Product Change Notification

■ Purpose

[2022-02-21] Sharp Corporation would like to notify customers of a change in the supplier for a signal processing IC used in the following Sharp distance measuring sensor models. Sharp will be applying this running change in production from September, 2022.

There is no change to the device shape, terminal layout, characteristics, or reliability. The external/customer-facing Sharp model numbers will remain unchanged. However, the Sharp internal model numbers will be changed, and there will be updated specifications.

For some models, besides the signal processing IC change, there will be further changes such as resistor, capacitor, thermistor and lead frame changes.

The affected distance measuring sensor (DMS) models include:

- GP2Y0A02SKDF
- GP2Y0A02YK0F
- GP2Y0A21YK0F
- GP2Y0A41SK0F
- GP2Y0A51SK0F
- GP2Y0A710K0F
- GP2Y0AF15X
- GP2Y0AF15Y
- GP2Y0D02YK0F
- GP2Y0D21YK0F
- GP2Y0D413K0F

■ Effective Time of Change

These are running changes that will be applied starting in September, 2022.

■ Details

Please refer to the pages that follow for the details of the material 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 Semiconductor Innovation Corporation

Planning and Engineering Div.	Development Div. 1
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Thank you very much for your continuous usage
of our semiconductor device products.
We would like to inform the change of Distance measuring sensor as follows.

Subject	**Notification of the Change of distance sensor signal processing IC manufacturing subcontractor**

Applicable Product Category	**Distance measuring sensor （ 43 model)**
Changed From	**Running change is scheduled for September 2022 onward.** ※Depending on the sales situation, the schedule may change.

With regard to the distance measurement sensor shown in the attachment,
we are unable to procure supply of on-board distance measurement signal processing IC hereafter due to the suspension of operations at the manufacturing plant.
Therefore, in order to continue to supply the distance measuring sensors,
we will gradually switch the signal processing IC to one with the same function manufactured by another manufacturing factory. Thank you for your understanding.

1. Applicable Models

Refer to the attachment

2. Contents of Change

Change of the distance measuring sensor signal processing IC

Maker before change	S company	Manufacturing factory: ON Semiconductor Niigata
Maker after change	S company	Manufacturing factory: UMC

In addition to the above changes, the resistance (R) and the capacitor (C) as well as the thermistor and lead frame for some models will also be changed due to the change in signal processing IC in the distance measuring sensor.

3. Reason for Change

To continue the supply of distance measuring sensors.

There are no changes to product shape, terminal layout, product characteristics, and reliability.

測距用信号処理IC変更スケジュール/Schedule of distance measuring sensor signal processing IC change

