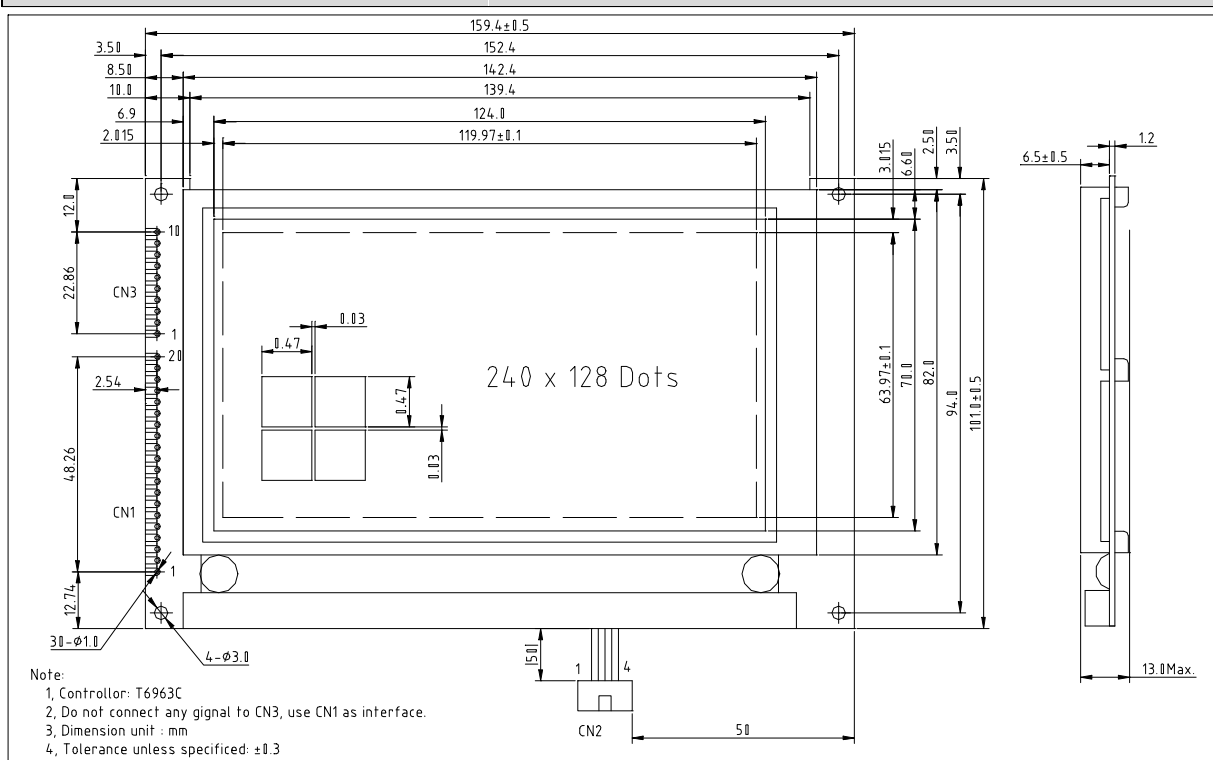


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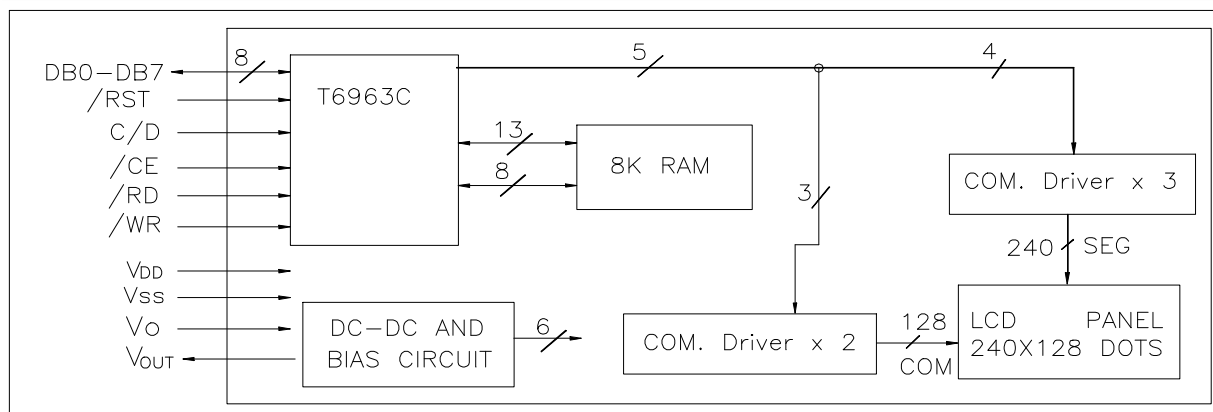
1/128 DUTY, 1/12 BIAS

(240 × 128 Dots)

1. DIMENSIONAL OUTLINE



2.BLOCK DIAGRAM



3. MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATIONS	UNIT	REMARK
DIMENSIONAL OUTLINE	159.4(W)×101.0(H)×13.0MAX.(T)	mm	*REFERENCE DIMENSIONAL OUTLINE
VIEWING AREA	124.0(W)×70.0(H)		
EFFECTIVE V/AREA	119.97(W)×63.97(H)		
NUMBER OF DOTS	240(W)×128(H)	-	
DOT PITCH	0.50(W)×0.50(H)	mm	
DOT SIZE	0.47(W)×0.47(H)	mm	

(240 × 128 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	19.5	
INPUT VOLTAGE	V _I		-0.3	V _{DD} +0.3V	
OPERATING TEMPERATURE	T _{OP}	-	0	50	°C
STORAGE TEMPERATURE	T _{ST}	-	-20	60	°C

5. ELECTRICAL CHARACTERISTICS(Ta=25°C)

ITEM	SYMBOL	CONDITIO N	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	-	15.0	25.0	mA
OPERATING VOLTAGE FOR LCD	V _{DD} - V _O	-	-	15.6	-	V

6. INTERFACE PIN CONNECTIONS

CN1:

ITEM	SYMBOL	LEVEL	FUNCTIONS
1	GND	-	Power supply (GND)
2	V _{DD}	-	Power supply
3	V _O	-	Contrast adjust
4	C/D	H/L	Command/Data
5	/WR	L	Data write
6	/RD	L	Data read
7 – 14	DB0 - BD7	H/L	Data bus
15	/CE	L	Enable signal
16	/RST	L	Reset signal
17	V _{OUT}	-	Negative Voltage output
18	/DISPOFF	L	Display off
19	nc	-	No connection
20	nc	-	No connection

CN2:

ITEM	SYMBOL	LEVEL	FUNCTIONS
1	CCFL1	-	Power supply for CCFL backlight
2	nc	-	No connection
3	nc	-	No connection
4	CCFL2	-	Power supply for CCFL backlight