



**Displays**

# Short Form Catalog 2009

## Liquid Crystal Displays

### Full Line of Displays:

p-Si and a-Si Technology  
Small TFT Color Monitors  
Large and Medium TFT Color Modules  
Intelligent LCD Graphic Displays  
Intelligent LCD Alphanumeric Displays  
Panel/Segment Displays  
Film Super Twist Nematic  
Super Twist Nematic

### Precision Custom Enhancements:

Anti-Reflective Films  
High-Bright Backlights  
White LED Backlights  
Heaters  
Interface Cards  
Inverters  
Cabling

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## Color Displays - (Prototype Kits Available for All Displays)

**Color TFT Monitors** (includes CCFL or LED backlight, inverter and control circuitry; \*Control circuitry includes integrated DC-AC inverter to drive CCFL backlight.)

Part Number	Screen Diagonal (inches)	Pixel Count W x H	Brightness Nits (cd/m <sup>2</sup> )	Pixel Pitch (mm) W x H	Active Area (mm) W x H	Overall Dimension (mm) W x H x D	Driving Voltage (V)	Input Signal
ANDpSi020TD-LED	2.0	320 x 240	250	0.053 x 0.159	40.67 x 30.48	46.1 x 40.96 x 2.53	12.0	NTSC, PAL
AND-TFT-25XS-LED	2.5	160 x 234	250	0.1025 x 0.163	49.68 x 37.44	60.6 x 48.4 x 3.45	12.0	NTSC, PAL
ANDpSi025TD-LED	2.5	320 x 240	250	0.053 x 0.159	50.91 x 38.16	61.7 x 44.5 x 2.68	12.0	NTSC, PAL
AND-TFT-35PA	3.5	160 x 234	250	0.149 x 0.225	71.6 x 52.7	84 x 69 x 7	12.0*	NTSC, PAL
AND-TFT-35XS-LED	3.5	320 x 234	250	0.074 x 0.225	71.6 x 52.65	83.5 x 63.1 x 3.6	12.0	NTSC, PAL
AND-TFT-35PA-4HB	3.5	160 x 234	1,500	0.149 x 0.225	71.6 x 52.7	84 x 69 x 9	12.0	NTSC, PAL
AND-TFT-35VX	3.5	640 x 480	210	0.1125 x 0.1095	72 x 52.56	84.25 x 65.40 x 3.45	5.0	VGA, NTSC, PAL
AND-TFT-5PA	5.0	320 x 234	400	0.107 x 0.319	102.7 x 74.5	127 x 93 x 13	12.0*	NTSC/PAL
AND-TFT-5PA-DHB	5.0	320 x 234	500	0.32 x 0.32	102.7 x 74.5	127 x 93 x 13	12.0*	NTSC/PAL
AND-TFT-5TS	5.0	320 x 234	350	0.107 x 0.319	102.7 x 74.5	119 x 91 x 7.5	12.0	NTSC/PAL, VGA
AND-TFT-5TS-DHB	5.0	320 x 234	500	0.107 x 0.319	102.7 x 74.5	119 x 91 x 7.5	12.0	NTSC/PAL, VGA
AND-TFT-5VX	5.0	640 x 480	400	0.156 x 0.159	74.88 x 101.76	91.4 x 119.3 x 7.9	12.0	VGA, NTSC, PAL
AND-TFT-5VX-4HB	5.0	640 x 480	1,000	0.156 x 0.159	74.88 x 101.76	91.4 x 119.3 x 7.9	12.0	VGA, NTSC, PAL
AND-TFT-64PA	6.4	320 x 234	330	0.135 X 0.416	129.6 x 97.3	156.3 x 120 x 14.3	12.0*	NTSC/PAL
AND-TFT-64PA-DHB	6.4	320 x 234	500	0.135 x 0.416	129.6 x 97.3	156.3 x 120 x 14.3	12.0*	NTSC/PAL
AND-TFT-7WX	7.0	800 x 480	400	0.190 x 0.190	152.4 x 91.44	165 x 104 x 6.2	12.0	NTSC/PAL
AND-TFT-8PA	8.0	480 x 468	350	0.112 x 0.252	161.28x117.936	172.4 x 132.0 x 6.6	12.0	NTSC/PAL

