SPEC for Mass Production

Spec No.	TQ3C-8EAF0-E1YAB33-00
Date	Mar 28, 2022

TYPE: TCG085WVLQDPNN-GN00-EA

< 8.5 inch WVGA transmissive color TFT with LED backlight>

CONTENTS

- 1. Application
- 2. Construction and outline
- 3. Mechanical specifications
- 4. Absolute maximum ratings
- 5. Electrical characteristics
- 6. Optical characteristics
- 7. Interface signals
- 8. Input timing characteristics
- 9. Backlight characteristics
- 10. Lot number identification
- 11. Warranty
- 12. Precautions for use
- 13. Reliability test data
- 14. Outline drawing



KYOCERA CORPORATION

This specification is subject to change without notice. Consult Kyocera before ordering.

Original	Designed by: Engineering dept.			Confirmed by: QA dept.	
Issue Date	Prepared	Checked	Approved	Checked	Approved
Mar 28, 2022	I. Kawajiri	M. Iwasaki	A. Iwasaki	Y. Aritsubo	M. Kinouchi



Spec No.	Part No.	Page
TQ3C-8EAF0-E1YAB33-00	TCG085WVLQDPNN-GN00-EA	-

Warning

- 1. This Kyocera LCD module has been specifically designed for use only in electronic devices and industrial machines in the area of audio control, office automation, industrial control, home appliances, etc. The module should not be used in applications where the highest level of safety and reliability are required and module failure or malfunction of such module results in physical harm or loss of life, as well as enormous damage or loss. Such fields of applications include, without limitation, medical, aerospace, communications infrastructure, atomic energy control. Kyocera expressly disclaims any and all liability resulting in any way to the use of the module in such applications.
- 2. Customer agrees to indemnify, defend and hold Kyocera harmless from and against any and all actions, claims, damages, liabilities, awards, costs, and expenses, including legal expenses, resulting from or arising out of Customer's use, or sale for use, or Kyocera modules in applications.

Caution

- 1. Kyocera shall have the right, which Customer hereby acknowledges, to immediately scrap or destroy tooling for Kyocera modules for which no Purchase Orders have been received from the Customer in a two-year period.
- 2. Please note that we may not be able to respond to new environmental regulations after receiving the final mass production order for this product.



Spec No.	Part No.	Page
TQ3C-8EAF0-E1YAB33-00	TCG085WVLQDPNN-GN00-EA	-

Revision record

	Revision record						
Date				Engineering of		Confirmed by	
		Prepa	red	Checked	Approved	Checked	Approved
		I. Kaw	vajiri	M. Iwasaki	A. Iwasaki	Y. Aritsubo	M. Kinouchi
Rev.No.	Date	Page			Descripti	ons	

Spec No.	Part No.	Page
TQ3C-8EAF0-E1YAB33-00	TCG085WVLQDPNN-GN00-EA	1

1. Application

This document defines the specification of TCG085WVLQDPNN-GN00-EA. (RoHS Compliant)

2. Construction and outline

LCD : Transmissive color dot matrix type TFT

Backlight system : LED

Polarizer : Glare treatment

Additional circuit : Timing controller, Power supply (3.3V input)

(without constant current circuit for LED Backlight)

3. Mechanical specifications

Item	Specification	
Outline dimensions 1)	210(W)×134(H)×8.7(D)	mm
Active area	184.8(W)×110.88(H) (21.6 cm/8.5 inch(Diagonal))	mm
Dot format	800×(B,G,R)(W)×480(H)	
Dot pitch	0.077(W)×0.231(H)	mm
Base color 2)	Normally Black	-
Mass	310	g

- 1) Projection not included. Please refer to outline for details.
- 2) Due to the characteristics of the LCD material, the color varies with environmental temperature.



Spec No.	Part No.	Page
TQ3C-8EAF0-E1YAB33-00	TCG085WVLQDPNN-GN00-EA	2

4. Absolute maximum ratings

4-1. Electrical absolute maximum ratings

Item		Symbol	Min.	Max.	Unit
Supply voltage		V_{DD}	-0.3	4.0	V
Input signal voltage	1)	$V_{\rm IN}$	-0.3	4.5	V
LED forward current	2) 3)	IF	-	100	mA

- 1) Input signal: CK, R0~R5, G0~G5, B0~B5, H_{SYNC}, V_{SYNC}, ENAB, CM, SC
- 2) For each "AN-CA"
- 3) Do not apply reversed voltage.

4-2. Environmental absolute maximum ratings

Item		Symbol	Min.	Max.	Unit
Operating temperature	1)	T_{OP}	-20	70	$^{\circ}\mathrm{C}$
Storage temperature	2)	Тѕто	-30	80	$^{\circ}\mathrm{C}$
Operating humidity	3)	H_{OP}	10	4)	%RH
Storage humidity	3)	Hsto	10	4)	%RH
Vibration		-	5)	5)	-
Shock		-	6)	6)	-

- 1) Operating temperature means a temperature which operation shall be guaranteed. Since display performance is evaluated at 25°C, another temperature range should be confirmed.
- 2) Temp. = -30°C < 48h, Temp. = 80°C < 168h Store LCD at normal temperature/humidity. Keep them free from vibration and shock. An LCD that is kept at a low or a high temperature for a long time can be defective due to other conditions, even if the low or high temperature satisfies the standard. (Please refer to "Precautions for Use" for details.)
- 3) Non-condensing
- 4) Temp. \leq 40°C, 85%RH Max.

