

# OPTREX LCD Modules



This product is RoHS compliant.



LCD Total Solution Provider

For more Optrex Graphic Modules and Optrex Character Modules, please see our full Optrex offering at [mouser.com/optrex](http://mouser.com/optrex)

## LCD TFT DISPLAYS

Optrex's small size TFT-LCD displays provide exceptionally high contrast and color saturation, great enhanced image quality for both indoor and outdoor applications. The transreflective displays have a unique pixel structure, which makes it viewable even under direct sunlight. All the small size TFT-LCDs achieve low power consumption with white LED backlights.



### Applications:

- Industrial mobile commuting devices
- Handheld testing equipments
- Medical Devices
- POS and Kiosk machines

### Specifications:

- 5.0" Diagonal Module Size
- Display Mode: Transmissive
- Display Format: 800x480
- 24-bit RGB interface
- White LED backlight
- Module Size: 118.5mm x 77.8mm x 4.9mm

MOUSER STOCK NO.	Optrex Part No.	Power Consumption	Contrast Ratio	Brightness (Cd/m <sup>2</sup> )	Viewing Angle (Deg.)	Touch Screen	Active Matrix	Price Each	
								1	5
<a href="#">805-T55382GD050JUL</a>	T-55382GD050JU-LW-A-ABN	0.9W	500:1	320	65/65/45/65	Yes	TN	129.33	129.33
<a href="#">805-T55382GD050JLW</a>	T-55382GD050JU-LW-A-ABN	0.9W	450:1	420	65/65/45/65	No	TN	104.16	104.16
<a href="#">805-T55423GD050JL</a>	T-55423GD050JU-LW-A-ABN	0.9W	500:1	200	85/85/85/85	Yes	IPS	136.46	136.46
<a href="#">805-T55423GD050WA</a>	T-55423GD050JU-LW-A-ABN	0.9W	600:1	300	85/85/85/85	No	IPS	112.85	112.85
<a href="#">805-55583GD050JLWAAA</a>	T-55583GD050JU-LW-A-ABN	1.9W	900:1	800	85/85/85/85	No	IPS	193.33	181.25

## CHARACTER LCD MODULES

Optrex offers the broadest range of monochrome character LCD modules in a wide range of dot pixel formats and color/background combinations in industry standard configurations. High contrast, wide operating temperature range, low operating current, and more luminance per watt. Positive (transflective) types and negative (transmissive) types utilizing Optrex's High Performance Color technology are available.

New Highly Reflective models feature crisp, clear black characters on a silvery, "Winter White" background, providing exceptional clarity, sharpness and readability in all types of ambient lighting conditions. If you need a monochrome character LCD for your information display, Optrex has the right one for your application.



### Transmissive Character Displays

MOUSER STOCK NO.	Optrex Part No.	Character Format	LCD Mode	Dot Format	Outline Dimension WxHxD (mm)	Viewing Area	Backlight	Luminance *	Contrast Ratio	Operating Temp (°C)	Price Each			
											1	5	10	100
<a href="#">805-51848NFQJLWAAAN</a>	C-51848NFQJ-LW-AAAN	16 x 2	Black / White	5x8	122x44x14.6	99.6x24.5	White LED	70	60:1	-20 to 70	29.57	26.62	23.84	22.81
<a href="#">805-C51505NFQJAJN</a>	C-51505NFQJ-LB-AJN	20 x 2	Neutral / Blue	5x8	116x37x15.6	83x18.6	Blue LED	38	80:1	-20 to 70	23.50	21.15	18.94	18.13
<a href="#">805-51505NFQJAJA</a>	C-51505NFQJ-LW-ALN	20 x 2	Color	5x8	116x37x15.6	83x18.6	White LED	125	80:1	-20 to 70	23.89	21.50	19.25	18.43
<a href="#">805-51847NFQJLWAAAN</a>	C-51847NFQJ-LW-AAAN	20 x 4	Black / White	5x8	98.5x61x15.6	76x25.2	White LED	70	60:1	-20 to 70	27.20	24.48	21.93	20.99
<a href="#">805-51847NFQJLGACN</a>	C-51847NFQJ-LG-ACN	20 x 4	Black / Green	5x8	98.5x61x15.6	76x25.2	Green LED	70	60:1	-20 to 70	30.91	27.82	24.91	23.84
<a href="#">805-51850NFQJLGACN</a>	C-51850NFQJ-LG-ACN	40 x 2	Black / Green	5x8	182x34.5x15.1	153.5x17.5	Green LED	70	60:1	-20 to 70	40.25	36.22	32.44	31.05
<a href="#">805-51849NFQJLWAAAN</a>	C-51849NFQJ-LW-AAAN	40 x 4	Black / White	5x8	190x54x14.6	147x29.5	White LED	70	60:1	-20 to 70	59.97	53.97	48.33	46.26

