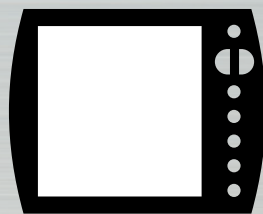
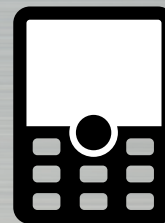
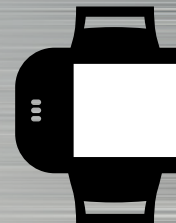




2016 PRODUCT LINE-UP

The Sharp Memory LCD Suite



Memory in every pixel allows for rich content on a small display – with ultra-low power consumption.

SHARPMEMORYLCD.COM

Memory LCD Advantages



Ultra-Low Power Consumption

- No data refresh for still images
- Reflective (may be backlit)

Excellent Display Quality

- High resolution/contrast/reflectivity
- Readable in any lighting condition
- Wide/symmetrical viewing angle

Thin Profile

- Smaller finished products

Simple Interface/Connectivity

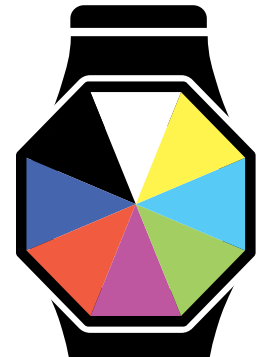
- 3-wire serial interface
- Single power supply
- Few peripherals

Fast Image Refresh Time

- Scrolling letters
- Image capability (no ghosting)

Resistance to Vibration

- Up to 1.5 G - 2 G



0.96-inch (diameter) Memory LCD

HR-TFT Octagonal Transflective Display

Part Number:	LS010B7DH05
Pixel Format:	192 × 192
Outline Dimensions (mm)	29.7 (W) × 30.5 (H) × 1.645 (D)
Active Area Diameter (mm)	Ø 24.384
Dot Pitch (mm)	0.127 × 0.127
Input Voltage	3 V
Interface Type	3 V Serial
Reflectance	16.4%
Power Consumption*	25 µW Static, 40 µW Dynamic
Connector	FPC
Operating Temp. Range	-20 to +70°C

1.03-inch (diagonal) Memory LCD

HR-TFT Square Transflective Display

Part Number	LS010B7DH04
Pixel Format	128 × 128
Outline Dimensions (mm)	22.12 × 25.82 × 0.745
Active Area Diameter (mm)	18.56 × 18.56
Dot Pitch (mm)	0.145 × 0.145
Input Voltage	3 V
Interface Type	3 V Serial
Reflectance	16%
Power Consumption*	15 µW Static, 45 µW Dynamic
Connector	FPC
Operating Temp. Range	-20 to +70°C

*Typical

1.17-inch (diagonal) Memory LCD

HR-TFT Landscape Transflective Display

Part Number	LS012B7DD01
Pixel Format	184 × 38
Outline Dimensions (mm)	35.1 × 11.0 × 0.741
Active Area (mm)	29.072 × 6.004
Dot Pitch (mm)	0.158 × 0.158
Input Voltage	3 V
Interface Type	3 V Serial
Reflectance	15%
Power Consumption*	6 μW Static, 50 μW Dynamic
Connector	FPC
Operating Temp. Range	-20 to +70°

1.26-inch (diagonal) Memory LCD

HR-TFT Portrait Transflective Display

Part Number	LS013B7DH05
Pixel Format	144 × 168
Outline Dimensions (mm)	24.68 × 30.0 × 0.745
Active Area (mm)	20.88 × 24.36
Dot Pitch (mm)	0.145 × 0.145
Input Voltage	3 V
Interface Type	3 V Serial
Reflectance	14.5%
Power Consumption*	25 μW Static, 35 μW Dynamic
Connector	FPC
Operating Temp. Range	-20 to +70°C

*Typical

1.28-inch (diagonal) Memory LCD

HR-TFT Square Transflective Display

Part Number	LS013B7DH03
Pixel Format	128 × 128
Outline Dimensions (mm)	26.6 × 30.3 × 0.741
Active Area (mm)	23.04 × 23.04
Dot Pitch (mm)	0.18 × 0.18
Input Voltage	3 V
Interface Type	3 V Serial
Reflectance	18%
Power Consumption*	12 μW Static, 50 μW Dynamic
Connector	FPC
Operating Temp. Range	-20 to +70°C

1.33-inch (diagonal) Color Memory LCD

8-Color Normally White
HR-TFT Transflective Display

Part Number	LS013B7DH06
Pixel Format	128 × RGB × 128, 8-color
Outline Dimensions (mm)	26.82 × 31.3 × 0.745
Active Area (mm)	23.808 × 23.808
Dot Pitch (mm)	0.062 × 0.186
Input Voltage	5 V
Interface Type	3 V Serial
Reflectance	8.5%
Power Consumption*	25 μW Static, 60 μW Dynamic
Connector	FPC
Operating Temp. Range	-20 to +70°C
Contrast	24:1
NTSC	6%

*Typical

1.33-inch (diagonal) Color Memory LCD

8-Color Normally Black
HR-TFT Transflective Display

Part Number	LS013B7DH0X
Pixel Format	128 × RGB × 128, 8-color
Outline Dimensions (mm)	26.82 × 31.3 × 0.745
Active Area (mm)	23.808 × 23.808
Dot Pitch (mm)	0.062 × 0.186
Input Voltage	5 V
Interface Type	3 V Serial
Reflectance	18%
Power Consumption*	25 μW Static, 60 μW Dynamic
Connector	FPC
Operating Temp. Range	-20 to +70°C
Contrast	30:1
NTSC	22%

2.7-inch (diagonal) Memory LCD

HR-TFT Landscape Transflective Display

Part Number	LS027B7DH01A
Pixel Format	400 × 240
Outline Dimensions (mm)	62.8 × 42.82 × 1.64
Active Area (mm)	58.8 × 35.28
Dot Pitch (mm)	0.147 × 0.147
Input Voltage	5 V
Interface Type	3 V Serial
Reflectance	17.5%
Power Consumption*	50 μW Static, 175 μW Dynamic
Connector	FPC
Operating Temp. Range	-20 to +70°C

*Typical

3.16-inch (diagonal) Memory LCD

HR-TFT Portrait Transflective Display

Part Number	LS032B7DD02
Pixel Format	336 × 536
Outline Dimensions (mm)	47.02 × 76.0 × 0.705
Active Area Diameter (mm)	46.672 × 68.072
Dot Pitch (mm)	0.127 × 0.127
Input Voltage	5 V
Interface Type	3 V Serial
Reflectance	TBD
Power Consumption*	40 μW Static, 250 μW Dynamic
Connector	FPC
Operating Temp. Range	-20 to +70°C

4.4-inch (diagonal) Memory LCD

HR-TFT Landscape Transflective Display

Part Number	LS044Q7DH01
Pixel Format	320 × 240
Outline Dimensions (mm)	94.8 × 75.2 × 1.64
Active Area (mm)	89.6 × 67.2
Dot Pitch (mm)	0.280 × 0.280
Input Voltage	5 V
Interface Type	3 V Serial
Reflectance	18%
Power Consumption*	100 μW Static, 600 μW Dynamic
Connector	FPC
Operating Temp. Range	-20 to +70°C

*Typical

Sharp technical support includes dedicated experts in your region who are ready for your call. Our mission is to help you reduce development time and get to market more quickly. Have questions? Sharp answers.



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