



**Displays**

# Short Form Catalog 2005

## 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

**purdy**<sup>®</sup>  
ELECTRONICS  
CORPORATION

720 Palomar Avenue  
Sunnyvale, CA 94085  
Tel: 408.523.8282 Fax: 408.733.1287  
Email: [email@purdyelectronics.com](mailto:email@purdyelectronics.com)  
[www.purdyelectronics.com](http://www.purdyelectronics.com)



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

### Color TFT Monitors (includes CCFL backlight, inverter and control circuitry)

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
AND-TFT-25PA	2.5	160 x 234	250	0.105 x 0.161	50.2 x 37.7	62 x 49 x 6	12.0*	TFT Analog RGB, NTSC, PAL
AND-TFT-25PA-LED	2.5	160 x 234	220	0.1025 x 0.163	49.2 x 38.14	59 x 50 x 6	12.0	TFT Analog RGB, 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*	TFT Analog RGB, NTSC, PAL
AND-TFT-35PA-LED	3.5	160 x 234	220	0.149 x 0.225	71.6 x 52.7	84 x 69 x 8	12.0	TFT Analog RGB, NTSC, PAL
AND-TFT-35PA-4HB	3.5	160 x 234	2,000	0.149 x 0.225	71.6 x 52.7	84 x 69 x 9	12.0	TFT Analog RGB, 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 Composite, RGB, VGA
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 Composite, RGB, VGA
AND-TFT-5TS	5.0	960 x 234	350	0.107 x 0.319	102.7 x 74.5	119 x 91 x 7.5	12.0	NTSC/PAL Composite, RGB, VGA
ABD-TFT-62PA	6.2	1440 x 234	350	0.114 x 0.33	137.5 x 77.2	154.4 x 92.6 x 6	12.0	NTSC/PAL Composite, RGB, VGA
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 Composite
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 Composite
AND-TFT-7PA	7.0	1440 x 234	350	0.107 x 0.37	154.1 x 86.6	166 x 100 x 7.2	12.0	NTSC/PAL Composite

\* Control circuitry includes integrated DC-AC inverter to drive CCFL backlight.

### Color TFT Modules (includes CCFL 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>								
ANDpSi04C380K-HB	4.0	640 x 480	200	0.126 x 0.126	80.64 x 60.48	118 x 73 x 6	3.3	Digital 6-bit interface
ANDpSi056ET0S	5.6	1024 x 600	120	0.120 x 0.120	122.88 x 72	141.8 x 84.4 x 7.5	3.3	Digital 6-bit interface
ANDpSi056ET0S-DHB	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	Digital 6-bit interface
ANDpSi08C355	8.4	800 x 600	145	0.213 x 0.213	170.4 x 127.8	201 x 140 x 6	3.3	Digital 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
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
ANDpSi121C505-HB	12.1	1024 x 768	165	0.24 x 0.24	245.7 x 184.3	261 x 199 x 5	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	Digital 6-bit interface
<b>Amorphous-Silicon Color TFT Displays</b>								
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-WVHB	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-HB	6.5	640 x 480	400	0.0685 x 0.2055	131.52 x 98.63	151 x 115.5 x 10	5.0	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
AND10C210-DHB	10.4	640 x 480	500	0.33 x 0.33	211.2 x 158.4	265 x 189 x 14	5.0	Digital 6-bit interface
AND10C210-4HB	10.4	640 x 480	1,000	0.33 x 0.33	211.2 x 158.4	265 x 189 x 14	5.0	Digital 6-bit interface
AND10C401S-DHB	10.4	800 x 600	350	0.264 x 0.264	211.2 x 158.4	243 x 185 x 11	3.3	Digital 6-bit interface
AND12C285-DHB	12.1	800 x 600	500	0.3075 x 0.3075	246.0 x 184.5	290 x 220 x 15	5.0	Digital 6-bit interface
AND12C285-4HB	12.1	800 x 600	850	0.3075 x 0.3075	246.0 x 184.5	290 x 220 x 17	5.0	Digital 6-bit interface

Note 1: VGA = 640 x 480 resolution; SVGA = 800 x 600 resolution; XGA = 1024 x 768 resolution

Note 2: 6 bit = 256k colors; 8 bit = 16.2M colors

Note 3: pSi in the part number designates a poly-silicon display (high definition and more durable), all other displays are amorphous silicon.

Note 4: 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
AND1261WGST	128 x 64	0.43 x 0.43	60 x 33	75 x 53 x 6.8	+5/-8.0	Built-in Data RAM	-	-	6:1
AND1261WGST-LED	128 x 64	0.43 x 0.43	60 x 33	75 x 53 x 8.9	+5/-8.0	Built-in Data RAM	LED		6:1
AND1263WGST	192 x 128	0.37 x 0.37	77.5 x 54	98 x 86 x 12.7	+5/-13.8	Built-in Data RAM	-	-	7:1
AND1263WGST-LED	192 x 128	0.37 x 0.37	77.5 x 54	98 x 86 x 12.7	+5/-13.8	Built-in Data RAM	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
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
AND1742MST	240 x 128	0.51 x 0.51	134 x 76	180 x 110 x 15.1	+5	SED1330		CCFL	6:1
AND1742MST2	240 x 128	0.51 x 0.51	134 x 76	180 x 110 x 15.1	+5	None		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
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	147 x 29.5	190 x 54 x 10.1	5	HD44780	-
AND791GST-LED	4 x 40	2.78 x 4.89	147 x 29.5	190 x 54 x 16.3	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 transfective 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		0.5	1.1 x 1.2
FE0201W		0.5	2.0 x 1.2
FE0203W		0.5	2.0 x 1.2
FE0202W		0.5	2.0 x 1.2
FE0502W		0.7	2.75 x 1.5
FE0206W		0.5	2.0 x 1.2
FE0208W		0.4	2.0 x 1.2
FE0401W		0.5	2.75 x 1.2
FE0601W		0.7	3.7 x 1.5
FE1001W		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 “transfective” 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:



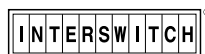
Liquid Crystal Display Products



Fans and Blowers



Light Emitting Diodes



Rotary and Thumbwheel Switches



Fiber Optic Components and Cable Assemblies