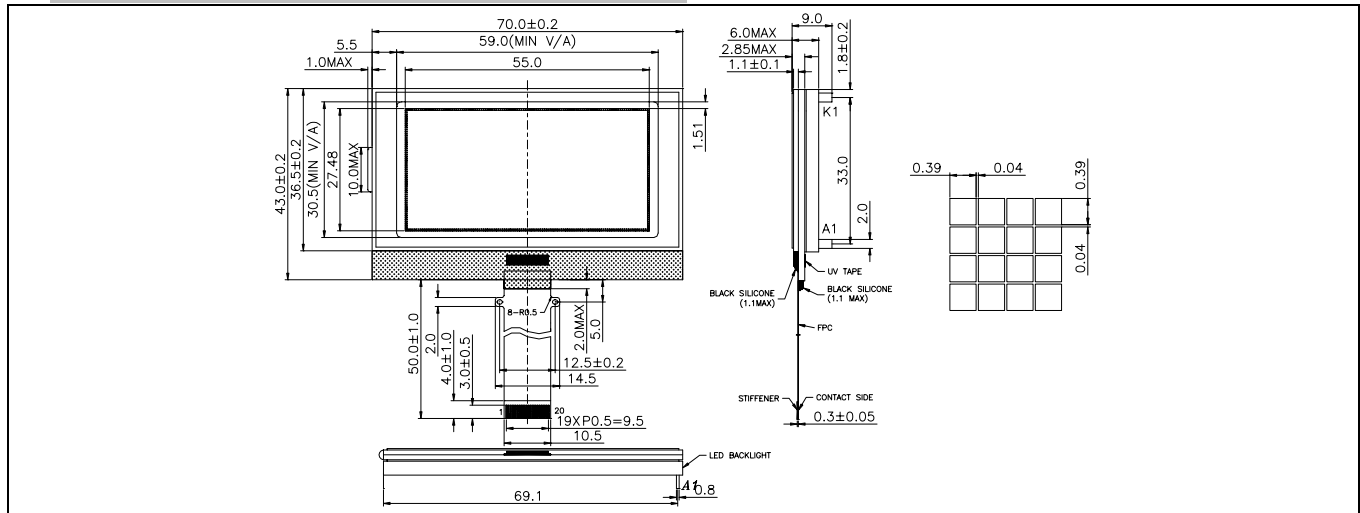


HE125XX50

1. EXTERNAL DIMENSION AND DISPLAY PATTERN



2. MECHANICAL DATA

ITEM	SPECIFICATION	UNIT
Module Size (W×H×T)	70.0×43.0×6.0	mm
Viewing Area (W×H)	59.0×30.5	mm
Number of Dots (W×H)	128×64	dots
Dot Pitch (W×H)	0.43×0.43	mm
Dot Size (W×H)	0.39×0.39	mm

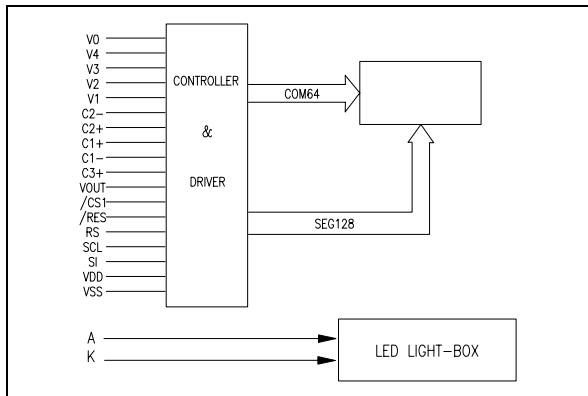
3. ELECTRICAL CHARACTERISTICS (Ta=25 °C)

ITEM	SYMBOL	CONDITION	SPEC. VALUE			UNIT	
			MIN.	TYP.	MAX.		
Supply Voltage (Logic)	$V_{DD} - V_{SS}$		2.7	3.0	3.3	V	
Supply Current (Logic)	I_{DD}	$V_{DD}=5V$	-	120	180	uA	
Input Voltage	"HIGH"	V_{IH}	0.8 V_{DD}	-	V_{DD}	V	
	"LOW"	V_{IL}	V_{SS}	-	0.2 V_{DD}	V	
Output Voltage	"HIGH"	V_{OH}	-0.205mA	0.8 V_{DD}	-	V_{DD}	V
	"LOW"	V_{OL}	1.6mA	V_{SS}	-	0.2 V_{DD}	V
LCD Operating Voltage	$V_{DD} - V_0$	$V_{DD}=5V, Ta=25 °C$	-	9.0	-	V	

4. PIN CONFIGURATION

PIN	SYMBOL	SIGNAL DESCRIPTION	PIN	SYMBOL	SIGNAL DESCRIPTION
1	NC	No Connection	11	C3+	Cap. 3 Positive Connection Pin for Voltage Converter
2	V0	LCD Driver Supply Voltage	12	V_{out}	Voltage Converter Input/Output Pin
3	V4	LCD Driver Supply Voltage	13	V_{SS}	GND (0V)
4	V3	LCD Driver Supply Voltage	14	V_{DD}	Power Supply
5	V2	LCD Driver Supply Voltage	15	SI	Serial Input Data
6	V1	LCD Driver Supply Voltage	16	SCL	Serial Input Clock
7	C2-	Cap. 2 Negative Connection Pin for Voltage Converter	17	RS	Register Select Input Pin
8	C2+	Cap. 2 Positive Connection Pin for Voltage Converter	18	/RES	Reset Signal
9	C1+	Cap. 1 Positive Connection Pin for Voltage Converter	19	/CS	Chip Select Signal
10	C1-	Cap. 1 Negative Connection Pin for Voltage Converter	20	NC	No Connection

5. BLOCK DIAGRAM



6. BACKLIGHTING CHARACTERISTICS (Ta=25 °C)

LED

ITEM	SYMBOL	CONDITION	MIN	TYP	MAX	UNIT
Supply Voltage	V_{LED}	-	-	-	-	V
Power Consumption	P_{LED}	$I_F = 60 \text{ mA}$	-	0.27	-	W
Luminous	I_v	$I_F = 60 \text{ mA}$	-	50	-	cd/m ²