

SPEC for Mass Production

Spec No.	TQ3C-8EAF0-E1YAN50-02
Date	December 11, 2025

TYPE : TCG057QVLC PANN-GN00
< 5.7 inch QVGA transmissive color TFT
with LED backlight >

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KYOCERA CORPORATION

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

Original Issue Date	Designed by: Engineering dept.			Confirmed by: QA dept.
	Prepared	Checked	Approved	Approved
August 6, 2021	<i>Y. Yamazaki</i>	<i>Y. Hata</i>	<i>I. Kawajiri</i>	<i>T. Sawada</i>

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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.

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Revision record

Date		Designed by: Engineering dept.			Confirmed by: QA dept.
		Prepared	Checked	Approved	Approved
December 11, 2025		<i>Y. Yamazaki</i>	<i>Y. Hata</i>	<i>I. Kawajiri</i>	<i>T. Sawada</i>
Rev. No.	Date	Page	Descriptions		
01	Nov. 18, 2022	4	6. Optical characteristics Revise the brightness condition.		
		10	9. Backlight characteristics Add LED formation.		
02	Dec. 11, 2025	-	Removed "CONFIDENTIAL" notation		
		2	4-2. Environmental absolute maximum ratings Revised operating temperature range description and notes		
		2-5, 10	Changed symbols Temp. → Ta Ta → Temp.		
		6	7-1. LCD Added "CN1" designation to LCD connector description		
		7	7-2. LED Added "CN2" designation to LCD connector and matching connector description		
		8	8. Input timing characteristics Revised item names for terminology consistency, added symbols, and corrected note numbering in the Note section		
		10	9. Backlight characteristics Revised temperature description.		

1. Application

This document defines the specification of TCG057QVLCPANN-GN00. (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	Unit
Outline dimensions 1)	144(W)×(104.8)(H)×13(D)	mm
Active area	115.2(W)×86.4(H) (14.4cm/5.7 inch(Diagonal))	mm
Dot format	320×(B,G,R)(W)×240(H)	dot
Dot pitch	0.12(W)×0.36(H)	mm
Base color 2)	Normally White	-
Mass	210	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.

4. Absolute maximum ratings

4-1. Electrical absolute maximum ratings

Item	Symbol	Min.	Max.	Unit
Supply voltage	V _{DD}	0	4.0	V
Input signal voltage 1)	V _{IN}	-0.3	6.0	V
LED forward current 2) 3)	I _F	-	27	mA

1) Input signal : CK, R0~R5, G0~G5, B0~B5, H_{SYNC}, V_{SYNC}, ENAB, R/L, U/D

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	°C
Storage temperature 2)	T _{STO}	-30	80	°C
Operating humidity 3)	H _{OP}	10	4)	%RH
Storage humidity 3)	H _{STO}	10	4)	%RH
Vibration	-	5)	5)	-
Shock	-	6)	6)	-

1) Operating temperature range defines the operation only and the contrast, response time and other display optical characteristics are set at T_a (Ambient Temperature) =25°C.

2) T_a = -30°C < 48h , T_a = 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) T_a ≤ 40°C, 85%RH Max.

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

5)

Frequency	10~55 Hz	Acceleration value (0.3~9 m/s ²)
Vibration width	0.15mm	
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: ±X, ±Y, ±Z

