

To : KII



Notice of Change of LCD

2021/11/12
KYOCERA Corporation
Corporate Display Group
Display Engineering Division
Product Engineering Department

Approved	Checked	Prepared
H. Tokumori	M. Iwasaki	I. Kawajiri

KYOCERA Corporation

Thank you for your continued support.
 For the following reasons, we will apply for a change in the materials used in our products that are currently being mass-produced.
 We apologize for the inconvenience, and thank you for your understanding.

1 . Product

TCG057VGLGA-G00

2 . Background

The supply of materials used in this product continues to be tight due to extremely strong demand, especially electronic components.
 Under such circumstances, we have decided to review the materials and renew the product in order to continue stable supply in the future.
 Details will be explained on the following pages.

3 . Schedule

- Sample shipment : Done
- Approval request : End of December, 2021
- Planned change in : Notify applicable lot separately

For the 5.7inch VGA [TCG057VGLGA-G00-US] for your company, we will explain the specifications of the Renewal product that we are proposing this time below.

Specification comparison list		TCG057VGLGA-G00 [Current product]	TCG057VGLDBANN-GN*06 [New product]
TFT	supplier	Outsourcing α	Outsourcing β
	Producing area	Taiwan	Taiwan
Polarizer		A	←
Driver IC		B	C
PCB	Board	D	E
	Component mounting	Kyocera China factory	←
	Mounting components	For stable supply in the future, we will downsize capacitors and resistors, and change parts that have an old release time and are uncertain about supply to the latest parts.	
FPC		F	G
Backlight		H	←

Impact on the values stated in the specifications



Specification comparison list		TCG057VGLGA-G00 [Current product]	TCG057VGLDBANN-GN*06 [New product]
Product Specifications	Polarizer	Glare Low-reflection treatment	←
	Interface	CMOS	←
	Outline dimensions	134.5(W)x103.4(H)x8(D) mm Projection not included.	←
	Base color	Normally White	←
	Operating temperature	-20~70°C	←
	Storage temperature	-30~80°C	←
	Supply voltage (LCD)	Typ. 3.3V	←
	Current consumption (LCD)	Typ. 150mA	←
	LED Forward current	60mA/Line	←
	LED Forward voltage	Typ. 9.0V/Line (IF=60mA, Ta=25°C)	←
Operating life time	Typ. 100,000hr (IF=60mA, Ta=25°C)	←	

There is no effect on product specifications.

Impact on the values stated in the specifications



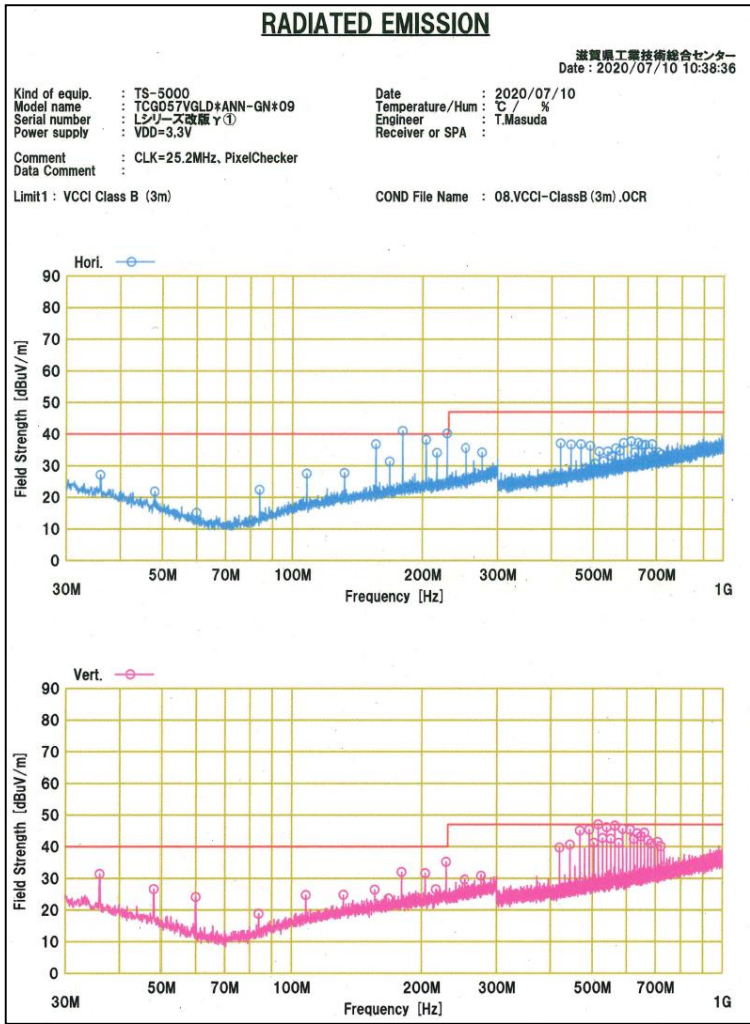
Specification comparison list			TCG057VGLGA-G00 [Current product]	TCG057VGLDBANN-GN*06 [New product]
Optical specifications (Typ.)	Response time	Rise	10ms	←
		Down	25ms	←
	Brightness (5 points average)		400cd/m ²	←
	Contrast ratio		500	←
	Viewing angle range CR>5	Upper	80deg	←
		Lower	80deg	←
		Left	80deg	←
		Right	80deg	←
	Gray inversion		12 o'clock	←
	Chromaticity coordinates	Red	0.610, 0.360	←
		Green	0.350, 0.570	←
		Blue	0.140, 0.110	←
White		0.330, 0.350	←	

