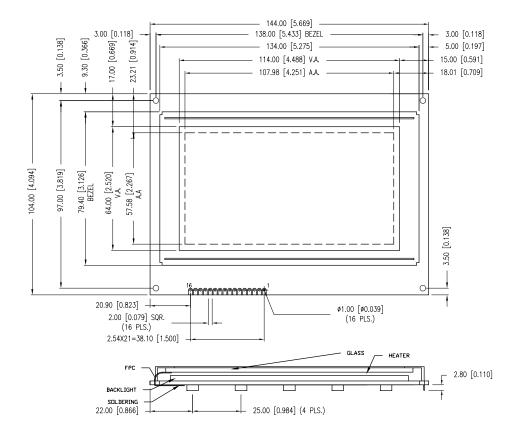
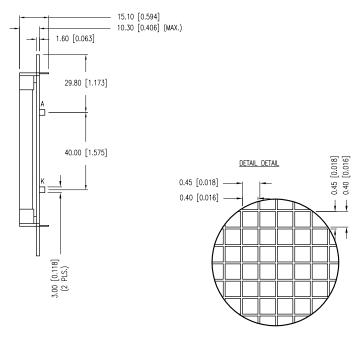
PART NUMBER

LCR-U240128GWF-WH

REV.





*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= $^{+0.00}_{-0.00}$ MAX.= $^{+0.00}_{-0.00}$ MAX.= $^{+0.00}_{-0.00}$ MAX.= $^{+0.00}_{-0.00}$ PRECISION INCONTROLLED DOCUMENT



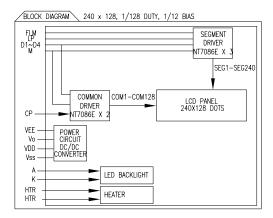
290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 FAX: +1.847.359.6538

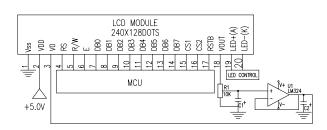
240x128 GRAPHIC LCD MODULE, FSTN,TRANSFLECTIVE, WHITE LED BACKLIGHT, W/HEATER, 6:00 VIEW,VLCD=18.0V.

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

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DIVEDIVINOLLED DUCUMEIVI							
DATE:	04.01.	10	DRAWN BY:	JN			
PAGE:	1 OF	2	CHKD BY:	YA			
SCALE:	NTS		APRVD BY:	ВС			
UNIT: mm [INCH]			Po				





1. R1 IS THE CONTRAST RESISTOR.

2. VOUT=-10.0V

3. ADJUST R1 TO GET GOOD CONTRAST. TYP: VO IS -13.0V.

TEST STANDARD VALUE	
	UNIT
ITEM SYMBOL CONDITION MIN MAX	UNII
SUPPLY VOLTAGE FOR LOGIC VDD-Vss Ta=25°C -0.3 7.0	٧
SUPPLY VOLTAGE FOR LCD DRIVE VLCD - 0 30	٧
INPUT VOLTAGE V _{IN} Ta=25°C -0.3 V ₀₀ +0.3	٧
OPERATING TEMPERATURE Topr W/ HEATER -40 +85	.c
STORAGE TEMPERATURE Tstg W/ HEATER -40 +85	·c

PIN CONFIGURATION					
PIN NO.	PIN NO. SYMBOL FUNCTION				
1	FLM	FIRST LINE MAKER			
2	М	CONTROL SIGNAL FOR AC DRIVING			
3	LP	COMMON DRIVER DATA SHIFT SIGNAL			
4	CP	CLOCK PULSE FOR SEGMENT SHIFT REGISTER			
5	V_{DD}	POWER SUPPLY			
6	Vss	GROUND			
7	VEE	POWER SUPPLY VOLTAGE FOR LCD			
8	D1_SID				
9	D2_DL	DATA BIT INPUT/OUTPUT			
10	D3_DM	DATA DIT INFOT/OUTFOT			
11	D4_DR				
12	Vo	CONTRAST ADJUSTMENT VOLTAGE			
13	LED+ (A)	ANODE OF LED			
14	LED- (K)	CATHODE OF LED			
15	HTR +	POWER SUPPLY FOR HEATER +12V			
16	HTR -	POWER SUPPLY FOR HEATER GND			

ELECTRICAL CHARACTERISTICS V _{DD} =2.7V to 5.5V, T _A =25°C							
ITEM		SYMBOL	CONDITION	STANDARD VALUE			UNIT
IILW			CONDITION	MIN.	TYP.	MAX.	UNII
SUPPLY VO	LTAGE FOR LOGIC	V _{DD} -Vss	-	2.7	5.0	5.5	٧
SUPPLY VO	LTAGE FOR LCD DRIVE	VDD-No	V _{DD} =5V	6.0	18.0	28.0	٧
SUPPLY CL	IRRENT FOR LOGIC	IDD	V _{DD} =5V	-	8.2	13.0	mA
	VOLTAGE	Vf	If=60mA	-	5.0	-	٧
LED	CURRENT	lf	-	-	60	80	mA
BACKLIGHT	POWER CUNSUMPTION	PD	=	-	192	-	mW
DACKLIGHT	LUMINOUS	L	-	-	150	-	cd/m ²
	COLOR	Х	WHITE	.260	-	.330	
	COORDINATE	Y	WHILE	.260	-	.330	
	VOLTAGE	V _{fH}	-	-	12	-	٧
HEATER	RESISTANCE		=	160	210	260	OHM
HEATER	CURRENT	IH	-	40	60	80	mA
	POWER	PH	=	-	0.71	-	W

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İ	SCALE:	NTS	APRVD BY:	ВС	
ľ	UNIT:	mm [INCH]	Po		

Mouser Electronics

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