8.4inch SVGA specification change point description
(TCG084SVLQEPNN-AN40)

2023/6/20
Kyocera Corporation
Corporate Display Group
Display Engineering Division
Product Engineering Department

Approval	Checked	Prepared
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Thank you very much for your continuous support.
Regarding the product that are currently being mass-produced and delivered, we would like to apply for a product change and propose the alternative product for the following reasons.
We apologize for the inconvenience and appreciate your understanding.

1. Target Products
   TCG084SVLQEPNN-AN40

2. Background
In order to maintain a stable supply of the product, we would like to change from in-house production of TFT panels to external procurement.
Along with the panel change, driver ICs and PCBs will also be changed.
The specification details of the alternative product will be explained in the following pages.

3. Schedule
   Sample shipment: Scheduled for July 2023
   Approval target: End of August 2023
   Switching: We will separately inform you of the applicable lot based on the arrangements.

		TCG084SVLQEPNN-AN40 Current product	TCG084SVLAECNN-AN40 Changes
TFT		Kyocera products	H Company
Liquid crystal materials		A	I
polarizer		B	←
Driver IC Source		C	J
Driver IC Gate		D	K
FPC		E	←
PCB	PCB substrate	F	L
	Implementation process	Our company China Plant	←
	Mounting parts	Mounting parts will be re-selected considering availabilityand EOL, etc.	
Backlight		G	←

H Company TFT has been used in other products for more than 10 years.
It has a proven track record in terms of characteristics, reliability and procurement, and there is no risk in changing to it.

		TCG084SVLQEPNN-AN40 Current product	TCG084SVLAECNN-AN40 Changes
Product Specifications	polarizer	Anti Glare Type	←
	Interface	LVDS	←
	External dimensions	199.5(W)x(149.0)(H)x11.5(D) mm	←
	Display Mode	Normally Black	←
	Operating temperature range	-30~80°C	←
	Storage temperature range	-30~80°C	←
	Power supply voltage (LCD)	Typ. 3.3V	←
	Current Consumption (LCD)	Typ. 270mA	Typ. 320mA
	Power supply voltage (backlight)	Typ. 12.0V	←
	Current consumption (backlight)	Typ. 740mA	←
	Backlight lifetime	Typ. 70,000hr (DPWM=100%, Ta=25°C)	←

The changes do not affect product specifications.

Ta=25oC			TCG084SVLQEPNN-AN40 Current product	TCG084SVLAECNN-AN40 Changes
Optical properties	response speed	Rise	Typ. 18ms	←
		Down	Typ. 12ms	←
	Brightness (DPWM = 100%, Center)		Typ. 1200cd/m2	←
	Contrast		Typ. 750	←
	Viewing angle CR≧10	UPPER	Typ. 85deg	←
		LOWER	Typ. 85deg	←
		LEFT	Typ. 85deg	←
		RIGHT	Typ. 85deg	←
	chromaticity	Red	0.600±0.050, 0.350±0.050	0.605±0.050, 0.340±0.050
		Green	0.335±0.050, 0.570±0.050	0.340±0.050, 0.570±0.050
		Blue	0.150±0.050, 0.120±0.050	0.155±0.050, 0.145±0.050
		White	0.320±0.050, 0.345±0.050	0.320±0.050, 0.355±0.050

The changes do not affect product specifications.

Test items	Test conditions	Judgment Criteria	N	Results
High-temperature operation	70°C/Dry/500Hr	Function/Display: No abnormalities Current consumption:No abnormalities	3	Pass
High temperature and high humidity operation	40°C/90%RH/500Hr		3	Pass
low-temperature operation	-20°C/Dry/500Hr		3	Pass
thermal shock	-30°C↔80°C/240Cycle		3	Pass
Vibration	2G/10~100Hz/↔5min Sine wave/X, Y, Z/2Hr each	Function/Display: No abnormalities	2	Pass
Impact	50G/11msec/sine half wave +/- X, +/- Y, +/- Z/3 times each		2	Pass

As a proof of reliability, the reliability test was conducted on the representative model with the above test items and test conditions.
There were no problems found.

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Control No. : EDPM2-2306-A9-1366

Revision History

Revision number	Symbols	Reviser	Revision date	Revised content
00	None	Yamawaki	2023/6/20	initial publication
01				
02				
03