

Description of Permissive Change

The application is prepared for FCC class II permissive change for below reasons:

1. Changing LCD part EOL

Applicable LCD & Change point

No change in outline dimension and electric circuit

■ Applicable LCD & Change points

No.	LCD	Project	Item	Change point (Please see next page for details.)	
				Current LCD	Alternative LCD
(1)	LSDYAYY00104	YCA YE3 Y1K YNC	① LCD maker	Nippon seiki	→ JHD
			② LCD type	FSTN	→ ASTN
			③ LCD IC driver	Sitronix	→ UltraChip

Current LCD Nippon seiki



Alternative LCD JHD



Outline dimension & FPC pin same no need to modify PCB and mechanical part

Items	Before	After	Remark
Panasonic Part no.	LSDYAYY00104	LSDYAYY00104	Different
Partner Part number	M076SAB	8808M07022CW	Different
LCD type	Positive	Positive	Same
View angle	55°	45°	Different
Resolution	Seg 256 x com 50	Seg 256 x com 50	Same
Operating Temp	-30℃ to +80℃	-30℃ to +80℃	Same
Driver IC (Inside LCD module)	ST7598-G2-B1 (4 lines interface)	UC1618T(COG)	Different
Supply Voltage	Type : 3.3V	Type : 3.3V	Same
Consumption Current	Type : 4.5mA Max : 8mA	Type : 2mA Max : 3mA	Different
Duty	1/64	1/50	Different
Bias	1/9	1/9	Same
Operating Frequency	Type : 228Hz	Type : 64Hz	Different
ESD (Air discharge)	Max +15KV	Max +15KV	Same
ESD HBD	Max +2KV	Max +2KV	Same

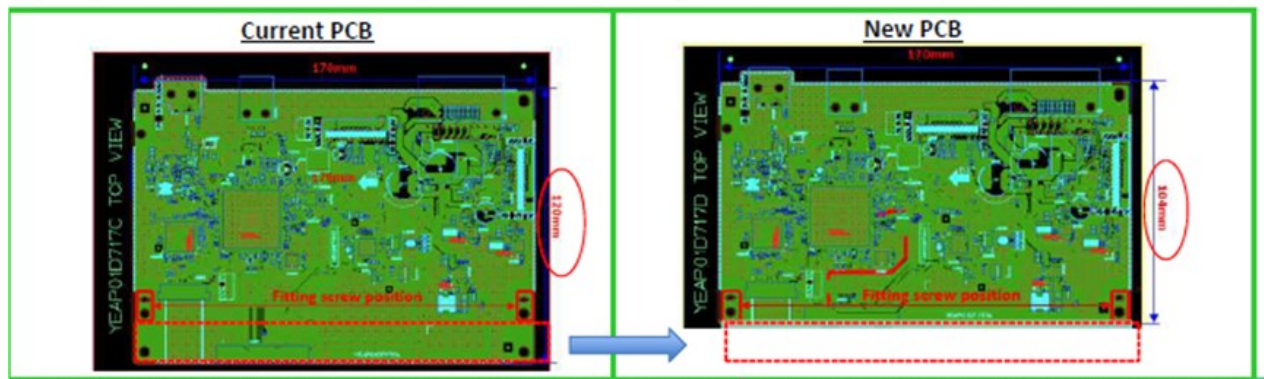
2.Reducing main PCB size

Applicable MAIN PCB & Change point

Outline dimension change not impact with product performance and quality

■ Applicable PCB & Change points

No.	PCB	Project	Items	Change point (Please see next page for details.)		
				Current PCB		New PCB
(1)	YEAP01D717C	YCA	① PCB maker	Meiko	→	Olympic
		YE3	② PCB size	170 X 120mm	→	170X104mm
		Y1K YNC	③ PCB material	FR-4-86	→	FR-4-86



3. Adding one model:CQ-RZNBA0NT

The original grant date is 01/31/2019.

Regards,

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