

Notice of Change of LCD (TCG104XGLPAPNN-AN30)

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KYOCERA Corporation
Corporate Display Group
Display Engineering Division
Product Engineering Department

Approved	Checked	Prepared
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Let us begin by thanking you for patronizing our products and for giving us a chance to be of service to you.

We are sending this change notice as follows,

1. Type Number

TCG104XGLPAPNN-AN30

2. The reason of this change

Capacity at our Japanese plant is relatively small and in order to secure enough capacity to meet the demands from the market, we decided to shift our TFT array production to other plant.

3. Change details

- a) TFT array : Change from in-house production to external procurement
- b) PCB : Components populated on PCB are changed in corporate with TFT array change

Technical deviation is described in the following pages.

Details of the change

Comparison list		TCG104XGLPAPNN-AN30 [Current product]	TCG104XGLPAPNN-AN30-TA [After changes]
TFT		in-house (Yasu Plant)	A
Polarizer		B	←
Driver IC		C	←
PCB	Substrate	D	←
	Assembly	Our China factory(SKC)	←
	Populated parts	Parts change according to TFT change	
	Connector	E	←
FPC		F	←
Backlight		G	←

As we show it as the above, new TFT array and the circuits of PCB are changed, however, there is no change of your interface to TFT module and your driving method.

Impact on the values stated in the specifications



Specification		TCG104XGLPAPNN-AN30 [Current product]	TCG104XGLPAPNN-AN30-TA [After changes]
Product Specifications	Polarizer	Anti-Glare treatment	←
	Interface	LVDS	←
	Outline dimensions	230(W)x180.2(H)x10.5(D) mm	←
	Base color	Normally Black	←
	Operating temperature	-30~80°C	←
	Storage temperature	-30~80°C	←
	Supply voltage (LCD)	Min. 3.0V / Typ. 3.3V / Max. 3.6V	←
	Current consumption (LCD)	Typ. 270mA / Max. 350mA	←
	Supply voltage (LED)	Min. 10.8V / Typ. 12.0V / Max. 13.2V	←
	Current consumption (LED)	Typ. 440mA / Max. 560mA	←
	Operating life time	Typ. 70,000hr ($D_{PWM}=100\%$, $T_a=25^{\circ}C$)	←

This change will not affect the electrical characteristics of the product specification.

Impact on the values stated in the specifications



Specification (Ta=25°C)		TCG104XGLPAPNN-AN30 [Current product]	TCG104XGLPAPNN-AN30-TA [After changes]	
Optical characteristics	Response time	Rise	Typ. 18ms	←
		Down	Typ. 12ms	←
	Brightness (D _{PWM} = 100%, Center)		Min. 420cd/m ² / Typ. 600cd/m ²	←
	Contrast ratio		Min. 490 / Typ. 700	←
	Viewing angle range CR>10	UPPER	Typ. 85deg	←
		LOWER	Typ. 85deg	←
		LEFT	Typ. 85deg	←
		RIGHT	Typ. 85deg	←
	Chromaticity coordinates	Red	0.600±0.050, 0.350±0.050	←
		Green	0.335±0.050, 0.570±0.050	←
		Blue	0.150±0.050, 0.120±0.050	←
		White	0.315±0.050, 0.340±0.050	←

This change will not affect the electrical characteristics of the product specification.

Item	Test condition	Criteria	N	Result
High temp. operation	80°C/Dry/500Hr	Function/display image: No abnormality is confirmed Current consumption: No abnormality is confirmed	5	Pass
High temp. humidity operation	40°C/90%RH/500Hr		5	Pass
Low temp. operation	-30°C/Dry/500Hr		5	Pass
Temp. cycle	-30°C↔80°C/240Cycle		5	Pass
Vibration	2G/10~100Hz/↔5min Sine wave/X,Y,Z/2Hr for each axis	Function/display image: No abnormality is confirmed	4	Pass
Shock	50G/11msec/half-sine wave ±X,±Y,±Z/3 time for each axis		2	Pass

There were no problems in the reliability test.

Revision History



Rev	Mark	Name	Date	Contents
00	None	I. Kawajiri	2023/9/13	Initial release
01	△1			
02	△2			
03	△3			

THE NEW VALUE FRONTIER



KYOCERA Corporation