EIAJ ED-2531

6. Optical characteristics

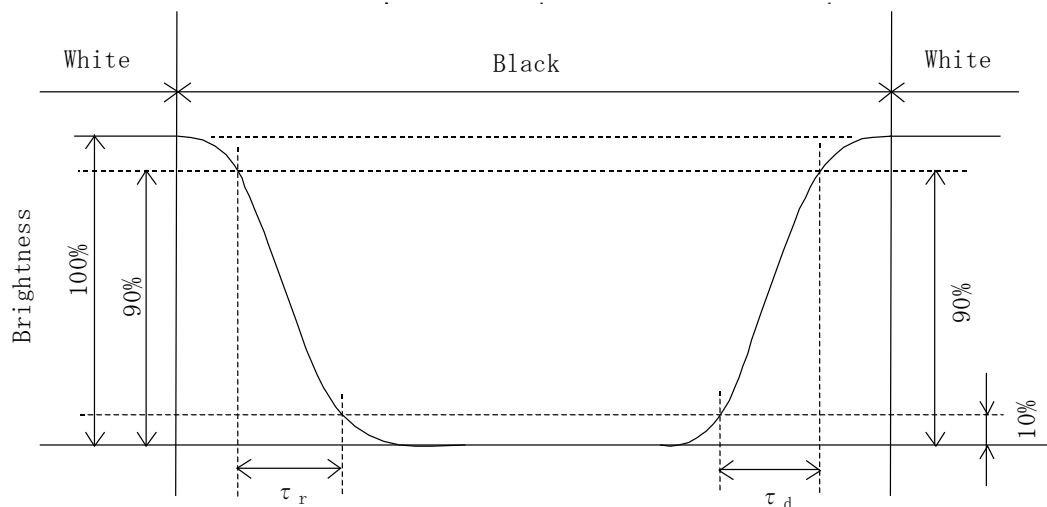
Measuring spot = ϕ 6.0mm, Ta = 25°C

Item	Symbol	Condition	Min.	Typ.	Max.	Unit	
Response time	Rise	τ_r	$\theta = \phi = 0^\circ$	-	10	-	ms
	Down	τ_d	$\theta = \phi = 0^\circ$	-	25	-	ms
Viewing angle range View direction : 12 o'clock (Gray inversion)	θ_{UPPER}	$CR \geq 5$	-	80	-	deg.	
	θ_{LOWER}		-	80	-		
	ϕ_{LEFT}		-	80	-	deg.	
	ϕ_{RIGHT}		-	80	-		
Contrast ratio	CR	$\theta = \phi = 0^\circ$	300	500	-	-	
Brightness	L	IF=25mA/Line	240	350	-	cd/m ²	
Chromaticity coordinates	Red	x	$\theta = \phi = 0^\circ$	0.57	0.62	0.67	-
		y		0.31	0.36	0.41	
	Green	x	$\theta = \phi = 0^\circ$	0.29	0.34	0.39	
		y		0.55	0.60	0.65	
	Blue	x	$\theta = \phi = 0^\circ$	0.09	0.14	0.19	
		y		0.05	0.10	0.15	
	White	x	$\theta = \phi = 0^\circ$	0.29	0.34	0.39	
		y		0.31	0.36	0.41	

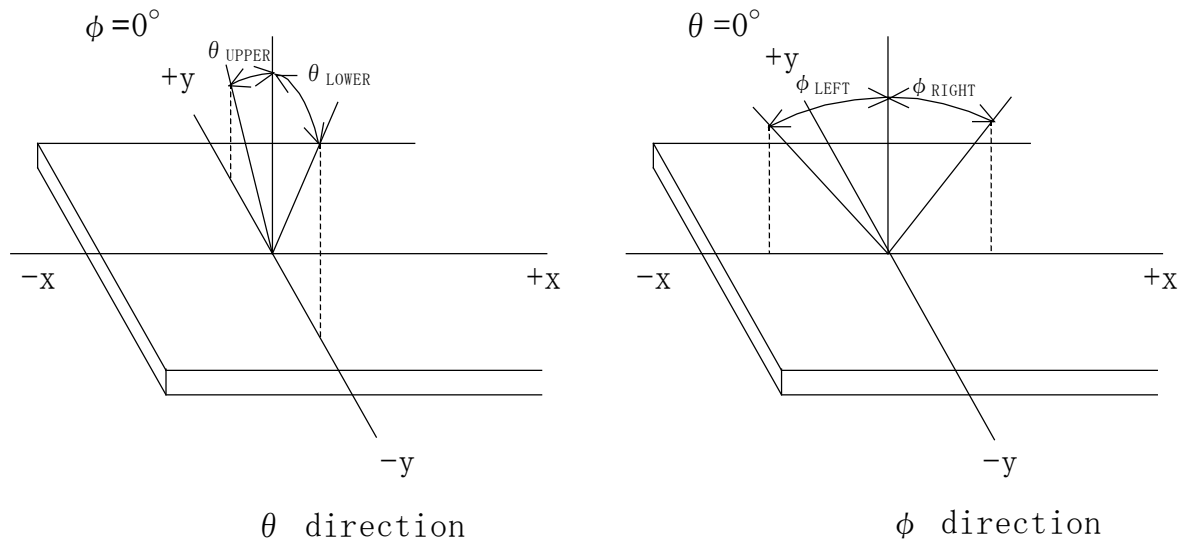
6-1. Definition of contrast ratio

$$CR(\text{Contrast ratio}) = \frac{\text{Brightness with all pixels "White"}}{\text{Brightness with all pixels "Black"}}$$

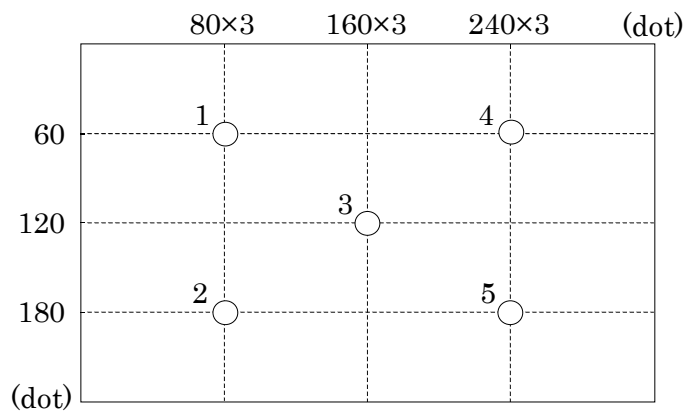
6-2. Definition of response time



6-3. Definition of viewing angle



6-4. Brightness measuring points



- 1) Rating is defined on the average in the viewing area. (measured point 1~5)
- 2) Measured 5 minutes after the LED is powered on. ($T_a = 25^\circ\text{C}$)

7. Interface signals

7-1. LCD

No.	Symbol	Description	I/O	Note
1	GND	GND	-	
2	CK	Clock signal for sampling each data signal	I	
3	H _{SYNC}	Horizontal synchronous signal (negative)	I	
4	V _{SYNC}	Vertical synchronous signal (negative)	I	
5	GND	GND	-	
6	R0	RED data signal (LSB)	I	
7	R1	RED data signal	I	
8	R2	RED data signal	I	
9	R3	RED data signal	I	
10	R4	RED data signal	I	
11	R5	RED data signal (MSB)	I	
12	GND	GND	-	
13	G0	GREEN data signal (LSB)	I	
14	G1	GREEN data signal	I	
15	G2	GREEN data signal	I	
16	G3	GREEN data signal	I	
17	G4	GREEN data signal	I	
18	G5	GREEN data signal (MSB)	I	
19	GND	GND	-	
20	B0	BLUE data signal (LSB)	I	
21	B1	BLUE data signal	I	
22	B2	BLUE data signal	I	
23	B3	BLUE data signal	I	
24	B4	BLUE data signal	I	
25	B5	BLUE data signal (MSB)	I	
26	GND	GND	-	
27	ENAB	Signal to settle the horizontal display position (positive)	I	1)
28	V _{DD}	3.3V power supply	-	
29	V _{DD}	3.3V power supply	-	
30	R/L	Horizontal display mode select signal L: Normal, H: Left / Right reverse mode	I	2)
31	U/D	Vertical display mode select signal H: Normal, L: Up / Down reverse mode	I	2)
32	NC	No connect	I	
33	GND	GND	-	