**Color TFT Modules** (includes CCFL backlight or LED backlight)

Part Number	Screen Diagonal (inches)	Pixel Count <sup>(1)</sup> W x H	Brightness Nits (cd/m <sup>2</sup> )	Pixel Pitch (mm) W x H	Active Area (mm) W x H	Overall Dimension (mm) W x H x D	Driving Voltage (V)	Input Signal <sup>(2)</sup>
<b>Poly-Silicon Color TFT Displays</b> (denoted in part number as <b>pSi</b> meaning a higher definition and more durable than amorphous silicon)								
ANDpSi056ET0S-HB	5.6	1024 x 600	250	0.120 x 0.120	122.88 x 72	141.8 x 84.4 x 7.5	3.3	LVDS 6-bit interface
ANDpSi08C351-HB	8.4	800 x 600	350	0.213 x 0.213	170.4 x 127.8	200 x 150 x 12	3.3	Digital 6-bit interface
ANDpSi08C270F-HB	8.4	800 x 600	400	0.213 x 0.213	170.4 x 127.8	200 x 150 x 12	3.3	LVDS 6-bit interface
ANDpSi089C362S	8.9	1024 x 600	250	0.1905 x 0.1890	195.07 x 113.40	219.5 x 134.5 x 5.2	3.3	LVDS 6-bit interface
ANDpSi089C362S-4HB	8.9	1024 x 600	800	0.1605 x 0.1890	195.07 x 113.40	219.5 x 134.5 x 8.4	3.3	LVDS 6-bit interface
ANDpSi104EA5S-HB	10.4	1024 x 768	180	0.2055 x 0.2055	210.4 x 157.8	242 x 172 x 6	3.3	LVDS 6-bit interface
ANDpSi104EA5S-4HB	10.4	1024 x 768	1,000	0.2055 x 0.2055	210.4 x 157.8	238 x 173 x 15	3.3	LVDS 6-bit interface
ANDpSi104AC36100-HB	10.4	1024 x 600	400	0.2055 x .02055	210.4 x 157.8	242 x 185 x 13.4	3.3	LVDS 6-bit interface
ANDpSi121GA0S-HB	12.1	1024 x 768	350	0.24 x 0.24	245.8 x 184.3	278 x 209 x 12	3.3	LVDS 6-bit interface
<b>Amorphous-Silicon Color TFT Displays</b>								
AND050VL-LED	5.0	640 x 480	450	0.159 x 0.156	101.76 x 74.88	120.7 x 92.8 x 12.5	5.0	LVDS 6-bit interface
AND064VT4N1-HB	6.4	640 x 480	400	0.203 x 0.203	129.6 x 97.4	175 x 127 x 13	5.0	Digital 6-bit interface
AND064VT5N1-VVHB	6.4	640 x 480	350	0.203 x 0.203	129.6 x 97.4	175 x 127 x 13	5.0	Digital 6-bit interface
AND065A041F-HB2	6.5	640 x 480	400	0.207 x 0.207	132.48 x 99.36	153 x 118 x 11	3.3	Digital 6-bit interface
AND10C210-HB	10.4	640 x 480	400	0.33 x 0.33	211.2 x 158.4	265 x 189 x 14	5.0	Digital 6-bit interface
AND104A261F-HB	10.4	640 x 480	400	0.33 x 0.33	211.2 x 158.4	265 x 189 x 11.4	5.0	Digital 6-bit interface
AND104A261G-4HB	10.4	640 x 480	1,000	0.33 x 0.33	211.2 x 158.4	265 x 189 x 11.4	5.0	Digital 6-bit interface
AND10C104SLD-HB	10.4	800 x 600	350	0.264 x 0.265	211.2 x 158.4	243 x 185.1 x 10.5	3.3	LVDS 6-bit interface

**Note 1:** VGA =640 x 480 resolution; SVGA =800 x 600 resolution; XGA =1024 x 768 resolution **Note 2:**6bit=256K colors 8bit=16.2M colors **Note 3:** Wide Viewing angle display