系列/Series	タイプ/Type	機種名/Model	参考仕様書 Reference specification	納入仕様書 Delivery specification	4 M資料 4M report	EVT sample （出荷 /Shipment）	特性データ Characteristic data	信頼性データ Reliability data	環境資料 Environmental doc.	倉入れ Warehousing
GP2Y系列 /Series	アナログ出力 Analog output	GP2Y0A02YKF4	2/22	5/27	2/21	2/21	2/25	6/30	6/30	2022/9月
		GP2Y0A02YKS4	2/22	5/27	2/21	2/21	2/25	6/30	6/30	2022/9月
		GP2Y0A21YK16	2/25	5/27	2/21	2/28	3/4	6/30	6/30	2022/9月
		GP2Y0A21YKF4	2/25	5/27	2/21	2/28	3/4	6/30	6/30	2022/9月
		GP2Y0A51SK04	3/4	5/27	2/21	3/4	3/11	6/30	6/30	2022/9月
		GP2Y0A51SK06	3/4	5/27	2/21	3/4	3/11	6/30	6/30	2022/9月
		GP2Y0A41SKF4	4/1	5/27	2/21	4/1	4/8	6/30	6/30	2022/9月
		GP2Y0A02SKD4	4/1	5/27	2/21	4/1	4/8	6/30	6/30	2022/9月
		GP2Y0A02YK14	4/22	5/27	2/21	4/22	4/28	6/30	6/30	2022/9月
		GP2Y0A710KF4	4/28	5/27	2/21	4/28	5/13	6/30	6/30	2022/9月
	デジタル出力 Digital output （1bit）	GP2Y0D02YK24	4/15	6/3	2/21	4/15	4/22	6/30	6/30	2022/9月
		GP2Y0D02YKF4	4/15	6/3	2/21	4/15	4/22	6/30	6/30	2022/9月
		GP2Y0D21YKF4	4/15	6/3	2/21	4/15	4/22	6/30	6/30	2022/9月
		GP2Y0D413KF4	4/15	6/3	2/21	4/15	4/22	6/30	6/30	2022/9月
		GP2Y0D417KB4	4/15	6/3	2/21	4/15	4/22	6/30	6/30	2022/9月
		GP2Y0D421K06	4/15	6/3	2/21	4/15	4/22	6/30	6/30	2022/9月
GP3Y系列 /Series	デジタル出力 Digital output （1bit）	GP3Y0D013K26	4/8	6/10	2/21	4/8	4/15	6/30	6/30	2022/9月
		GP3Y0D024KF6	4/8	6/10	2/21	4/8	4/15	6/30	6/30	2022/9月
		GP3Y0D015K26	4/8	6/10	2/21	4/8	4/15	6/30	6/30	2022/9月
		GP3Y0D016K26	4/8	6/10	2/21	4/8	4/15	6/30	6/30	2022/9月
		GP3Y0D025KF6	4/8	6/10	2/21	4/8	4/15	6/30	6/30	2022/9月
		GP3Y0D026K06	4/8	6/10	2/21	4/8	4/15	6/30	6/30	2022/9月
		GP3Y0D026KA6	4/8	6/10	2/21	※	※	6/30	6/30	2022/9月
		GP3Y0D027K06	4/8	6/10	2/21	※	※	6/30	6/30	2022/9月
		GP3Y0D028K06	4/8	6/10	2/21	※	※	6/30	6/30	2022/9月
		GP3Y0D029K06	4/8	6/10	2/21	※	※	6/30	6/30	2022/9月
		GP3Y0D031K06	4/8	6/10	2/21	4/8	4/15	6/30	6/30	2022/9月
		GP3Y0D032K06	4/8	6/10	2/21	4/8	4/15	6/30	6/30	2022/9月
		GP3Y0D033K06	4/8	6/10	2/21	4/8	4/15	6/30	6/30	2022/9月
		GP3Y0D01YK	4/22	6/10	2/21	4/22	4/28	6/30	6/30	2022/9月
		GP3Y0D014K26	4/22	6/10	2/21	4/22	4/28	6/30	6/30	2022/9月
		GP3Y0D418K04	4/15	6/10	2/21	4/15	4/22	6/30	6/30	2022/9月
GP2Y0AF系列 /Series （小型測距 /Small type）	アナログ出力 Analog output	GP2Y0AF15R04	3/18	4/15	2/21	3/18	3/25	5/27	5/27	2022/9月
		GP2Y0AF15X04	3/18	4/15	2/21	3/18	3/25	5/27	5/27	2022/9月
		GP2Y0AF15XR4	3/18	4/15	2/21	3/18	3/25	5/27	5/27	2022/9月
		GP2Y0AF15Q04	3/31	4/28	2/21	3/31	4/8	5/27	5/27	2022/9月
		GP2Y0AF15Q06	3/31	4/28	2/21	3/31	4/8	5/27	5/27	2022/9月
		GP2Y0AF15Y04	3/31	4/28	2/21	3/31	4/8	5/27	5/27	2022/9月
		GP2Y0AF15YS4	3/31	4/28	2/21	3/31	4/8	5/27	5/27	2022/9月
		GP2Y0AF30Q04	3/31	4/28	2/21	3/31	4/8	5/27	5/27	2022/9月
		GP2Y0AF30R04	3/31	4/28	2/21	3/31	4/8	5/27	5/27	2022/9月
		GP2Y0AF30S04	3/31	4/28	2/21	3/31	4/8	5/27	5/27	2022/9月
		GP2Y0AF30Y04	3/31	4/28	2/21	3/31	4/8	5/27	5/27	2022/9月

※ユーザー殿と協議の上、サンプルを準備 / Need to discuss the sample preparation with customers.