LCD connector (CN1) : 08 6210 033 340 800+ (KYOCERA)

Recommended matching FFC or FPC : 0.5mm pitch

- 1) The horizontal display start timing is settled in accordance with a rising timing of ENAB signal.
In case ENAB is fixed "Low", the horizontal start timing is determined.
Don't keep ENAB "High" during operation.

2)



R/L = L
U/D = H



R/L = H
U/D = H



R/L = L
U/D = L



R/L = H
U/D = L

7-2. LED

No.	Symbol	Description
1	AN1	Anode1
2	AN2	Anode2
3	AN3	Anode3
4	CA1	Cathode1
5	CA2	Cathode2
6	CA3	Cathode3

LCD side connector (CN2) : SHLP-06V-S-B (JST)

Recommended matching connector (CN2)

: SM06B-SHLS-TF (JST)

: SM06B-SHLS-TF(LF)(SN) (JST) ··(RoHS Compliant)

8. Input timing characteristics

8-1. Timing characteristics

Item		Symbol	Min	Typ	Max	Unit	Note
Clock signal (CK)	Frequency	1/Tc	—	6.3	7.0	MHz	1) 2)
	Duty ratio	Tch/Tc	40	50	60	%	
Data signal (R0-R5, G0-G5, B0-B5)	Set up time	Tds	5	—	—	ns	
	Hold time	Tdh	10	—	—	ns	
Horizontal sync. Signal (H _{SYNC})	Cycle	TH	50.0	63.6	—	μs	
			360	400	450	clock	
	Pulse width	THp	2	96	200	clock	
Vertical sync. Signal (V _{SYNC})	Cycle	TV	251	262	280	line	
	Pulse width	TVp	2	—	34	line	
Horizontal display period		THd	320			clock	
Hsync. - Clock phase difference		THc	10	—	Tc-10	ns	
Hsync. - Vsync. phase difference		TVh	Tc	—	TH-THp	ns	
Vertical sync. signal start position		TVs	7			line	
Vertical display period		TVd	240			line	

- 1) If the display is used under the condition which is out of specifications such as higher clock frequency than specified value, there is a possibility phenomenon such as display error including white display, malfunction and no image may occur.
- 2) In case of lower frequency, the deterioration of the display quality, flicker etc., may occur.

8-2. Horizontal display position

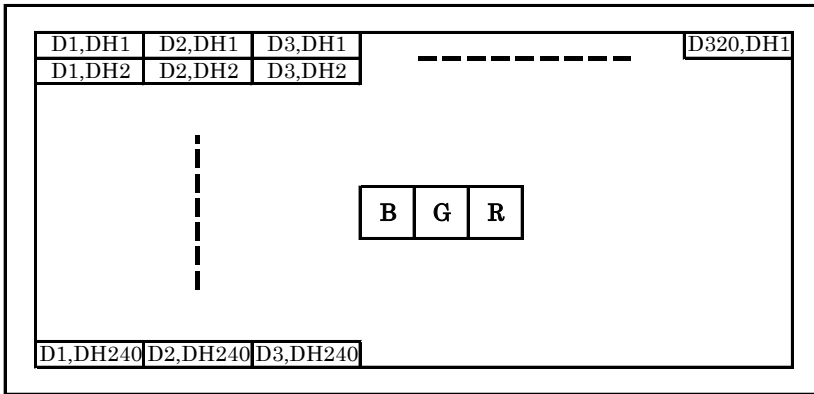
Item		Symbol	Min	Typ	Max	Unit	Note
Data Enable signal (ENAB)	Set up time	Tes	5	—	Tc-10	ns	
	Pulse width	Tep	2	320	TH-10	clock	
H _{SYNC} - Data Enable signal phase difference		The	2	—	TH-340	clock	

- 1) When ENAB is fixed at "Low", the display starts from the data of C52 (clock) as shown in 8-5.
- 2) The horizontal display position is determined by ENAB signal.

