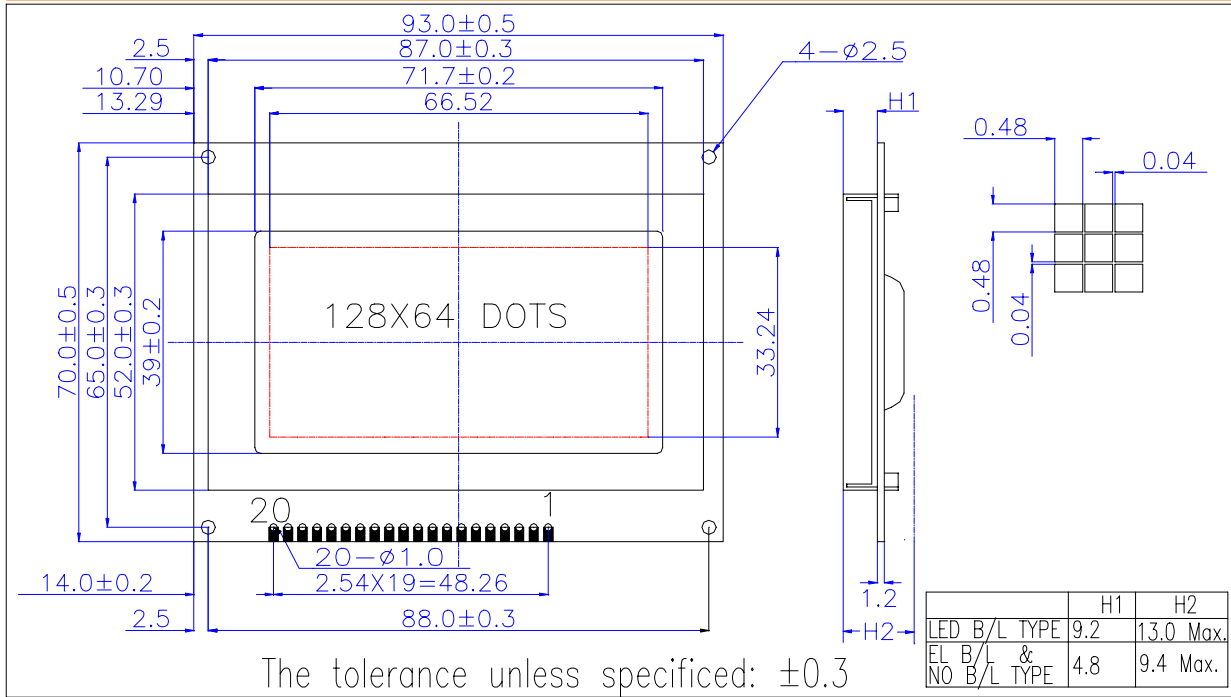


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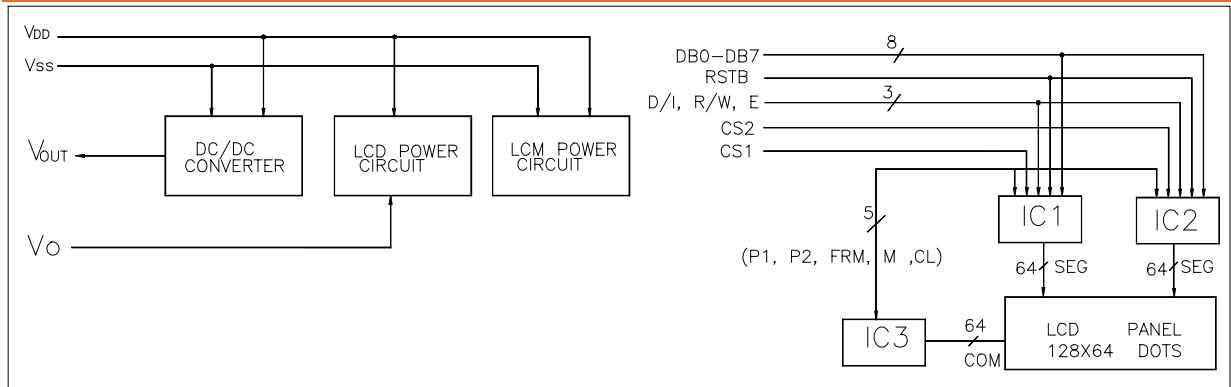
1/64 DUTY, 1/9 BIAS

(128 × 64 Dots)

1. DIMENSIONAL OUTLINE



2. BLOCK DIAGRAM



3. MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATIONS	UNIT	REMARK
DIMENSIONAL OUTLINE	93.0 (W) × 70.0 (H) × 9.4/14.5 MAX. (T)	mm	*REFERENCE DIMENSIONAL OUTLINE
VIEWING AREA	71.7 (W) × 39.0 (H)		
EFFECTIVE V/AREA	66.52 (W) × 33.24 (H)		
NUMBER OF DOTS	128 (W) × 64 (H)	-	
DOT PITCH	0.48 (W) × 0.48 (H)	mm	
DOT SIZE	0.52 (W) × 0.52 (H)	mm	

(128 × 64 Dots)

4. ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	CONDITION	STANDARD VALUE		UNIT
			MIN	MAX.	
SUPPLY VOLTAGE FOR LOGIC	V _{DD}	Ta=25°C	-0.3	7.0	V
SUPPLY VOLTAGE FOR LCD	V _{LCD}		-0.3	17.5	
INPUT VOLTAGE	V _I		-0.3	V _{DD} +0.3V	
OPERATING TEMPERATURE	T _{OP}	-	-20	70	°C
STORAGE TEMPERATURE	T _{ST}	-	-30	80	°C

5. ELECTRICAL CHARACTERISTICS (Ta=25°C)

ITEM	SYMBOL	CONDITION	MIN	TYPE	MAX.	UNIT
LOGIC CIRCUIT POWER SUPPLY VOLTAGE	V _{DD}	-	4.5	5.0	5.5	V
INPUT HIGH VOLTAGE	V _{IH}	-	0.8 V _{DD}	-	V _{DD}	V
INPUT LOW VOLTAGE	V _{IL}	-	GND	-	0.2V _{DD}	V
OUTPUT HIGH VOLTAGE	V _{OH}	I _{OH} =-0.2mA	2.4	-	-	
OUTPUT LOW VOLTAGE	V _{OL}	I _{OL} =0.2mA	-	-	0.4	
LOGIC CIRCUIT POWER SUPPLY CURRENT	I _{DD}	V _{DD} =5.0V	-	9.0	15.0	mA
OPERATING VOLTAGE FOR LCD	V _{DD} - V _O	-	-	12.5	-	V

6. INTERFACE PIN CONNECTIONS

ITEM	SYMBOL	LEVEL	FUNCTIONS
1	GND	-	Power supply (GND)
2	V _{DD}	-	Power supply
3	V _O	-	Contrast adjust
4	D/I	H/L	Register selection H: Display data; L: Instruction
5	R/W	H/L	Read/Write selection H: Read; L: Write
6	E	H	Enable signal
7 - 14	DB0 - BD7	H/L	Data bus
15	CS1	H	Chip select signal for IC1
16	CS2	H	Chip select signal for IC2
17	RST	L	Reset signal
18	V _{out}	-	Negative voltage output
19	LED+	-	Power supply for LED
20	LED-	-	Power supply for LED