## Monochromatic Displays

### Intelligent Graphic Displays (STN, FSTN, BST)

See Notes on top of page 4

Part Number	Pixel Count W x H	Pixel Pitch (mm) W x H	Viewing Area (mm) W x H	Overall Dimension (mm) W x H x D	Driving Voltage (V)	Built-In Controller	Backlight		Contrast Ratio
							-30	-EL	
AND1021ST-EO	120 x 64	0.56 x 0.60	62.5 x 43.5	85 x 70 x 20	+5/-8.5	T6963C	-	EL	4:1
AND1021ST	120 x 64	0.56 x 0.60	62.5 x 43.5	85 x 70 x 20	+5/-8.5	T6963C	-	-	4:1
AND1264GST-LED	128 x 64	0.52 x 0.52	72.0 x 40.0	87 x 70 x 12.7	+5	T6963C	LED		7:1
AND1391ST-EO	128 x 128	0.43 x 0.43	62 x 62	84.4 x 100 x 14	+5/-14.5	T6963C	-	EL	4:1
AND1391ST	128 x 128	0.43 x 0.43	62 x 62	84.4 x 100 x 14	+5/-14.5	T6963C	-	-	4:1
AND1013ST-EO	160 x 128	0.60 x 0.60	101 x 82	129 x 104.5 x 14	+5/-8.5	T6963C	-	EL	4:1
AND1013ST-30	160 x 128	0.60 x 0.60	101 x 82	129 x 104.5 x 14	+5/-8.5	T6963C	-30	-	4:1
AND711AST-EO	240 x 64	0.53 x 0.53	132 x 39	180 x 65 x 12	+5/-8.5	T6963C	-	EL	4:1
AND711AST-30	240 x 64	0.53 x 0.53	132 x 39	180 x 65 x 12	+5/-8.5	T6963C	-30	-	4:1
AND1781BST	240 x 64	0.53 x 0.53	127.2 x 33.9	180 x 70 x 14	+5/-12.2	T6963C	CCFL		6:1
AND1781BST2	240 x 64	0.53 x 0.53	127.16 x 33.9	180 x 65 x 9.7	+5/-12.2	T6963C	CCFL		6:1
AND1781MST	240 x 64	0.53 x 0.53	127.2 x 33.9	180 x 70 x 14	+5/-13.0	T6963C	CCFL		12:1
AND1741MST	240 x 128	0.50 x 0.50	126 x 70	170 x 106 x 14	+5/-18.5	T6963C	CCFL		12:1
AND1743FST-T	240 x 128	0.50 x 0.50	132 x 76	170 x 102 x 14	+5/-19.5	T6963C	CCFL		6:1
AND1742MST2	240 x 128	0.51 x 0.51	134 x 76	180 x 110 x 15.1	+5	RAIO	CCFL		6:1
AND3222MST2	320 X 240	0.36 X 0.36	120 X 92	148 X 120 X 20.5	+5/-22.0	SED1330	CCFL		6:1

### Intelligent Alphanumeric STN Displays

Part Number	Lines x Characters	Character Size (mm) W x H	Viewing Area (mm) W x H	Outline Dimensions (mm) W x H x D	Driving Voltage (V)	Built-in Controller	Backlight
AND081GST	1 x 8	4.45 x 8.35	48.0 x 13.0	60 x 36 x 10	5	HD44780	-
AND081GST-LED	1 x 8	4.45 x 8.35	48.0 x 13.0	60 x 36 x 13	5	HD44780	LED
AND082GST	2 x 8	2.96 x 5.56	38.0 x 16.0	58 x 32 x 8.4	5	HD44780	-
AND082GST-LED	2 x 8	2.96 x 5.56	38.0 x 16.0	58 x 32 x 12.8	5	HD44780	LED
AND671GST	1 x 16	3.07 x 6.56	64.5 x 13.8	80 x 36 x 11.3	5	HD44780	-
AND671GST-LED	1 x 16	3.07 x 6.56	64.5 x 13.8	80 x 36 x 16	5	HD44780	LED
AND471GST	2 x 16	4.84 x 9.66	99 x 24	122 x 44 x 11.3	5	HD44780	-
AND471GST-LED	2 x 16	4.84 x 9.66	99 x 24	122 x 44 x 15.8	5	HD44780	LED
AND481GST	2 x 16	2.78 x 4.89	62 x 16	85 x 30 x 10.1	5	HD44780	-
AND481GST-LED	2 x 16	2.78 x 4.89	62 x 16	85 x 30 x 15.8	5	HD44780	LED
AND491GST	2 x 16	2.95 x 4.35	64.5 x 13.8	80 x 36 x 11.3	5	HD44780	-
AND491GST-LED	2 x 16	2.95 x 4.35	64.5 x 13.8	80 x 36 x 15.8	5	HD44780	LED
AND731GST	4 x 16	2.95 x 4.75	62 x 25.6	87 x 60 x 8.8	5	HD44780	-
AND731GST-LED	4 x 16	2.95 x 4.75	62 x 25.6	87 x 60 x 12.7	5	HD44780	LED
AND501GST	2 x 20	3.2 x 5.55	83 x 18.6	116 x 37 x 11.3	5	HD44780	-
AND501GST-LED	2 x 20	3.2 x 5.55	83 x 18.6	116 x 37 x 15.8	5	HD44780	LED
AND501WGST	2 x 20	3.2 x 5.55	83 x 18.6	116 x 37 x 15.8	5	HD44780	-
AND501WGST-LED	2 x 20	3.2 x 5.55	83 x 18.6	116 x 37 x 15.8	5	HD44780	LED
AND721GST	4 x 20	2.95 x 4.75	76 x 25.2	98 x 60 x 12	5	HD44780	-
AND721GST-LED	4 x 20	2.95 x 4.75	76 x 25.2	98 x 60 x 16	5	HD44780	LED
AND771GST	2 x 24	3.2 x 5.50	94.5 x 17.8	118 x 36 x 11.3	5	HD44780	-
AND771GST-LED	2 x 24	3.2 x 5.50	94.5 x 17.8	118 x 36 x 15.8	5	HD44780	LED
AND591GST	2 x 40	3.2 x 5.55	154 x 15.3	182 x 33.5 x 8.8	5	HD44780	-
AND591GST-LED	2 x 40	3.2 x 5.55	154 x 15.3	182 x 33.5 x 12.7	5	HD44780	LED
AND791GST	4 x 40	2.78 x 4.89	149 x 29.5	190 x 54 x 8.8	5	HD44780	-
AND791GST-LED	4 x 40	2.78 x 4.89	149 x 29.5	190 x 54 x 13	5	HD44780	LED