Temp. > 40°C, Absolute humidity shall be less than 85%RH at 40°C.

5)

Frequency	10∼55 Hz	Acceleration value
Vibration width	0.15mm	$(0.3\sim 9 \text{ m/s}^2)$
Interval	10-55-10	Hz 1 minute

2 hours in each direction X, Y, Z (6 hours total) EIAJ ED-2531

6) Acceleration: 490 m/s², Pulse width: 11 ms

3 times in each direction: $\pm X$, $\pm Y$, $\pm Z$

EIAJ ED-2531



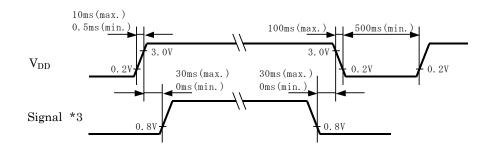
Spec No.	Part No.	Page
TQ3C-8EAF0-E1YAB33	TCG085WVLQDPNN-GN00-EA	3

5. Electrical characteristics

Temp. = $-20 \sim 70$ °C

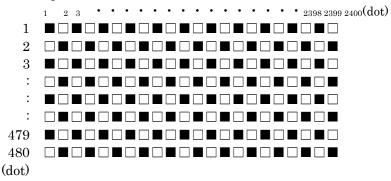
Item		Symbol	Condition	Min.	Тур.	Max.	Unit
Supply voltage	1)	$V_{ m DD}$	•	3.0	3.3	3.6	V
Current consumption		${ m I}_{ m DD}$	2)	-	200	260	mA
Permissive input ripple voltage		V_{RP}	$V_{DD}=3.3V$	-	-	100	mVp-p
	0)	V_{IL}	"Low" level	0	-	0.8	V
To seed of our all seeds are	3)	V_{IH}	"High" level	2.0	-	$V_{ m DD}$	V
Input signal voltage		V_{IL}	"Low" level	0	-	$0.3V_{\mathrm{DD}}$	V
	4)	V_{IH}	"High" level	$0.7V_{ m DD}$ -	-	$V_{ m DD}$	V

1) V_{DD}-turn-on conditions



2) Display pattern:

 $V_{DD} = 3.3V$, Temp. = 25°C



3) Input signal: CK, R0~R5, G0~G5, B0~B5, Hsync, Vsync, ENAB, CM

4) Input signal: SC



Spec No.	Part No.	Page
TQ3C-8EAF0-E1YAB33-00	TCG085WVLQDPNN-GN00-EA	4

6. Optical characteristics

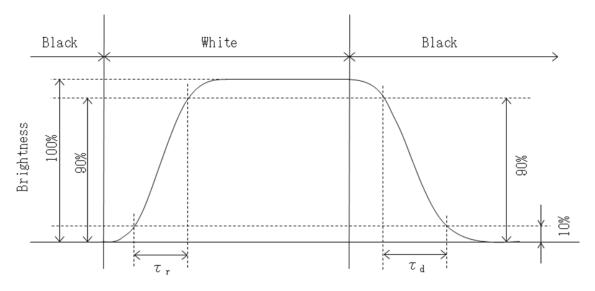
Measuring spot = ϕ 6.0mm, Temp. = 25°C

Item		Symbol	Condition	Min.	Тур.	Max.	Unit
D .:	Rise	τr	$\theta = \phi = 0$ °	-	12	-	ms
Response time	Down	τd	$\theta = \phi = 0$ °	-	18	-	ms
		θ upper		-	85	-	ما م ص
Vienning on ale		θ lower	CR≧10	-	85	-	deg.
Viewing angle	range	ϕ left	CR≦10	•	85	1	1
		ϕ right		-	85	-	deg.
Contrast ratio		CR	$\theta = \phi = 0$ °	350	500	-	-
Brightness		L	IF=60mA/Line	280	400	-	cd/m²
	Red	X	$\theta = \phi = 0$ °	0.550	0.600	0.650	
		У		0.300	0.350	0.400	
	C	X	0 - 4 -00	0.285	0.335	0.385	
Chromaticity	Green	У	$\theta = \phi = 0^{\circ}$	0.515	0.565	0.615	
coordinates	DI	X	0 - 4 -00	0.100	0.150	0.200	-
	Blue	У	$\theta = \phi = 0$ °	0.065	0.115	0.165	
	XX71- : 4 -	X	$\theta = \phi = 0^{\circ}$	0.260	0.310	0.360	
	White	У	$\theta - \phi - 0^{-1}$	0.275	0.325	0.375	

6-1. Definition of contrast ratio

CR(Contrast ratio) = Brightness with all pixels "White"
Brightness with all pixels "Black"

