


[Product Gallery](#)
[Tech Notes](#)
[Cross-Reference Search](#)
[Product Search](#)
[Online@Lumex](#)
[Home](#)
[What's New](#)
[Sales & Tech Support](#)
[Opportunities](#)
[Corporate Info](#)

24 Characters x 4 Lines

INDEX



WHIP! Image next to part no. indicates cad file.

 Indicates an [Opto Express](#) part.

- [Product Table](#)
- [Part Number Suffix Table](#)
- [Absolute Maximum Ratings](#)
- [Technical Information](#)
- [Electrical Characteristics](#)
- [Options](#)
- [Order Samples](#)
- [Stock/Price Request](#)
- [Sales and Tech Support](#)
- [Drawings](#)

PRODUCT TREE

1. [Product Gallery](#)
2. [LCD Displays & Modules](#)
3. [Character Modules](#)
4. [24 Characters x 4 Lines](#)

Lumex drawings are in PDF format. If you don't have Adobe Acrobat, click on this icon to

[download a free copy](#)



Lumex Part Number	Overall Size with LED Backlight	Overall Size without Backlight	Viewing Area (WxH)	Character Height (WxH)	Dot Size (WxH)	Font	Duty
LCM-S02404DSF WHIP!	119x56.8x14.5		91.95x29.85	2.95x5.55	0.55x0.65	5x8	1/16
LCM-S02404DSR WHIP!		119x56.8x10.0	91.95x29.85	2.95x5.55	0.55x0.65	5x8	1/16
LCM-S02404DTF WHIP!	119x56.8x14.5		91.95x29.85	2.95x5.55	0.55x0.65	5x8	1/16
LCM-S02404DTR WHIP!		119x56.8x10.0	91.95x29.85	2.95x5.55	0.55x0.65	5x8	1/16

Part Number Suffix Table

[\[top of page\]](#)

- DSR = STN, Reflective
- DSF = STN, Transflective (With Backlight)
- DTR = TN, Reflective
- DTF = TN, Transflective (With Backlight)

Absolute Maximum Ratings

[\[top of page\]](#)

Item	Symbol	Test Condition	Standard Value		Unit
			Min	Max	

Supply Voltage for Logic	$V_{DD}-V_{SS}$	$T_a=25^{\circ}\text{C}$	4.5	5.5	V
Supply Voltage for LCD Drive	V_o	$T_a=25^{\circ}\text{C}$	$V_{DD}-13.5\text{V}$	$V_{DD}+0.3$	V
Input Voltage	V_I	$T_a=25^{\circ}\text{C}$	V_{SS}	V_{DD}	V
Operating Temperature	T_{opr}	LCM-S	0	50	$^{\circ}\text{C}$
		LCM-H	-20	70	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	LCM-S	-20	70	$^{\circ}\text{C}$
		LCM-H	-30	85	$^{\circ}\text{C}$

Technical Information

[\[top of page\]](#)

- You can find comprehensive technical information in the [Lumex Tech Notes](#) section. Click [here](#) to get there!

Electrical Characteristics

[\[top of page\]](#)

Item		Symbol	Test Condition	Standard Value			Unit
				Min.	Typ.	Max.	
Supply Voltage for Logic		$V_{DD}-V_{SS}$	-	-	5.0	-	V
Supply Current for Logic		I_{DD}	$V_{DD}=5\text{V}$	-	2.5	5.0	mA
Input Voltage	High	V_{IH}	-	2.2	-	V_{DD}	V
	Low	V_{IL}	-	-0.3	-	0.6	V
Output Voltage	High	V_{OH}	-	2.4	-	-	V
	Low	V_{OL}	-	-	-	0.4	V
*LED Backlight	Voltage	V_f	$I_f=360\text{mA}$	-	4.2	4.6	V
	Current	I_f	-	-	220	-	mA
	Power Consumption	PD	-	-	1512	-	mW
	Luminous	L	$I_f=360\text{mA}$	70	-	-	cd/m^2
	Color	-	-	-	-	-	nm
*Only Applies to Modules with Backlight $V_{DD}=4.5\text{V}$ to 5.5V , $T_A=25^{\circ}\text{C}$							

Options

[\[top of page\]](#)

- High Temperature Module Available

[Home](#) | [What's New](#) | [Product Gallery](#) | [Product Search](#) | [X-Ref Search Engine](#) | [Tech Notes](#) | [Sales and Tech Support](#) | [Corporate Info](#)

290 East Helen Road Palatine, IL 60067 Telephone: (847) 359-2790 Facsimile: (847) 359-8904 E-mail us at sales@lumex.com

© 1997-2001 Lumex, Inc.