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# 16 Characters x 4 Lines

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## PRODUCT TREE

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



Indicates an [Opto Express](#) part.

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

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Lumex Part Number	Overall Size with LED Backlight	Overall Size without Backlight	Viewing Area (WxH)	Character Height (WxH)	Dot Size (WxH)	Font	Duty
LCM-S01604DSF <b>WHIP!</b>	87x60x12.7		65x25.6	2.95x4.65	0.55x0.55	5x8	1/16
LCM-S01604DSR <b>WHIP!</b>		87x60x8.8	65x25.6	2.95x4.65	0.55x0.55	5x8	1/16
LCM-S01604DTF <b>WHIP!</b>	87x60x12.7		65x25.6	2.95x4.65	0.55x0.55	5x8	1/16
LCM-S01604DTR <b>WHIP!</b>		87x60x8.8	65x25.6	2.95x4.65	0.55x0.55	5x8	1/16

## Part Number Suffix Table

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

## Absolute Maximum Ratings

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Item	Symbol	Test Condition	Standard Value		Unit
			Min	Max	

<b>Supply Voltage for Logic</b>	$V_{DD}$ - $V_{SS}$	$T_a=25^\circ\text{C}$	4.7	5.3	V
<b>Supply Voltage for LCD Drive</b>	$V_{DD}-V_o$	-	4.2@50° C	4.8@50° C	V
<b>Input Voltage</b>	$V_I$	$T_a=25^\circ\text{C}$	$V_{SS}$	$V_{DD}$	V
<b>Operating Temperature</b>	$T_{opr}$	LCM-S	0	50	$^\circ\text{C}$
		LCM-H	-20	70	$^\circ\text{C}$
<b>Storage Temperature</b>	$T_{stg}$	LCM-S	-20	70	$^\circ\text{C}$
		LCM-H	-30	85	$^\circ\text{C}$

## Technical Information

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

## Electrical Characteristics

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Item	Symbol	Test Condition	Standard Value			Unit	
			Min.	Typ.	Max.		
<b>Supply Voltage for Logic</b>	$V_{DD}$ - $V_{SS}$	-	-	5.0	-	V	
<b>Supply Current for Logic</b>	$I_{DD}$	$V_{DD}=5\text{V}$	-	2.0	3.0	mA	
<b>Input Voltage</b>	<b>High</b>	$V_{IH}$	-	2.2	-	4.7	V
	<b>Low</b>	$V_{IL}$	-	0	-	0.6	V
<b>Output Voltage</b>	<b>High</b>	$V_{OH}$	-	2.4	-	-	V
	<b>Low</b>	$V_{OL}$	-	-	-	0.4	V
<b>*LED Backlight</b>	<b>Voltage</b>	$V_f$	$I_f=260\text{mA}$	-	4.2	4.5	V
	<b>Current</b>	$I_f$	-	-	260	400	mA
	<b>Power Consumption</b>	PD	-	-	1092	-	mW
	<b>Luminous</b>	L	$I_f=260\text{mA}$	70	-	-	cd/m <sup>2</sup>
	<b>Color</b>	-	-	-	-	-	nm
*Only Applies to Modules with Backlight $V_{DD}=4.7\text{V}$ to $5.3\text{V}$ , $T_A=25^\circ\text{C}$							

## Options

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- High Temperature Module Available

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