+ All use Hitachi HD44780 controllers or equiv. + All displays have 6:00 viewing angle + For extended temp. & electroluminescent backlight options, contact factory



### Notes for the Intelligent Graphic Displays

- “30” means that the LCD has a transreflective reflector. Part would be ordered with a “-30” suffix. (i.e. AND1013ST-30)
- “EO” means that an electroluminescent panel is installed in the LCD. Order with the “EO” suffix. (i.e. AND1013ST-EO)
- CCFL means that a cold cathode fluorescent lamp is installed in the module
- “MST” means Film Super Twist Nematic (FSTN)
- “BST” means Blue Mode Super Twist Nematic LCD

### LCD – Panel/Segment Displays (Wide Temperature & High Humidity)

Part Number	Display Font	Digit Height in Inches	Package Dimensions in Inches (Length x Width)
FE1901W	.8.8	0.5	1.1 x 1.2
FE0201W	≡1.8:8.8	0.5	2.0 x 1.2
FE0203W	<sup>LO BAI</sup> ≡1.8:8.8	0.5	2.0 x 1.2
FE0202W	8.8:8.8	0.5	2.0 x 1.2
FE0501W	≡1.8:8.8	0.7	2.75 x 1.5
FE0502W	8.8:8.8	0.7	2.75 x 1.5
FE0206W	<sup>LO BAI</sup> ≡1.8:8:8.8	0.5	2.0 x 1.2
FE0208W	8:8:8.8.8	0.4	2.0 x 1.2
FE0401W	.8.8:8.8:8.8	0.5	2.75 x 1.2
FE0601W	.8.8:8.8:8.8	0.7	3.7 x 1.5
FE1001W	8.8:8.8:8.8:8.8	0.5	3.7 x 1.2

#### Backlight viewing mode designation is:

- DU for “reflective” surface to reflect ambient light back through the liquid crystal materials for illumination.
- EU for “transreflective” surface which uses a partially reflecting surface for viewing with a backlight or using reflected light.
- **Example:** To receive a 0.5-inch high, 4-digit, wide temperature, high humidity, reflective panel display, order: FE202+W-DU = **FE0202W-DU**

## Purdy Electronics

### The Design Engineer’s Source for High Quality Component Solutions

The mission of Purdy Electronics Corporation is to provide our original equipment manufacturer (OEM) customers with the highest quality electronic components at competitive prices, supported with superior customer and technical service and value added enhancements.

Purdy Electronics has been providing electronic components to OEMs for over 75 years. We specialize in manufacturing a limited number of product lines including:



Liquid Crystal Display Products



Fans and Blowers



Light Emitting Diodes



Rotary and Thumbwheel Switches



Fiber Optic Components and Cable Assemblies