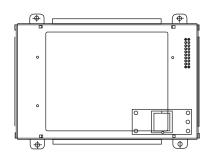


160 x 128 Dots Graphic LCD



FEATURES

- Built in controller TOSHIBA-(T6963C or equivalent)
- + 5V power supply
- 1/28 duty cycle
- N.V. optional
- Built in CCFL inverter

MECHANICAL DATA				
ITEM	STANDARD VALUE	UNIT		
Module Dimension	150.0 x 112.0	mm		
Viewing Area	101.0 x 82.0	mm		
Dot Size	0.54 x 0.54	mm		
Dot Pitch	0.58 x 0.58	mm		
Mounting Hole	118.0 x 105.0	mm		

ABSOLUTE MAXIMUM RATING					
ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	VDD-VSS	4.75	5.0	5.25	V
Input Voltage	VI	- 0.3	_	VDD	V

NOTE: VSS = 0 Volt, VDD = 5.0 Volt

ELECTRICAL SPECIFICATIONS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE		UNIT	
			MIN.	TYP.	MAX.	
Input Voltage	VDD	L level	0.7V _{DD}	-	V _{DD}	v
	VIO	H level	0	-	0.3V _{DD}	v
Supply Current	IDD	VDD = 5V	_	45	50	mA
		- 20 °C	19.9	21.0	22.1	
Recommended LC Driving	VDD - V0	0°C	19.0	-	21.2	V
Voltage for Normal Temp.		25°C	18.6	19.1	19.6	
Version Module		50°C	16.2	16.5	16.8	
		70°C	11.6	9.1	12.8	
CCFL Forward Voltage	VF	25°C	_	256	560	V
CCFL Forward Current	IF	25°C	_	_	5.0	mA

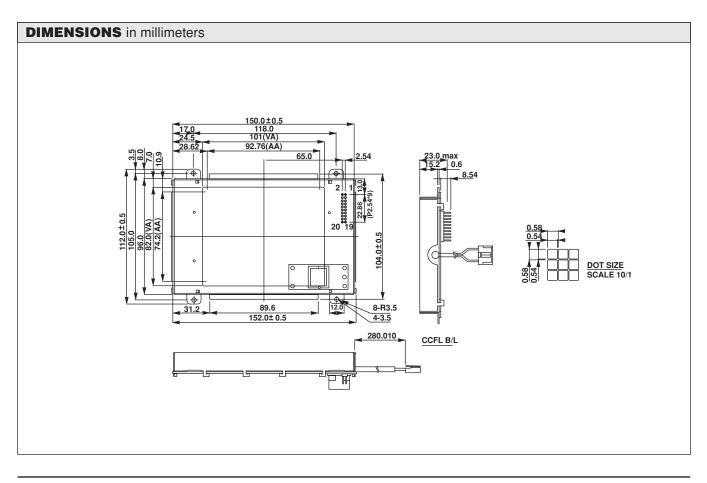
LCD-160G128C

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160 x 128 Dots Graphic LCD



PIN NUMBER	SYMBOL	FUNCTION		
1	FG	Frame Ground		
2	Vss	Power Supply (GND)		
3	Vdd	Power Supply (+ 5V)		
4	Vadj	Contrast Adjustment		
5	Vee	Negative Voltage Output		
6	WR	Data Write		
7	RD	Data Read		
8	CE	Chip Enable		
9	C/D	Command/Data Read/Write		
10	HALT	Clock Operating Stop Signal		
11	Reset	Reset Signal		
12	DB0	Data Bus Line		
13	DB1	Data Bus Line		
14	DB2	Data Bus Line		
15	DB3	Data Bus Line		
16	DB4 Data Bus Line			
17	DB5	Data Bus Line		
18	DB6 Data Bus Line			
19	DB7	7 Data Bus Line		
20	NC	No Connection		





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