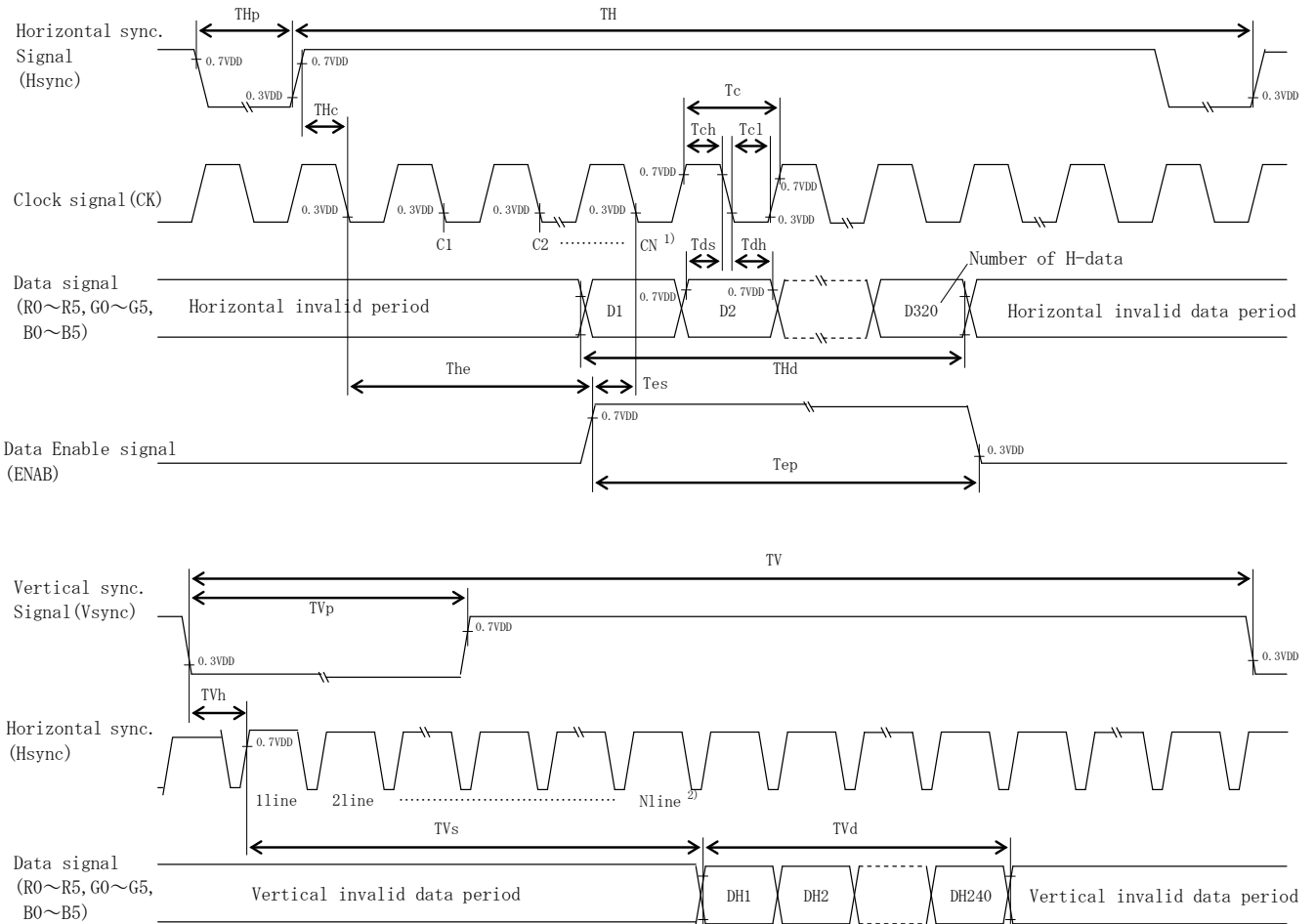
8-3. Vertical display position

- 1) The vertical display position (TVs) is 7th line.
- 2) ENAB signal is independent of vertical display position.

8-4. Input data signals and display position on the screen



8-5. Input timing characteristics



- 1) When ENAB is fixed at “Low”, the display starts from the data of C52 (Clock).
- 2) The vertical display position (TVs) is fixed at 7th line.

9. Backlight characteristics

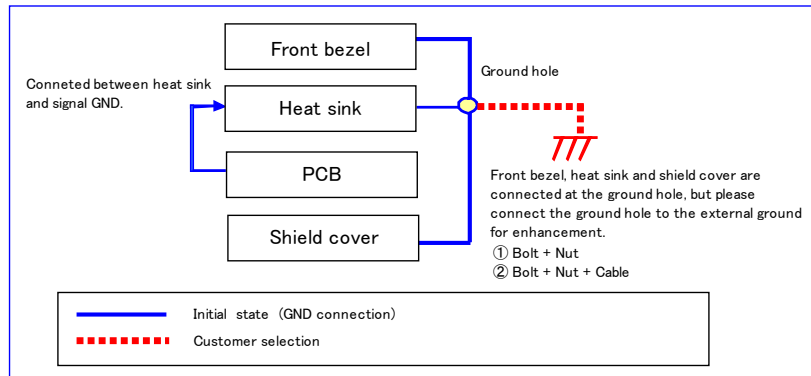
Item	Symbol	Min.	Typ.	Max.	Unit	Note
Forward current 1)	IF	-	25	-	mA	Ta=-20~70°C
Forward voltage 1)	VF	-	24.5	27.3	V	IF=25mA, Ta=-20°C
		-	23.1	25.9	V	IF=25mA, Ta=25°C
		-	22.1	24.9	V	IF=25mA, Ta=70°C
Operating life time 2), 3)	T	-	50,000	-	h	IF=25mA, Temp.=25°C

- 1) For each "AN-CA"
- 2) When brightness decrease 50% of minimum brightness.
- 3) Life time is estimated data. (Condition: IF=25mA, Temp.=25°C in chamber).
- 4) An input current below 8.0mA 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.
- 5) LED formation: 7 series, 3 parallel

12. Precautions for use

12-1. Installation of the LCD

- 1) The LCD has a grounding hole. Please ground the LCD to prevent noise and to stabilize its performance as circumstances demand.