### Transflective Character Displays

MOUSER STOCK NO.	Optrex Part No.	Character Format	LCD Mode	Dot Format	Outline Dimension WxHxD (mm)	Viewing Area	Backlight	Luminance *	Contrast Ratio	Operating Temp (°C)	Price Each			
											1	5	10	100
<a href="#">805-51848NFJSLWADN</a>	C-51848NFJ-SLW-ADN	16 x 2	Winter White/Black †	5x8	122x44x14.6	99.6x24.5	LED	40	5:1	-20 to 70	23.15	20.83	18.66	17.86
<a href="#">805-51505NFJSLWAIN</a>	C-51505NFJ-SLW-AJN	20 x 2	Black / White	5x8	116x37x15.6	83x18.6	White LED	125	5:1	-20 to 70	20.83	18.75	16.79	16.07
<a href="#">805-51847NFJSLWADN</a>	C-51847NFJ-SLW-ADN	20 x 4	Winter White/Black †	5x8	98.5x61x15.6	76x25.2	LED	40	5:1	-20 to 70	25.97	23.37	20.93	20.03
<a href="#">805-51850NFJSLWADN</a>	C-51850NFJ-SLW-ADN	40 x 2	Winter White/Black †	5x8	182x34.5x15.1	153.5x17.5	LED	40	5:1	-20 to 70	37.93	34.14	30.57	29.26
<a href="#">805-51849NFJSLWADN</a>	C-51849NFJ-SLW-ADN	40 x 4	Winter White/Black †	5x8	190x54x14.6	147x29.5	LED	40	5:1	-20 to 70	53.08	47.77	42.78	40.95

\* At backlight surface

† HR-Highly Reflective Background

## LCD TOOLKITS™

Optrex, the LCD Total Solution Provider, has introduced its new LCD ToolKIT™, which provides a convenient kit solution that speeds design and saves engineering and procurement time for developers of products using flat panel displays. Optrex's LCD ToolKIT™ contains everything you need to operate the included TFT display right out of the box. Supports VGA, composite video, and S-video interfaces. Included in the LCD ToolKIT are: LCD panel; TFT controller board with on-screen display board; backlight inverter board; inverter power cable; 12V DC power supply; power supply AC line cord; VGA (analog RGB) cable; 3-ft. video input cable; and a Quick Set-up and document CD-ROM. IT'S ALL IN THE BOX!



Kits support VGA (Analog RGB), composite video, and S-video interfaces

### Kit Includes:

- TFT Panel
- TFT Controller Board with On-Screen Display (OSD) Board
- Backlight Inverter Board
- Inverter Power Cable
- Power Supply AC Line Cord
- VGA (Analog RGB) Cable
- 3 ft. Video Input Cable (S-Video/Composite)
- LCD-to-controller-board interface cable
- CD-ROM with Quick Set-Up Guide and controller manual

MOUSER STOCK NO.	Optrex Part No.	LCD Size	Resolution	Price Each
<a href="#">805-TK104V01</a>	TK104V01	10.4"	640 x 480 VGA	722.65

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