There is no effect on product specifications.

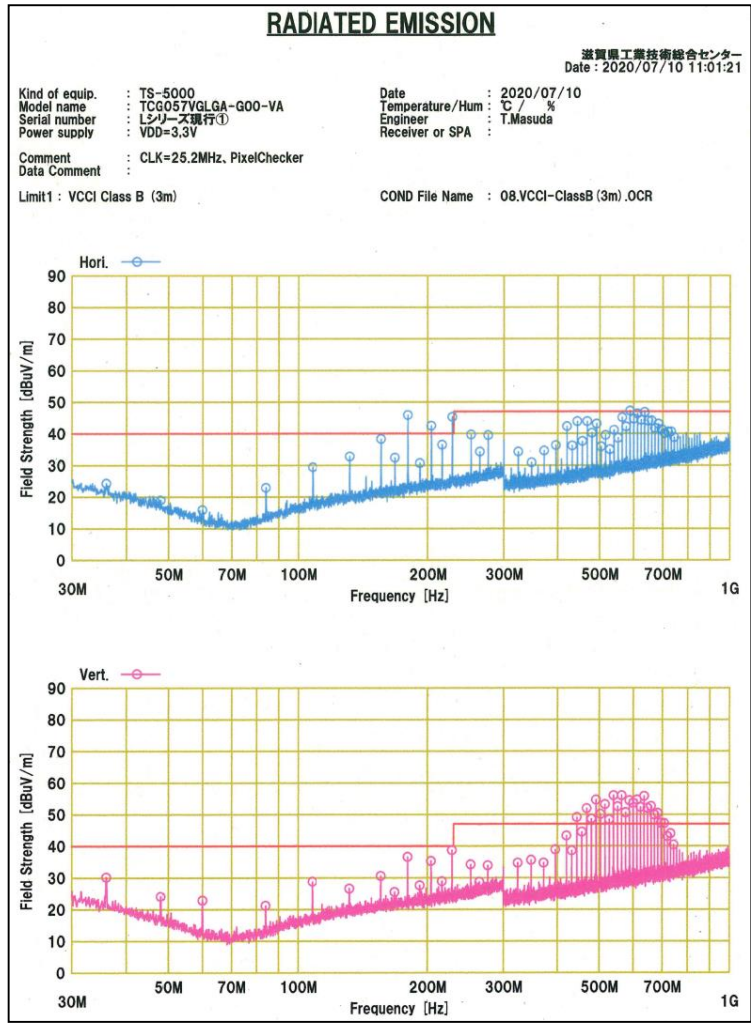
Test item	Test condition	Judgement	N	Result
High temp. operation	70°C/Dry/500Hr	Display function: No defect Display quality: No defect Current consumption: No defect	5	Pass
High temp. humidity atmosphere	60°C/90%RH/500Hr		5	Pass
Low temp. atmosphere	-30°C/Dry/500Hr		5	Pass
Temp. cycle	-30°C⇔80°C/100Syycle		5	Pass
Vibration	2G/10~100Hz/⇔5min sine wave X,Y,Z/2Hr in each direction		Display function: No defect Display quality: No defect	4
Shock	50G/11msec/Sine half wave ±X,±Y,±Z/各3imes	2		Pass

As a result of conducting the reliability test as described above, we have confirmed that there is no problem in all the tests and that it can be adopted as our STD product without any problem.

New product



Current product



In our EMI test, we have obtained the same result as the current product, so we judge that there is no problem with switching.

Rev	Mark	Name	Date	Contents
00	None	I. Kawajiri	2021/11/12	Initial release
01	△1			
02	△2			
03	△3			

THE NEW VALUE FRONTIER



KYOCERA Corporation