- 2) A transparent protection plate shall be added to protect the LCD and its polarizer
- 3) The LCD shall be installed so that there is no pressure on the LSI chips.
- 4) The LCD shall be installed flat, without twisting or bending.
- 5) Please refer to the following our recommendable value of Clamp-down torque when installing.
Clamp-down torque : $0.32 \pm 0.03 \text{N} \cdot \text{m}$
Please set up 'SPEED-LOW', 'SOFT START-SLOW' when using electric driver.
Recommendable screw JIS tapping screw two types nominal dia.3.0mm installing boss hole depth $3.5 \pm 0.5 \text{mm}$
Please be careful not to use high torque which may damage LCD in installation.
- 6) 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 is required.
- 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.

12-4. Storage

- 1) 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

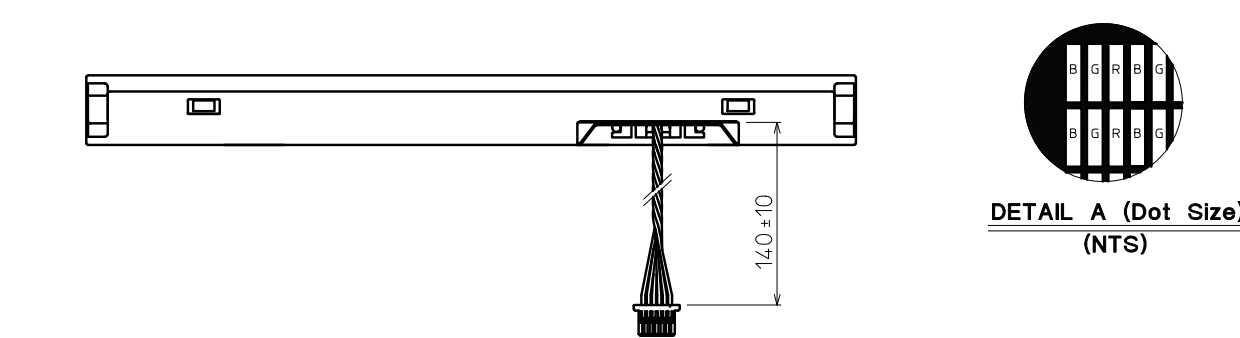
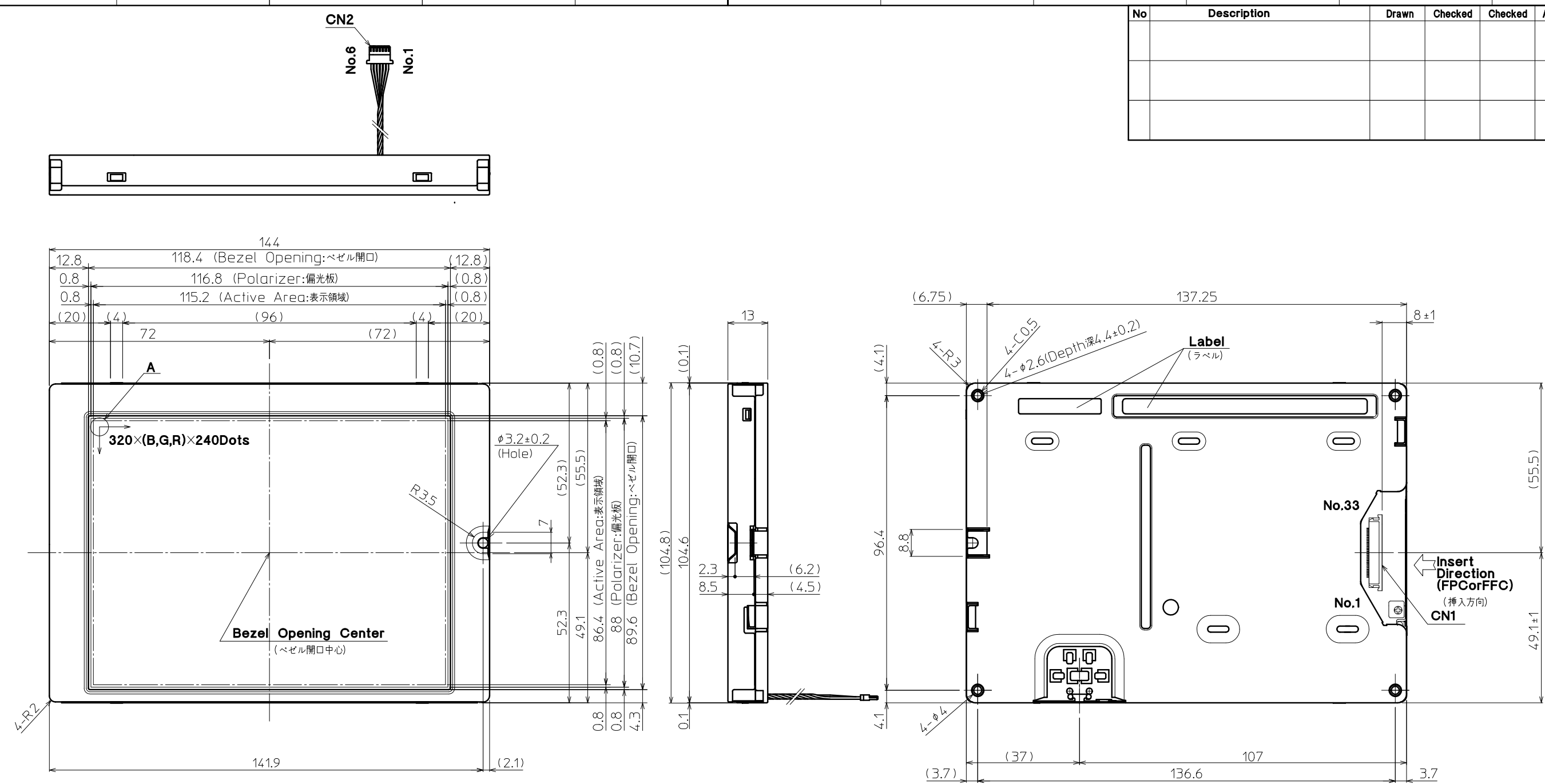
- 1) **DO NOT** store in a high humidity environment for extended periods. Polarizer degradation bubbles, and/or peeling off of the polarizer may result.
- 2) The front polarizer is easily scratched or damaged. Prevent touching it with any hard material, and from being pushed or rubbed.
- 3) The LCD 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 pull the LED lead wires and do not bend the root of the wires. Housing should be designed to protect LED lead wires from external stress.
- 7) Do not disassemble LCD because it will result in damage.
- 8) 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.
- 9) 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.
- 10) 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.

