



Product Change Notification

● Purpose

We would like to notify customers of the following change to several Sharp dust sensor models:

- New supplier of a capacitor used inside dust sensor will be added.

The affected model numbers are:

- GP2Y1010AU0F
- GP2Y1014AU0F
- GP2Y1023AU0F
- GP2Y1026AU0F

These changes are being done in order to stabilize production.

The specifications and reliability will not be changed as a result of this PCN.

There is no change to dust sensor model numbers.

● Effective Time of Change

These are running changes that will be applied to production starting in December, 2020.

● Details

Please refer to the pages that follow for the details of the capacitor-related changes.

If you have any questions concerning this notification, please contact your Socle representatives at: Socle_Sales_NA@socle-tech.com

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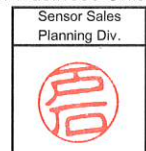
SHARP Products Change Notification

SHARP Fukuyama Semiconductor Co., Ltd.

Thank you very much for adopting our products.

Semiconductor Business Unit

We inform products change notification as follows;




Subject	<u>Announcement of capacitor supplier for dust sensor</u>
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Applicable Product Category	Dust Sensors (7 models)
Changed From	Running change since December 2020 onward (Timing might be updated by market demands)

Please be informed that some suppliers of capacitor mounted on dust sensor which will be added to stable the production.

Please kindly agree this "product change notification".

1. Applicable Models

	Model name		Model name
1	GP2Y1010AU0F	6	GP2Y1024AU0F
2	GP2Y1012AU0F	7	GP2Y1026AU0F
3	GP2Y1014AU0F		
4	GP2Y1014AUVF		
5	GP2Y1023AU0F		

2. Contents of the change

It will be purchased ceramic capacitors used in dust sensor from two companies.

	Supplier name	Capacitance	Size
Current	Murata manufacturing Co., Ltd	2.2 μ F	1608
Addition	Samsung Electro-Mechanics	2.2 μ F	1608

※Please refer to the attachment document(comparison sheet) for details/

3. Reason of changes

In order to stably supply.

The specification and reliability will be not affected by this PCN

Comparison sheet on added capacitorSHARP Fukuyama Semiconductor Co., Ltd.
Semiconductor Business Unit

Applicable Product Category : Dust Sensors

Model : GP2Y1010AU0F、GP2Y1012AU0F、GP2Y1014AU0F、GP2Y1014AUVF、
GP2Y1023AU0F、GP2Y1024AU0F、GP2Y1026AU0F

	Current MLCC	Combine use of Current and New MLCC
Supplier name	Murata manufacturing co.,Ltd	Samsung Electro-Mechanics
Model name	GRM188F11C225ZA01D	CL10A225KO8NNPC
Size code	1608	
Volume	2.2 μ F	
Voltage	16 VDC	
Temp.characteristic	F (JIS standard)	X5R (EIA standard)
	+30/-80% (-25~+85°C)	\pm 15% (-55~+85°C)
Tolerance	-20~80%	\pm 10%
operating temperature	-25~+85 °C	-55~+85 °C

Comparison sheet related on material change for SHARP dust sensor

【Applicable Model】 GP2Y1023AU0F, GP2Y1024AU0F, GP2Y1026AU0F

SHARP Fukuyama Semiconductor Co., Ltd.
Semiconductor Business Unit

		Current Product	New product
Business Model No.		SAME	
SHARP Internal Model No.		SAME	
Country of Origin / Manufacturing Location		SAME (China / Zhuhai Ensei Electronics Co., Ltd.)	
Materials	capacitor to be changed	Supplier	Murata manufacturing co.,Ltd or Samsung Electro-Mechanics
		Size	1608 (SAME)
		Capacitance	2.2 μ F (SAME)
	Other materials		SAME
Electronic spec. (Including absolute maximum rating.)		SAME	
QC process		SAME	
Product Reliability		SAME	
Outline Dimension / Marking		SAME	
Package spec		SAME	

Comparison sheet related on material change for SHARP dust sensor

【Applicable Model】 GP2Y1010AU0F、GP2Y1012AU0F、GP2Y1014AU0F、GP2Y1014AUVF

SHARP Fukuyama Semiconductor Co., Ltd.
Semiconductor Business Unit

		Current Product	New product
Business Model No.		SAME	
SHARP Internal Model No.		SAME	
Country of Origin / Manufacturing Location		SAME (China or Indonesia / Zhuhai Ensei Electronics Co., Ltd. or P. T. Sharp Semiconductor Indonesia)	
Materials	capacitor to be changed	Supplier Murata manufacturing co.,Ltd	Murata manufacturing co.,Ltd or Samsung Electro-Mechanics
	Size	1608 (SAME)	
	Capacitance	2. 2 μ F (SAME)	
	Other materials	SAME	
Electronic spec. (Including absolute maximum rating.)		SAME	
QC process		SAME	
Product Reliability		SAME	
Outline Dimension / Marking		SAME	
Package spec		SAME	