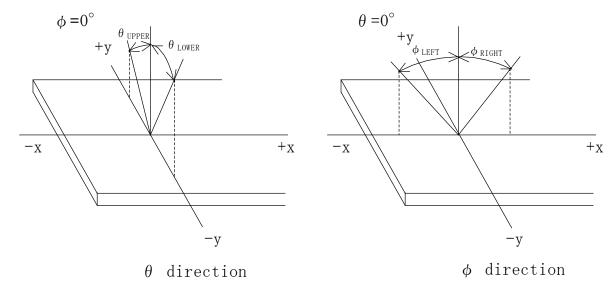
6-2. Definition of response time



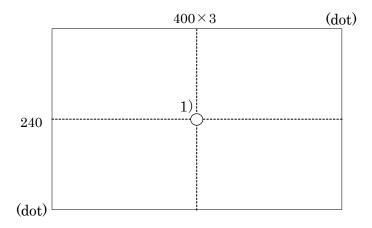


Spec No.	Part No.	Page
TQ3C-8EAF0-E1YAB33-00	TCG085WVLQDPNN-GN00-EA	5

6-3. Definition of viewing angle



6-4. Brightness measuring point



- 1) Rating is defined as the white brightness at center of display screen.
- 2) 5 minutes after LED is turned on. (Ambient Temp.=25°C)



Spec No.	Part No.	Page
TQ3C-8EAF0-E1YAB33-00	TCG085WVLQDPNN-GN00-EA	6

7. Interface signals

7-1. LCD

No.	Symbol	Description	Level
1	$V_{ m DD}$	3.3V power supply	
2	$V_{ m DD}$	3.3V power supply	
3	$V_{ m DD}$	3.3V power supply	
4	$V_{ m DD}$	3.3V power supply	
5	CM	Mode select signal(High or Open: Necessity of V·H _{SYNC} , GND: Unnecessity of V·H _{SYNC})	
6	ENAB	Data Enable (positive)	
7	GND	GND	
8	Vsync	Vertical synchronous signal (negative)(fix low or high: when CM fixed to GND)	
9	GND	GND	
10	H_{SYNC}	Horizontal synchronous signal (negative) (fix low or high: when CM fixed to GND)	
11	GND	GND	
12	B5	BLUE data signal (MSB)	
13	B4	BLUE data signal	
14	В3	BLUE data signal	
15	GND	GND	
16	B2	BLUE data signal	
17	B1	BLUE data signal	
18	В0	BLUE data signal (LSB)	
19	GND	GND	
20	G5	GREEN data signal (MSB)	
21	G4	GREEN data signal	
22	G3	GREEN data signal	
23	GND	GND	
24	G2	GREEN data signal	
25	G1	GREEN data signal	
26	G0	GREEN data signal (LSB)	
27	GND	GND	
28	R5	RED data signal (MSB)	
29	R4	RED data signal	
30	R3	RED data signal	
31	GND	GND	
32	R2	RED data signal	
33	R1	RED data signal	
34	R0	RED data signal (LSB)	
35	SC	Scan direction control	
36	GND	GND	
37	GND	GND	
38	CK	Sampling clock	
39	GND	GND	
40	GND	GND	

LCD connector : FH33-40S-0.5SH (10) (HIROSE)

Recommended matching FFC or FPC $$: 0.5mm pitch



Spec No.	Part No.	Page
TQ3C-8EAF0-E1YAB33-00	TCG085WVLQDPNN-GN00-EA	7

1) Scan direction

SC: GND or Open SC: High





7-2. LED

No.	Symbol	Description
1	AN1	Anode 1
2	AN2	Anode 2
3	CA1	Cathode 1
4	CA2	Cathode 2

LCD side connector(CN2) : PHR-4 (JST)

Recommended matching connector

: B4B-PH-SM4-TB (JST)

: B4B-PH-SM4-TB(LF)(SN) (JST) \cdots (RoHS Compliant)

: S4B-PH-SM4-TB (JST)

: S4B-PH-SM4-TB(LF)(SN) (JST) \cdots (RoHS Compliant)



Spec No.	Part No.	Page
TQ3C-8EAF0-E1YAB33-00	TCG085WVLQDPNN-GN00-EA	8

8. Input timing characteristics

8-1. CM: High or Open (Necessity of V·H_{SYNC})

8-1-1. Timing characteristics 1), 3), 4)

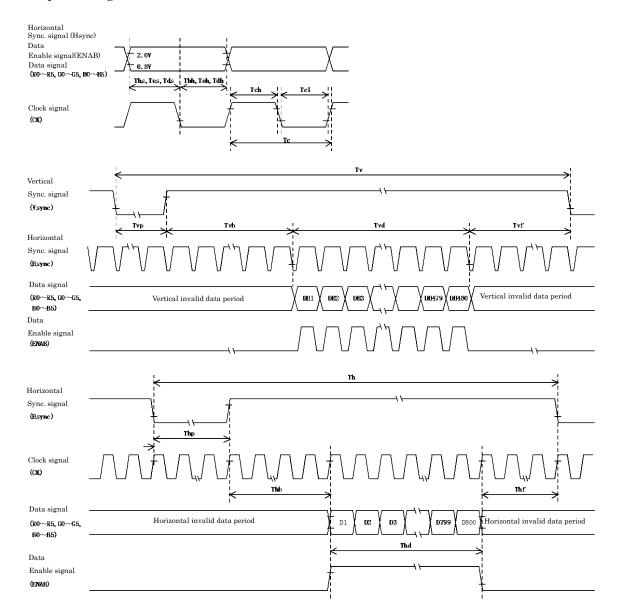
	Item	Symbol	Min.	Тур.	Max.	Unit	Note
	Frequency	Fck	29.88	33.2	36.52	MHz	2)
Clasis	Period	Tc	27.4	30.1	33.5	ns	
Clock	High time	Tch	12	-	-	ns	
	Low time	Tcl	12	-	-	ns	
Data	Set up time	Tds	5	-	-	ns	
Data	Hold time	Tdh	10	-	-	ns	
D (F 11	Set up time	Tes	5	-	-	ns	
Data Enable	Hold time	Teh	10	-	-	ns	
	Set up time	Ths	5	-	-	ns	
	Hold time	Thh	10	-	-	ns	
	Period	(D)	944	1056	1088	Тс	5), 6)
Horizontal sync. signal		Th	-	31.8	-	μ s	5)
B	Pulse width	Thp	4	128	-	Тс	5), 6)
	Front porch	Thf	-	40	-	Тс	6)
	Back porch	Thb	7	88	-	Тс	6)
Horizontal display	period	Thd		800		Тс	6)
	David	Tv	516	525	534	Th	5)
	Period	1 V	14.7	16.6	17.4	ms	
Vertical sync. signal	Pulse width	Tvp	1	2	-	Th	
~- g w -	Front porch	Tvf	-	11	-	Th	
	Back porch	Tvb	4	32	-	Th	
Vertical display per	riod	Tvd		480		Th	