13. Reliability test data

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

No	Description	Drawn	Checked	Checked	Approved



CN2 Pin Assign

Pin No.	Cable Color
No.1	Black(黒)
No.2	Red(赤)
No.3	White(白)
No.4	Black(黒)
No.5	Red(赤)
No.6	White(白)

Note. (注記)

- Connector CN1: 08 6210 033 340 800A+ (KYOCERA) (コネクタ) CN2: SHLP-06V-S-B (JST)
- Matching Connector CN2: SM06B-SHLS-TF (JST) (適合コネクタ) SM06B-SHLS-TF(LF)(SN) (JST)
- The Information of LCD is displayed starting at the upper left hand corner, moving right then down to the lower right hand corner. (LCDにおいて、画像データの表示は左上コーナーから始まり、右へ進み下へ送られ右下コーナーへ向かう。)
- Tolerance without indication: ±0.5 (指示無き公差)

Material	Treatment	Approved	Checked	Checked	Drawn	Scale	Title	Year-Month-Day	Size
材質	処理	'20.12.25		'20.12.25	蔭山	1:1(NTS)	TCG057QVLC PANN	'20.12.23	2
Quantity	Description;	RoHS	宇佐美	本間	蔭山		Outline Dimensions		
製作数	備考	15017-03224					Drawing No.	121A9017200	

Spec No.	TQ3C-8EAF0-E2YAN50-01
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KYOCERA INSPECTION STANDARD

TYPE : TCG057QVLCPANN-GN00

KYOCERA CORPORATION

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August 6, 2021	<i>Y. Yamazaki</i>	<i>Y. Hata</i>	<i>I. Kawajiri</i>	<i>T. Sawada</i>

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December 11, 2025		<i>Y. Yamazaki</i>	<i>Y. Hata</i>	<i>I. Kawajiri</i>	<i>T. Sawada</i>
Rev. No.	Date	Page	Descriptions		
01	Dec. 11, 2025	—	Removed "CONFIDENTIAL" notation		
		1	General Added inspection conditions for ND filter		
			Black dot defect Changed "Black dot defect" to "Black dot defect (including circular ones)" and added description		
		2	Defect (in LCD glass) Changed "White dot, Dark dot (Circle)" to "Circular white dots and circular black dots"		
Color variation (Mura) Clarified judgement standard					

Visuals specification

1) Note

		Note		
General	<p>1. Customer identified anomalies not defined within this inspection standard shall be reviewed by Kyocera, and an additional standard shall be determined by mutual consent.</p> <p>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.</p> <p>3. Inspection conditions Luminance: 500 Lux min. Inspection distance (H1): 300 mm Distance between LCD panel surface and ND filter (H2): $0 < H2 < 30$ mm *ND filters are placed parallel to the LCD panel. Temperature: $25 \pm 5^\circ\text{C}$ Direction: Directly above</p>			
Definition of inspection item	Dot defect	Bright dot defect	<p>The dot is constantly “on” when power applied to the LCD, even when all “Black” data sent to the screen.</p> <p>Inspection tool: 5% Transparency neutral density filter.</p> <p>Count dot: If the dot is visible through the filter.</p> <p>Don't count dot: If the dot is not visible through the filter.</p>	
		Black dot defect (including circular ones)	<p>The dot is constantly “off” when power applied to the LCD, even when all “White” data sent to the screen.</p> <p>Similar size compared to bright dot. Circular black dots shall be evaluated according to the criteria for circular white dots and circular black dots.</p>	
		White dot (Circular/foreign particle)	<p>Pixel works electrically, however, circular/foreign particle makes dot appear to be “on” even when all “Black” data is sent to the screen.</p>	
		Adjacent dot	<p>Adjacent dot defect is defined as two or more bright dot defects or black dot defects.</p>	
	External inspection	Bubble, Scratch, Foreign particle (Polarizer, Cell, Backlight)	Visible operating (all pixels “Black” or “White”) and non operating.	
	Appearance inspection	Does not satisfy the value at the spec.		
Definition of size	Definition of circle size	Definition of linear size		
	<p>a: major axis, b: minor axis $d = (a + b) / 2$</p>			

