



# Product Change Notification

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## ● Purpose

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

- New suppliers of a capacitor used inside dust sensor will be added.
- The case material for some dust sensor models will be changed.

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 starting in December, 2019.

## ● Details

Please refer to the pages that follow for the details of the capacitor and case material changes.

If you have any questions concerning this notification, please contact your Socle representatives at: [Socle\\_Sales\\_NA@socle-tech.com](mailto:Socle_Sales_NA@socle-tech.com)

## SHARP Products Change Notification

SHARP Fukuyama Semiconductor Co., Ltd.

Thank you very much for adopting our products.

We inform products change notification as follows;

Semiconductor Business Unit

Sensor Sales  
Planning Div.

Subject	<b><u>Announcement of capacitor supplier and case material for dust sensor</u></b>
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Applicable Product Category	<b>Dust Sensors ( 7 models)</b>
Changed From	<b>Running change since December 2019 onward (Timing might be updated by market demands)</b>

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

Also, the case material of the digital output dust sensor will be changed.

Please kindly agree this "product change notification".

### 1. Applicable Model and Changes

Model	Added capacity supplier	Case material change	Note
1 <b>GP2Y1010AU0F</b>	Murata+added Walsin	Not change	
2 <b>GP2Y1011AU0F</b>	Murata+added Walsin	Not change	
3 <b>GP2Y1012AU0F</b>	Murata+added Walsin	Not change	
4 <b>GP2Y1014AU0F</b>	Murata+added Walsin	Not change	
5 <b>GP2Y1023AU0F</b>	Murata+added Walsin	Change	
6 <b>GP2Y1024AU0F</b>	Murata+added Walsin	Change	
7 <b>GP2Y1026AU0F</b>	Not change	Change	

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

### 2. Reason of changes

In order to stably supply.

The specification and reliability will be not affected by this PCN

## Comparison sheet on added capacitor

SHARP Fukuyama Semiconductor Co., Ltd.  
Semiconductor Business Unit

Applicable Product Category : Dust Sensors

Model : GP2Y1010AU0F, GP2Y1011AU0F, GP2Y1012AU0F, GP2Y1014AU0F,  
GP2Y1023AU0F, GP2Y1024AU0F

	Current MLCC	Combine use of Current and New MLCC
Supplier name	Murata manufacturing co.,Ltd	Walsin Technology Corporation
Model name	GRM39CH471J50	0603N471J500CT
Size code	1608	
Volume	470pF	
Voltage	50 V dc	
Temp.characteristic	CH(JIS standard)	NP0(MILstandard)
	±60ppm/°C (+20~+125°C)	±30ppm/°C (-55~+125°C)
Tolerance	±5%	
operating temperature	-55 ~ +125 °C	

Model : GP2Y1023AU0F, GP2Y1024AU0F

	Current MLCC	Combine use of Current and New MLCC
Supplier name	Murata manufacturing co.,Ltd	Walsin Technology Corporation
Model name	GRM188B11C104KA01D	0603B104K160CT
Size code	1608	
Volume	0.1 μF	
Voltage	16 V dc	
Temp.characteristic	B(JIS standard)	X7R(EIA standard)
	±10% (-25~+85°C)	±15% (-55~+125°C)
Tolerance	±10%	
operating temperature	-25 ~ +85 °C	-55 ~ +125 °C

## Comparison sheet related on material change for SHARP dust sensor

**【Applicable Model】GP2Y1010AU0F, GP2Y1011AU0F, GP2Y1012AU0F, GP2Y1014AU0F**

SHARP Fukuyama Semiconductor Co., Ltd.  
Semiconductor Business Unit

			Current Product	New product		
<b>Business Model No.</b>			<b>SAME</b>			
<b>SHARP Internal Model No.</b>			<b>SAME</b>			
<b>Country of Origin ✓ Manufacturing Location</b>			<b>SAME</b> (China or Indonesia) ✓ Zhuhai Ensei Electronics Co., Ltd. or P. T. Sharp Semiconductor Indonesia			
Materials	capacitor	Supplier	Murata manufacturing co.,Ltd	Murata manufacturing co.,Ltd or <b>Walsin Technology Corporation</b>		
		Size	1608 (SAME)			
		Capacitance	470pF (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】GP2Y1023AU0F、GP2Y1024AU0F**

SHARP Fukuyama Semiconductor Co., Ltd.  
Semiconductor Business Unit

		Current Product	New product	
<b>Business Model No.</b>		<b>SAME</b>		
<b>SHARP Internal Model No.</b>		<b>SAME</b>		
<b>Country of Origin ✓ Manufacturing Location</b>		<b>SAME</b> (China or Indonesia ✓ Zhuhai Ensei Electronics Co., Ltd. or P. T. Sharp Semiconductor Indonesia)		
<b>Materials</b>	Capacitor ①	<b>Supplier</b>	Murata manufacturing co.,Ltd or <b>Walsin Technology Corporation</b>	
		Size	1608 (SAME)	
		Capacitance	<b>470pF (SAME)</b>	
	Capacitor ②	<b>Supplier</b>	Murata manufacturing co.,Ltd or <b>Walsin Technology Corporation</b>	
		Size	1608 (SAME)	
		Capacitance	<b>0. 1uF (SAME)</b>	
	Case materials	Supplier	SAME	
		素材	ABS (SAME)	
		Part number	Different ( not disclosed)	
Other materials		SAME		
Electronic spec. (Including absolute maximum rating.)		SAME		
QC process		SAME		
Product Reliability		SAME		
Package spec		SAME		

## Comparison sheet related on material change for SHARP dust sensor

### 【Applicable Model】 GP2Y1026AU0F

SHARP Fukuyama Semiconductor Co., Ltd.  
Semiconductor Business Unit

		Current Product	New product
Business Model No.		GP2Y1026AU0F (SAME)	
SHARP Internal Model No.		GP2Y1026AU0F6 (SAME)	
Country of Origin / Manufacturing Location		SAME (China ∕ Zhuhai Ensei Electronics Co., Ltd.)	
Materials	case materials	Supplier	SAME
		Material	ABS (SAME)
		Part number	Different (not disclosed)
	Other materials	SAME	
Electronic spec. (Including absolute maximum rating.)		SAME	
QC process		SAME	
Product Reliability		SAME	
Package spec		SAME	