- 1) In case of lower frequency, the deterioration of the display quality, flicker etc., may occur.
- 2) If CK is fixed to "H" or "L" level for certain period while ENAB is supplied, the panel may be damaged.
- 3) When dimming LED by PWM, please adjust LCD operating signal timing and LED driving frequency, to optimize the display quality. There is a possibility that flicker is observed by the interference of LCD operating signal timing and LED driving condition (especially driving frequency), even if the condition satisfies above timing specification.
- 4) Do not make Tv, Th, and Thp fluctuate.
- 5) CK count of each Horizontal Scanning Time should be always the same. Vertical invalid data period should be "n" X "Horizontal Scanning Time". (n: integer) Frame period should be always the same.



Spec No.	Part No.	Page
TQ3C-8EAF0-E1YAB33-00	TCG085WVLQDPNN-GN00-EA	9

8-1-2. Input timing characteristics





Spec No.	Part No.	Page
TQ3C-8EAF0-E1YAB33-00	TCG085WVLQDPNN-GN00-EA	10

8-2. CM: GND (Unnecessity of V·H_{SYNC})

8-2-1. Timing characteristics 1), 3), 4)

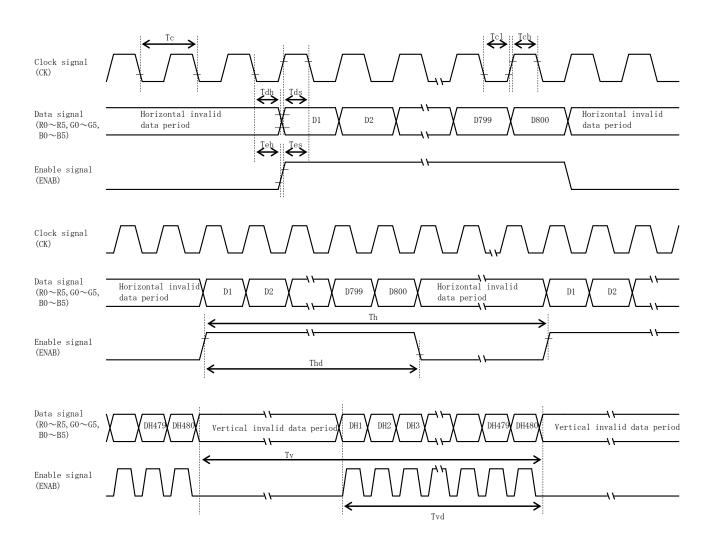
	Item	Symbol	Min.	Тур.	Max.	Unit	Note
	Frequency	Fck	29.88	33.2	36.52	MHz	2)
Clock	Period	Тс	27.4	30.1	33.5	ns	
	High time	Tch	12	-	-	ns	
	Low time	Tcl	12	-	-	ns	
Data	Set up time	Tds	5	-	-	ns	
Data	Hold time		10	-	-	ns	
	Set up time	Tes	5	-	-	ns	
	Hold time	Teh	10	-	-	ns	
	Period	Th	1024	1056	1088	Tc	5), 6)
Enable	Period	1 n	•	31.8	•	μ s	5)
Enable	Horizontal display period	Thd	800			Тс	6)
	Period	Tv	487	525	550	Th	5)
	r erioù	1 V	14.7	16.6	17.4	ms	ο <i>)</i>
	Vertical display period	Tvd		480		Th	

- 1) In case of lower frequency, the deterioration of the display quality, flicker etc., may occur.
- 2) If CK is fixed to "H" or "L" level for certain period while ENAB is supplied, the panel may be damaged.
- 3) When dimming LED by PWM, please adjust LCD operating signal timing and LED driving frequency, to optimize the display quality. There is a possibility that flicker is observed by the interference of LCD operating signal timing and LED driving condition (especially driving frequency), even if the condition satisfies above timing specification.
- 4) Do not make Tv, Th, and Thp fluctuate.
- 5) CK count of each Horizontal Scanning Time should be always the same. Vertical invalid data period should be "n" X "Horizontal Scanning Time" . (n: integer) Frame period should be always the same.