2) Standard

Classification		Inspection item		Judgement standard				
Defect (in LCD glass)	Single dot	Bright dot defect		Acceptable number	: 4			
		Bright dot spacing		: 5 mm or more				
	Adjacent dot	2 dots	Bright dot defect	Acceptable number	: 5			
			Black dot defect	: 5 mm or more				
		3 or more dots		Acceptable number	: 0			
	Total dot defects		Acceptable number		: 5 Max			
	Others	Circular white dots and circular black dots		Size (mm)		Acceptable number		
$d \leq 0.2$				(Neglected)				
$0.2 < d \leq 0.4$				5				
$0.4 < d \leq 0.5$				3				
$0.5 < d$				0				
External inspection (Defect on Polarizer or between Polarizer and LCD glass)	Polarizer (Scratch)		Width (mm)		Length (mm)		Acceptable number	
			$W \leq 0.1$		-		(Neglected)	
			$0.1 < W \leq 0.3$		$L \leq 5.0$		(Neglected)	
					$5.0 < L$		0	
	$0.3 < W$		-		0			
	Polarizer (Bubble)		Size (mm)		Acceptable number			
			$d \leq 0.2$		(Neglected)			
			$0.2 < d \leq 0.3$		5			
			$0.3 < d \leq 0.5$		3			
	$0.5 < d$		0					
	Foreign particle (Circular shape)		Size (mm)		Acceptable number			
			$d \leq 0.2$		(Neglected)			
			$0.2 < d \leq 0.4$		5			
			$0.4 < d \leq 0.5$		3			
	$0.5 < d$		0					
Foreign particle (Linear shape) Scratch		Width (mm)		Length (mm)		Acceptable number		
		$W \leq 0.03$		-		(Neglected)		
		$0.03 < W \leq 0.1$		$L \leq 2.0$		(Neglected)		
				$2.0 < L \leq 4.0$		3		
$4.0 < L$		0						
$0.1 < W$		-		(According to circular shape)				
Color variation (Mura)		Not visible through 5% ND filter.						

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Date	December 11, 2025

KYOCERA PACKAGING STANDARD

TYPE : TCG057QVLCPANN-GN00

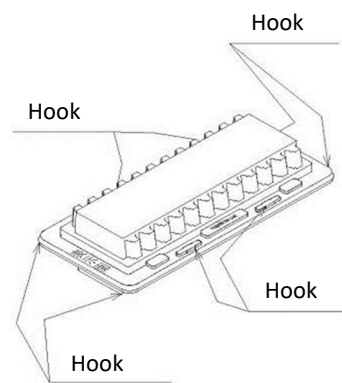
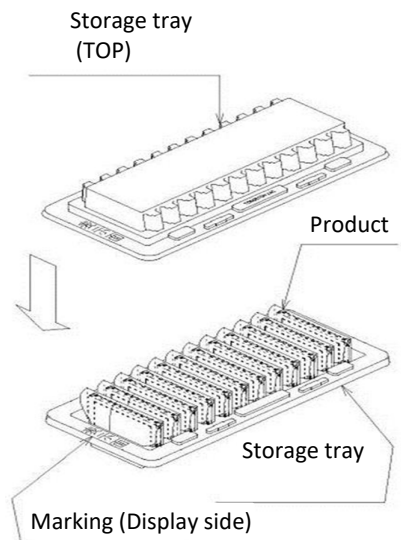
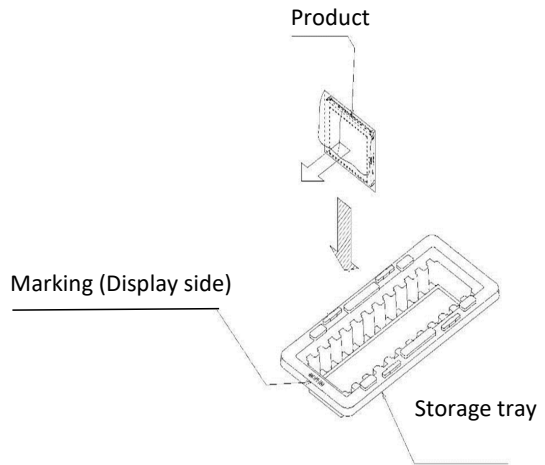
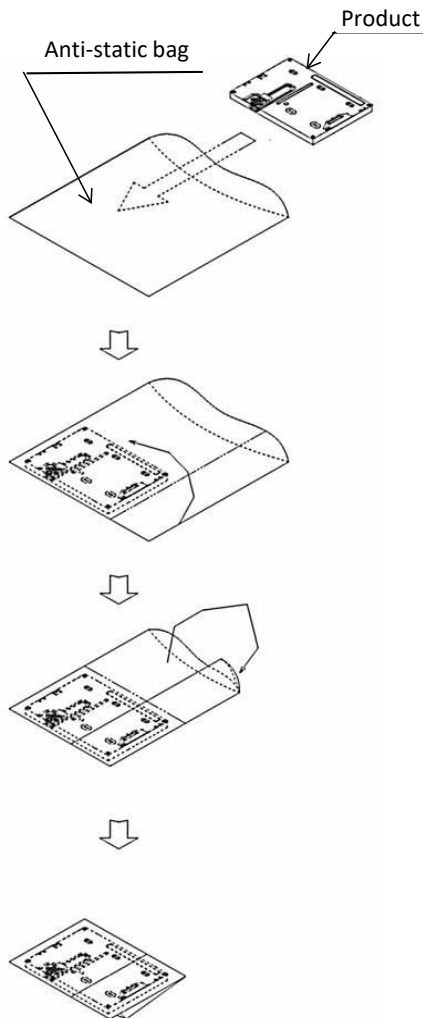
KYOCERA CORPORATION

