

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

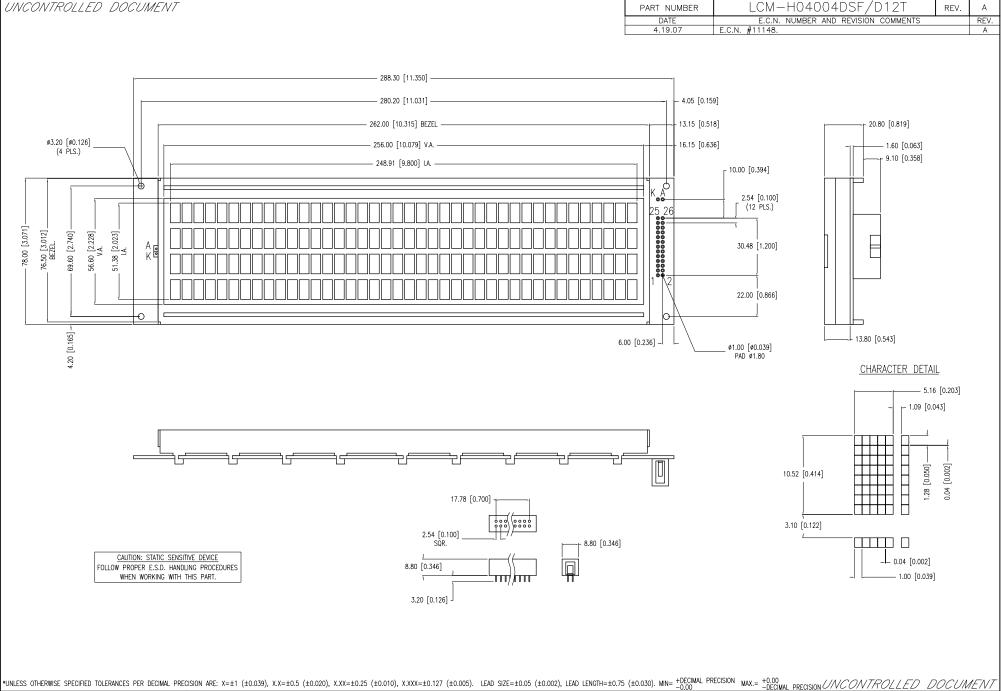
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









Creating LED and LCD Solutions Together

290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 FAX: +1.847.359.6538 WEB: WWW.LUMEX.COM 10.52mm CHARACHTER HEIGHT, 40 \times 4 LCD MODULE,STN, WIDE TEMPERATURE, 12:00 VIEW, TRANSFLECTIVE.

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

CONFIDENTIAL INFORMATION

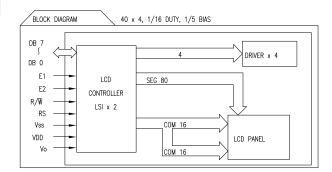
THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.

NOTICOTATION DOCUMENT					
DATE:	01.01.01	DRAWN BY:	JC		
PAGE:	1 OF 2	CHKD BY:	JD		
SCALE:	N/A	APRVD BY:	ΥA		
UNIT:	mm [INCH]	(2)	A		

PART NUMBER	LCM-H04004DSF/D12T	REV.	Α
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
_	SEE PAGE 1		_

ABSOLUTE MAXIMUM RATINGS						
751	SYMBOL	TEST	STANDARD VALUE			
ITEM		CONDITION	MIN	MAX	UNIT	
SUPPLY VOLTAGE FOR LOGIC	16D −Vss	Ta=25*C	-0.3	7.0	٧	
SUPPLY VOLTAGE FOR LCD DRIVE	V∂D -Vo	-	-0.3	12.0	٧	
INPUT VOLTAGE	v _I	Ta=25*C	-0.3	V _{DD}	٧	
OPERATING TEMPERATURE	Topr	LCM-H	-20	70	•c	
STORAGE TEMPERATURE	Tstg	LCM-H	-30	85	•c	

/ PIN C	ONFIGURATION					
PIN NO.	SYMBOL	LEVEL	FUNCTION			
1	А	-	BACKLIGHT ANODE			
2	к	-	BACKLIGHT CATHODE			
3	E2	-	ENABLE 2			
4	Vo	-	CONTRAST ADJUSTMENT			
_		6	H: DATA READ			
5	R/W	H/L	L: DATA WRITE			
6	N/C	-	NO CONNECTION			
7	RS	-	REGISTER SELECT			
8	Vss	-	GROUND			
9	E1	-	ENABLE 1			
10	Vss	-	GROUND			
11	DB0	-	DATA BIT			
12	Vss	-	GROUND			
13	DB1	-	DATA BIT			
14	Vss	-	GROUND			
15	DB2	-	DATA BIT			
16	Vss	-	GROUND			
17	DB3	-	DATA BIT			
18	Vss	-	GROUND			
19	DB4	-	DATA BIT			
20	Vss	-	GROUND			
21	DB5	-	DATA BIT			
22	V _{DD}	-	+5VDC- PARALLEL WITH PIN 24			
23	DB6	-	DATA BIT			
24	v _{DD}	-	+5VDC- PARALLEL WITH PIN 22			
25	DB7	-	DATA BIT			
26	N/C	-	NO CONNECTION			



ELECTRICAL	CHARACTERISTICS		V _{DD} =4.	5V to 5.5V, T =25°C A				
ITCH			0.44504	CONDITION	STANDARD VALUE			
ITEM			SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
SUPPLY VOLTAGE	FOR LOGIC		V _D -Vss	-	4.5	5.0	5.5	٧
SUPPLY CURRENT FOR LOGIC		I DD	Y _{DD} =5∨	-	6.0	10.0	mA	
		HIGH	V IH	_	2.2	-	V DD	٧
INPUT VOLTAGE	INPUT VOLTAGE LOW		V IL	-	0	-	0.6	٧
	HIGH		∨ он	-	2.4	-	-	٧
OUTPUT VOLTAGE LOW		LOW	V OL	-	ı	-	0.4	٧
	VOLTAGE		Vf	If=780mA	1	4.2	4.6	٧
4150	CURRENT		If	-	-	780	1020	mA
*LED BACKLIGHT	POWER CUNSUM	IPTION	PD	-	-	3.3	5	w
	LUMINOUS		L	If=780mA	80	120	-	cd/m ²
	COLOR		-	-	-	-	-	nm

*ONLY APPLIES TO MODULES WITH BACKLIGHT

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.5 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +DECIMAL PRECISION MAX. = +0.00 -DECIMAL PRECISION PRECISION MAX. = +0.00 -DECIMAL P JINICONTROLLED DOCLIMENT



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

10.52mm CHARACHTER HEIGHT, 40 x 4 LCD MODULE,STN, WIDE TEMPERATURE, 12:00 VIEW, TRANSFLECTIVE.

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

CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.

ONDIVEDIVIADELED DUCUMEIVI						
DATE:	01.01.01	DRAWN BY:	JC			
PAGE:	1 OF 2	CHKD BY:	JD			
SCALE:	N/A	APRVD BY:	ΥA			
UNIT:	mm [INCH]	(Po)	A			