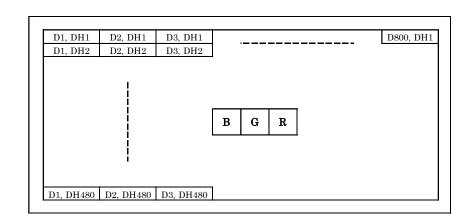


Spec No.	Part No.	Page
TQ3C-8EAF0-E1YAB33-00	TCG085WVLQDPNN-GN00-EA	11

8-2-2. Input timing characteristics



8-3. Input data signals and display position on the screen





Spec No.	Part No.	Page
TQ3C-8EAF0-E1YAB33-00	TCG085WVLQDPNN-GN00-EA	12

9. Backlight characteristics

Item		Symbol	Min.	Тур.	Max.	Unit	Note
Forward current	1)	IF	1	60	-	mA	Ta=-20~70°C
			-	29.2	32.0	V	IF=60mA, Ta=-20°C
Forward voltage	1)	VF	-	27.7	30.6	V	IF=60mA, Ta=25℃
			-	26.8	29.7	V	IF=60mA, Ta=70℃
Operating life time	2), 3)	Т	-	100,000	-	h	IF=60mA, Ta=25℃

- 1) For each "AN-CA"
- 2) When brightness decrease 50% of minimum brightness.

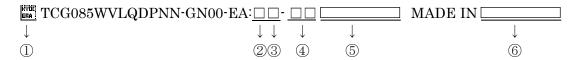
 The average life of a LED will decrease when the LCD is operating at higher temperatures.
- 3) Life time is estimated data. (Condition : IF=60mA, Ta=25 $^{\circ}$ C in chamber).
- 4) An input current below 15mA may reduce the brightness uniformity of the LED backlight. This is because the amount of light from each LED chip is different. Therefore, please evaluate carefully before finalizing the input current.



Spec No.	Part No.	Page
TQ3C-8EAF0-E1YAB33-00	TCG085WVLQDPNN-GN00-EA	13

10. Lot number identification

The lot number shall be indicated on the back of the backlight case of each LCD.



No.① - No.⑥ above indicate

- ① Data matrix (For internal control purpose only)
- 2 Year code (The last digit of the year)
- 3 Month code
- 4 Day code
- (5) Version number (Max. 7 characters)
- 6 Country of origin

③ Month code

Month	Jan.	Feb.	Mar.	Apr.	May	Jun.
Code	1	2	3	4	5	6

Month	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Code	7	8	9	X	Y	Z

11. Warranty

11-1. Incoming inspection

Please inspect the LCD within one month after your receipt.

11-2. Production warranty

Kyocera warrants its LCD's for a period of 12 months from the ship date. Kyocera shall, by mutual agreement, replace or re-work defective LCD's that are shown to be Kyocera's responsibility.



Spec No.	Part No.	Page
TQ3C-8EAF0-E1YAB33-00	TCG085WVLQDPNN-GN00-EA	14

12. Precautions for use

12-1. Installation of the LCD

- 1) A transparent protection plate shall be added to protect the LCD and its polarizer.
- 2) The LCD shall be installed so that there is no pressure on the LSI chips.
- 3) Since this product is wide viewing product, occurrence level of in-plane unevenness by the external stress is different compared to current normal viewing product. So there is a possibility that in-plane unevenness will be occurred by over twist, strain giving by attaching to LCD, and over pressure to touch panel. Please be careful of stress when designing the housing.
- 4) A transparent protection sheet is attached to the polarizer. Please remove the protection film slowly before use, paying attention to static electricity.

12-2. Static electricity

- 1) Since CMOS ICs are mounted directly onto the LCD glass, protection from static electricity isrequired.
- 2) Workers should use body grounding. Operator should wear ground straps.

12-3. LCD operation

- 1) The LCD shall be operated within the limits specified. Operation at values outside of these limits may shorten life, and/or harm display images.
- 2) Please select the best display pattern based on your evaluation because flicker, lines or nonuniformity or unevenness can be visible depending on display patterns.

12-4. Storage

- The LCD shall be stored within the temperature and humidity limits specified.
 Store in a dark area, and protect the LCD from direct sunlight or fluorescent light.
- 2) Always store the LCD so that it is free from external pressure onto it.

12-5. Usage

- 1) <u>DO NOT</u> store in a high humidity environment for extended periods. Polarizer degradation bubbles, and/or peeling off of the polarizer may result.
- 2) The front polarizer is easily scratched or damaged. Prevent touching it with any hard material, and from being pushed or rubbed.
- 3) The LCD screen may be cleaned by wiping the screen surface with a soft cloth or cotton pad using a little Ethanol.
- 4) Water may cause damage or discoloration of the polarizer. Clean condensation or moisture from any source immediately.
- 5) Always keep the LCD free from condensation during testing. Condensation may permanently spot or stain the polarizer.
- 6) Do not disassemble LCD because it will result in damage.
- 7) This Kyocera LCD has been specifically designed for use in general electronic devices, but not for use in a special environment such as usage in an active gas. Hence, when the LCD is supposed to be used in a special environment, evaluate the LCD thoroughly beforehand and do not expose the LCD to chemicals such as an active gas.
- 8) Please do not use solid-base image pattern for long hours because a temporary afterimage may appear. We recommend using screen saver etc. in cases where a solid-base image pattern must be used.
- 9) Liquid crystal may leak when the LCD is broken. Be careful not to let the fluid go into your eyes and mouth. In the case the fluid touches your body; rinse it off right away with water and soap.