Original Issue Date	Designed by : Engineering dept.			Confirmed by : QA dept.
	Prepared	Checked	Approved	Approved
August 6, 2021	<i>Y. Yamazaki</i>	<i>Y. Hata</i>	<i>I. Kawajiri</i>	<i>T. Sawada</i>

Revision record

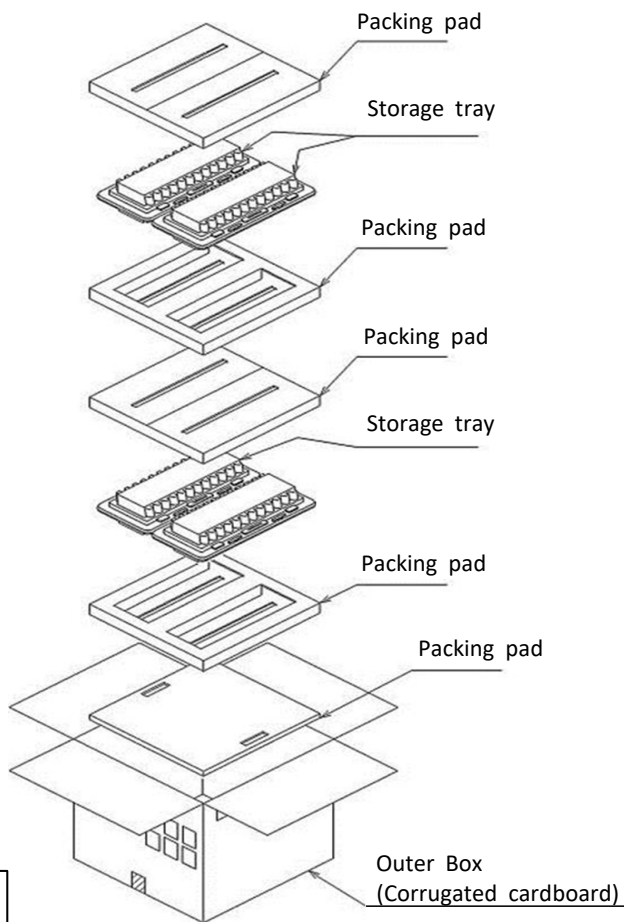
Date		Designed by : Engineering dept.			Confirmed by : QA dept.
		Prepared	Checked	Approved	Approved
December 11, 2025		<i>Y. Yamazaki</i>	<i>Y. Hata</i>	<i>I. Kawajiri</i>	<i>T. Sawada</i>
Rev. No.	Date	Page	Descriptions		
01	Dec. 11, 2025	-	Removed "CONFIDENTIAL" notation		

1. How to store LCDs in the tray



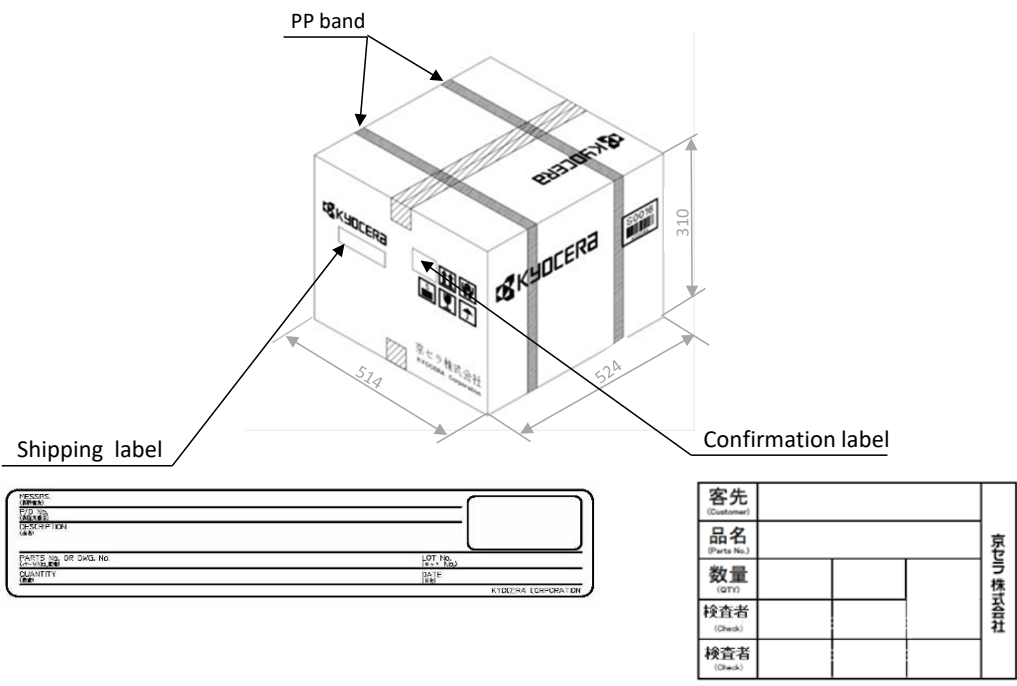
Max. 12 pcs / tray

2. How to store LCDs in the box



Max. 48pcs / outer box

3. Location of the labels



品名 数量 検査者 検査者		KYOCERA CORPORATION
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客先 (Customer)		京セラ株式会社
品名 (Partic. No.)		
数量 (QTY)		
検査者 (Check)		
検査者 (Check)		