

## FA1000-NP/C/T SCREEN PANEL DATA (PARTS)

### 1.2 GENERAL SPECIFICATIONS

Item	Specification	Unit	Note
Screen Size	9.676" diagonal		
Driver Element	a-Si TFT active matrix	-	-
Pixel Number	1024x R.G.B. x 768	pixel	-
Pixel Pitch	0.192 (V) x 0.192 (H)	mm	-
Pixel Arrangement	RGB vertical stripe	-	-
Display Colors	262,144	color	-
Transmissive Mode	Normally black	-	-
Surface Treatment	Hard coating (3H), Glare	-	-
Luminance, White	420 Typ.	Cd/m2	
Power Consumption	Total 3.14 W (Max.) @ cell 0.98 W (Max.), LED BL 2.16W (Max.)		(1)

### 4.3.2 BACKLIGHT UNIT ( 6 Strings, 6 LED per string )

Ta = 25 ± 2 °C

Parameter	Symbol	Value			Unit	Note
		Min.	Typ.	Max.		
Number of LEDs	NLED	-	36	-	pc	
Forward Voltage	V <sub>F</sub>	2.6	2.9	3.0	V	I <sub>F</sub> = 20mA
Forward Current	I <sub>F</sub>	-	20	-	mA	(1)
Power Consumption	PL	1.88	2.09	2.16	W	(2)
LED Life Time	L <sub>BL</sub>	15,000	-	-	Hrs	(3)

Note (5).

### 5.2 OPTICAL SPECIFICATIONS

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit	Note
Contrast ratio	CR	Optimal	700	900	--	--	1,2,3
Response (rise + fall time)	τ <sub>on</sub> +τ <sub>off</sub>	θ = 0°, Ta=30°C	--	20	24	ms	1,2,3
Max Gray to Gray Response time	T <sub>020</sub>	θ = 0°, Ta=30°C	--	20	24	ms	1,2,3
Luminance	Y	I <sub>LED</sub> =20mA	380	420	--	cd/m2	1,2,4
White Chromaticity	Wx	CIE 1931	0.275	0.310	0.345	--	1,2,3
	Wy		0.292	0.327	0.362	--	1,2,3
Red Chromaticity	Rx		0.57	0.605	0.64	--	1,2,3
	Ry		0.31	0.345	0.38	--	1,2,3
Green Chromaticity	Gx		0.283	0.318	0.353	--	1,2,3
	Gy		0.537	0.572	0.607	--	1,2,3
Blue Chromaticity	Bx		0.115	0.150	0.185	--	1,2,3
	By		0.081	0.116	0.151	--	1,2,3
Iso-Contrast Viewing Angle	θ	CR ≥ 100 Horizontal	75	85	--	Degrees	1,2,3
	θ	CR ≥ 10 Horizontal and Vertical Directions	85	89	--	Degrees	1,2,3
	θ	CR ≥ 100 @Any Other Angle	35	40	--	Degrees	1,2,3
No Gray Inversion Angle	θ	Any Angle	90	--	--	Degrees	1,2,3
White Uniformity		Optimal	65	80	--	%	1,2,5
Flicker	F	No Visual Flicker	--	--	-30	dB	1,2,3
Cross Talk	D <sub>SHA</sub>	No Visible Cross-talk	--	--	2	%	1,2,3
Gamma		--	--	2.2	--	--	1,2,3