Spec No.	Part No.	Page
TQ3C-8EAF0-E1YAB33-0	0 TCG085WVLQDPNN-GN00-EA	15

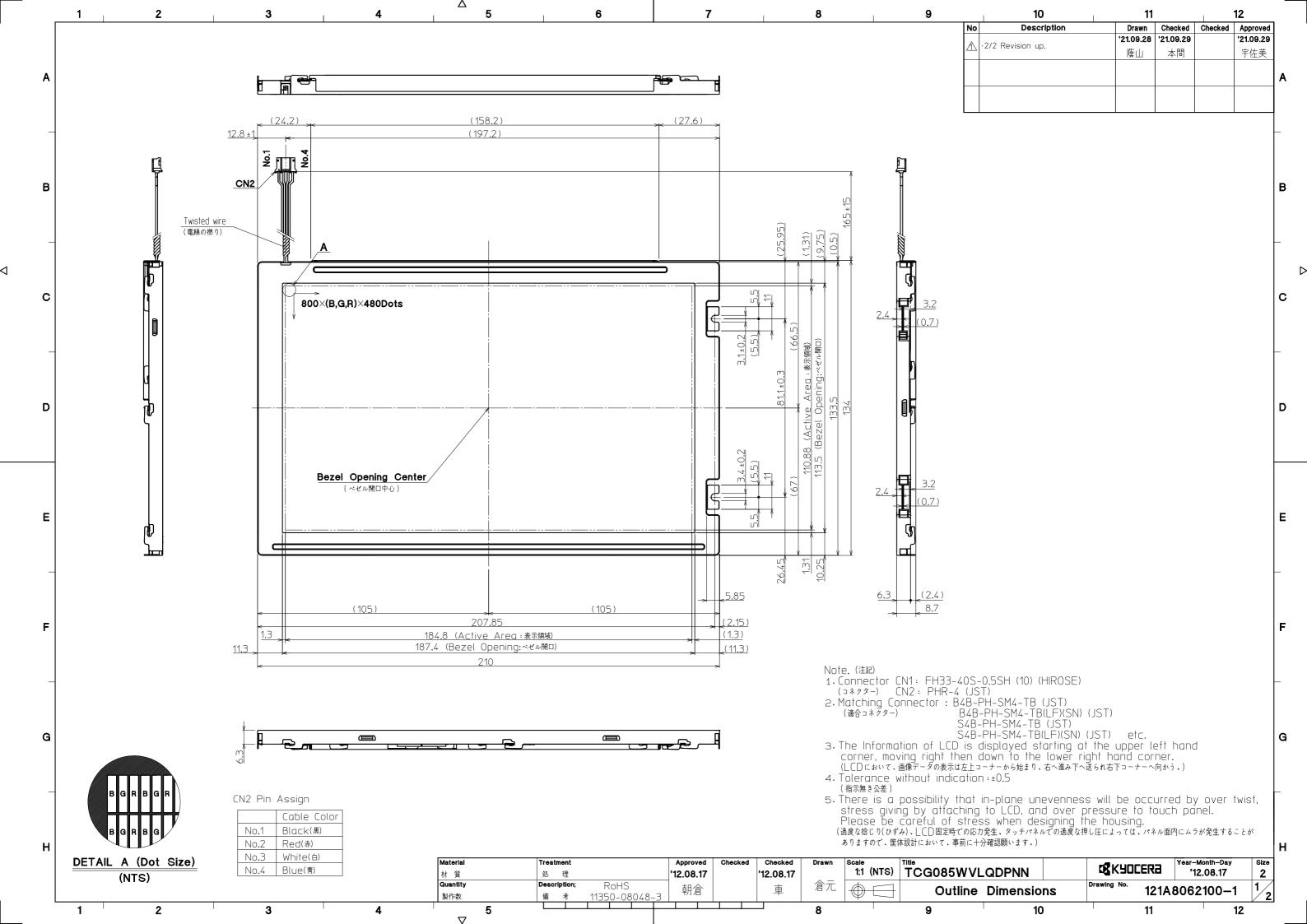
13. Reliability test data

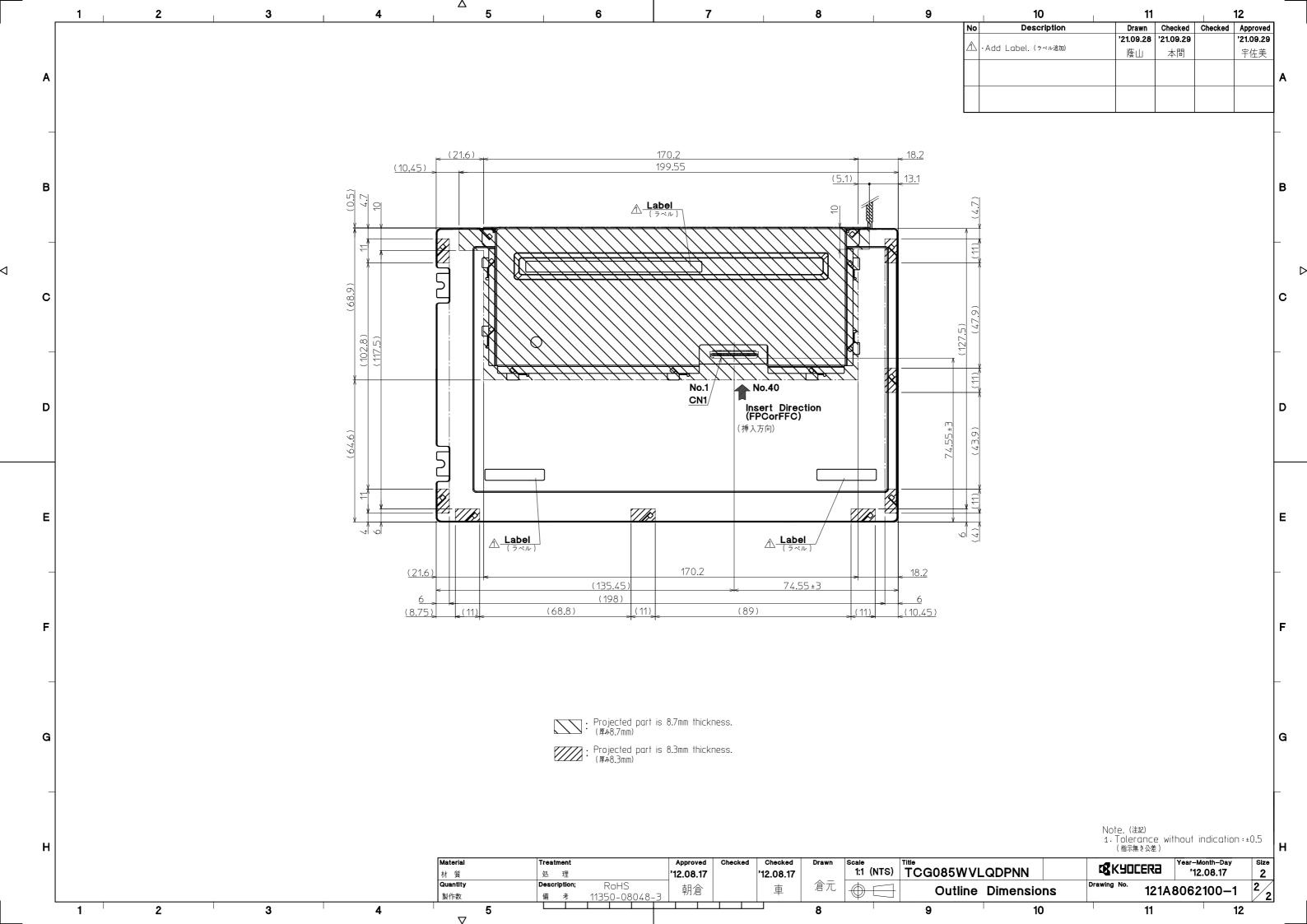
Test item	Test condition	Test time	Jud	gement
High temp. atmosphere	80°C	240h	Display function Display quality Current consumption	: No defect : No defect : No defect
Low temp. atmosphere	-30°C	240h	Display function Display quality Current consumption	No defectNo defectNo defect
High temp. humidity atmosphere	40°C 90% RH	240h	Display function Display quality Current consumption	: No defect : No defect : No defect
Temp. cycle	-30°C 0.5h R.T. 0.5h 80°C 0.5h	10cycles	Display function Display quality Current consumption	: No defect : No defect : No defect
High temp. operation	70°C	500h	Display function Display quality Current consumption	No defectNo defectNo defect

- 1) Each test item uses a test LCD only once. The tested LCD is not used in any other tests.
- 2) The LCD is tested in circumstances in which there is no condensation.
- 3) The reliability test is not an out-going inspection.
- 4) The result of the reliability test is for your reference purpose only.

 The reliability test is conducted only to examine the LCD's capability.







Spec No.	TQ3C-8EAF0-E2YAB33-00
Date	Mar 28, 2022

KYOCERA INSPECTION STANDARD

TYPE: TCG085WVLQDPNN-GN00-EA

KYOCERA CORPORATION

Original	Designed by : Engineering dept.			Confirmed by : QA dept.	
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TQ3C-8EAF0-E2YAB33-00	TCG085WVLQDPNN-GN00-EA	-

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Spec No.	Part No.	Page
TQ3C-8EAF0-E2YAB33-00	TCG085WVLQDPNN-GN00-EA	1

