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## Type C Overall Size (mm): 85x30 14pin through-hole left side connection

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

 Indicates an [Opto Express](#) part.

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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-S01602DSF/C <b>WHIP!</b>	85x30x12.7		66x16	2.96x5.56	0.56x0.66	5x8	1/16
LCM-S01602DSR/C <b>WHIP!</b>		85x30x8.8	66x16	2.96x5.56	0.56x0.66	5x8	1/16
LCM-S01602DTF/C <b>WHIP!</b>	85x30x12.7		66x16	2.96x5.56	0.56x0.66	5x8	1/16
LCM-S01602DTR/C <b>WHIP!</b>		85x30x8.8	66x16	2.96x5.56	0.56x0.66	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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	Test	Standard Value	

Item	Symbol	Condition	Min	Max	Unit
Supply Voltage for Logic	$V_{DD}$ - $V_{SS}$	$T_a=25^\circ\text{C}$	4.7	5.3	V
Supply Voltage for LCD Drive	$V_{DD}-V_o$	-	4.2@50° C	4.8@50° C	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

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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.		
Supply Voltage for Logic	$V_{DD}$ - $V_{SS}$	-	-	5.0	-	V	
Supply Current for Logic	$I_{DD}$	$V_{DD}=5\text{V}$	-	2.0	3.0	mA	
Input Voltage	High	$V_{IH}$	-	2.2	-	$V_{DD}$	
	Low	$V_{IL}$	-	0	-	0.6	
Output Voltage	High	$V_{OH}$	-	2.4	-	V	
	Low	$V_{OL}$	-	-	0.4	V	
*LED Backlight	Voltage	$V_f$	$I_f=160\text{mA}$	-	4.2	4.6	V
	Current	$I_f$	-	-	160	-	mA
	Power Consumption	PD	-	-	656	-	mW
	Luminous	L	$I_f=160\text{mA}$	70	-	-	$\text{cd/m}^2$
	Color	-	-	-	-	-	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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