Visuals specification

1) Note

1) Note			Note			
General	Customer identified anomalies not defined within this inspection standard shall be					
	reviewed by Kyocera, and an additional standard shall be determined by mutual consent.					
	2. This inspection standard about the image quality shall be applied to any defect within the					
	active area and shall not be applicable to outside of the area.					
	3. Inspection conditions					
	Lumina		: 500 Lux min.			
		ion distance	300 mm.			
	Temper		: 25 ± 5℃			
	Direction		Directly above			
Definition of	Dot defect	Bright dot defect	The dot is constantly "on" when power applied to the			
	Dot defect	Dright dot defect	LCD, even when all "Black" data sent to the screen.			
inspection						
item			Inspection tool: 5% Transparency neutral density filter.			
			Count dot: If the dot is visible through the filter.			
			Don't count dot: If the dot is not visible through the			
			filter.			
			There is an electrode in the middle of the dot			
			RGBRGBRGB and one dot is shown in the left drawing.			
		Black dot defect	The dot is constantly "off" when power applied to the			
		Diack dot defect	LCD, even when all "White" data sent to the screen.			
			Similar size compared to bright dot.			
		White dot	Pixel works electrically, however, circular/foreign			
		(Circular/foreign	particle makes dot appear to be "on" even when all			
		particle)	"Black" data is sent to the screen.			
		Adjacent dot	Adjacent dot defect is defined as two or more bright dot			
		Aujacent dot	defects or black dot defects.			
			defects of black dot defects.			
			RGBRGB			
			R G B R G B dot defect			
			R G B R G B			
	External	Bubble, Scratch,	Visible operating (all pixels "Black" or "White") and non			
	inspection	Foreign particle	operating.			
		(Polarizer, Cell, Backlight)				
		Appearance inspection	Does not satisfy the value at the spec.			
	Definition	Definition of cir	rcle size Definition of linear size			
	of size	<u> </u>	1			
		To be	<u>. </u>			
			 			
		2/				
		¥				
		a: major axis, b:	minor axis			
		d = (a + b)	/ 2			



Spec No.	Part No.	Page
TQ3C-8EAF0-E2YAB33-00	TCG085WVLQDPNN-GN00-EA	2

2) Standard

Classification		Inspection item		Judgement standard				
Defect Single		Bright dot defect		Acceptable number : 4				
(in LCD	dot			Bright dot spacing		: 5 mm	or more	
glass)		Black dot	defect	Acceptable number		: 5		
O				Black dot spacing		: 5 mm	or more	
	Adjacent dot	2 dots Bright dot defect		Acceptable number				
			Black dot defect	Acceptable number		: 3		
		3 or more	dots	Acceptable number		: 0		
	Total dot	defects		Acceptable number		: 5 Ma	X	
	Others	White dot,	Dark dot					
		(Circle)		Size (mm	1)	Ac	ceptable number	
		(011010)		d ≦	0.2		(Neglected)	
				0.2 < d ≦	0.4		5	
				0.4 < d ≦	0.5		3	
				0.5 < d			0	
External	inspection	Polarizer ((Scratch)					
(Defect or	-	Total Bel (Scratter)		Width (mm)	Length (mm)	Acceptable number	
Polarizer				$W \leq 0.1$			(Neglected)	
between I				$0.1 < W \le 0.3$	I. ≤	≦ 5.0	(Neglected)	
					5.0 < L	_ 0.0	0	
and LCD	giass)			0.3 < W		- 0		
			(D.111.)			1	•	
		Polarizer (Bubble)						
				Size (mm)		Acceptable number		
				d ≦				
				$0.2 < d \le 0.3$		5		
				$0.3 < d \le 0.5$		3		
				0.5 < d		0		
		Foreign pa						
		(Circular shape)		Size (mm)		Acceptable number		
				d ≦ 0.2		(Neglected)		
				$0.2 < d \le 0.4$		5		
				$0.4 < d \le 0.5$		3		
				0.5 < d		0		
		Foreign pa	article					
		(Linear s		Width (mm)	Length	(mm)	Acceptable number	
		Scratch		$W \leq 0.03$		/	(Neglected)	
		Scratch		VV ≅ 0.03		≦ 2.0	(Neglected)	
				$0.03 < W \le 0.1$	2.0 < L		3	
					4.0 < L		0	
				0.1 < W			(According to	
							circular shape)	
		Color varia	ation	Not to be significantl	v vieiblo		-47	
		(Mura)	av1011	Consultation shall be	-	000***		
(Mura)			Consultation shall be	neiu as nece	ssary.			



Document No.	TQ3C-8EAF0-E3YAB33-00		
Date	Mar 28, 2022		

KYOCERA PACKAGING STANDARD

TYPE: TCG085WVLQDPNN-GN00-EA

KYOCERA CORPORATION

Original	Designed by:	Engineering de	Confirmed by: QA dept.		
Issue Date	Prepared	Checked	Approved	Checked	Approved
Mar 28, 2022	I. Kawajiri	M. Iwasaki	A. Iwasaki	Y. Aritsubo	M. Kinouchi



Document No.	Part No.	Page
TQ3C-8EAF0-E3YAB33-00	TCG085WVLQDPNN-GN00-EA	-

Revision record

Date				Confirmed by : QA dept.			
	Date	Prepa	red	Checked	Approved	Checked	Approved
D. M	D +	D			D : .:		
RevNo.	Date	Page			Description	ons	

TCG085WVL (without Touch Panel)_Packaging Standard 1. How to store LCDs in the pad Pad Anti-static bag Number of storage Max. 2 pcs/ Pad

TCG085WVL (without Touch Panel)_Packaging Standard

2. How to store LCDs in the outer case Corrugated cardboard pad Partition board Mat Corrugated cardboard pad The pad which the products are stored Outer case Number of storage Max.20 pcs/ Case 3. Location of the labels Single-sided tape PP band Confirmation label 客先 京セラ株式会社 Shipping label 品名 数量 検査者 検査者 (Check)