測距センサ 4M変更点について/Distance measuring sensor 4M change

各製品別の４M変更点は以下となります。/4M changes in each product are as follows.

○：変更あり/Change

R:抵抗/Resistor、C:コンデンサ/Capacitor、 P:基板/Board（パターン変更/Layout pattern change）

－：変更なし/No change

測距信号処理IC/Distance sensor signal processing IC、T:サーミスタ/Thermistor、LF:リードフレーム/Lead frame

系列/Series	タイプ/Type	機種名/Model	Machine(設備)	Material(材料)	Method(方法)	Man(人)
GP2Y系列 /Series	アナログ出力 Analog output	GP2Y0A21YK16	-	○ IC、R、C、P	-	-
		GP2Y0A21YKF4	-	○ IC、R、C、P	-	-
		GP2Y0A02YKF4	-	○ IC、R、C、P	-	-
		GP2Y0A02YKS4	-	○ IC、R、C、P	-	-
		GP2Y0A51SK04	-	○ IC、R、C、P	-	-
		GP2Y0A51SK06	-	○ IC、R、C、P	-	-
		GP2Y0A41SKF4	-	○ IC、R、C、P	-	-
		GP2Y0A02SKD4	-	○ IC、R、C、P	-	-
		GP2Y0A02YK14	-	○ IC、R、C、P、T	-	-
		GP2Y0A710KF4	-	○ IC、R、C、P、T	-	-
	デジタル出力 Digital output （1bit）	GP2Y0D02YK24	-	○ IC、R、C、P	-	-
		GP2Y0D02YKF4	-	○ IC、R、C、P	-	-
		GP2Y0D21YKF4	-	○ IC、R、C、P	-	-
		GP2Y0D413KF4	-	○ IC、R、C、P	-	-
		GP2Y0D417KB4	-	○ IC、R、C、P	-	-
		GP2Y0D421K06	-	○ IC、R、C、P	-	-
GP3Y系列 /Series	デジタル出力 Digital output （1bit）	GP3Y0D013K26	-	○ IC、R、C、P	-	-
		GP3Y0D024KF6	-	○ IC、R、C、P	-	-
		GP3Y0D015K26	-	○ IC、R、C、P	-	-
		GP3Y0D016K26	-	○ IC、R、C、P、T	-	-
		GP3Y0D025KF6	-	○ IC、R、C、P、T	-	-
		GP3Y0D026K06	-	○ IC、R、C、P、T	-	-
		GP3Y0D026KA6	-	○ IC、R、C、P、T	-	-
		GP3Y0D027K06	-	○ IC、R、C、P、T	-	-
		GP3Y0D028K06	-	○ IC、R、C、P	-	-
		GP3Y0D029K06	-	○ IC、R、C、P	-	-
		GP3Y0D031K06	-	○ IC、R、C、P、T	-	-
		GP3Y0D032K06	-	○ IC、R、C、P、T	-	-
		GP3Y0D033K06	-	○ IC、R、C、P、T	-	-
		GP3Y0D01YK	-	○ IC、R、C、P	-	-
		GP3Y0D014K26	-	○ IC、R、C、P	-	-
		GP3Y0D418K04	-	○ IC、R、C、P	-	-
GP2Y0AF系列 /Series （小型測距 /Small type）	アナログ出力 Analog output	GP2Y0AF15R04	-	○ IC、R、C、P、LF	-	-
		GP2Y0AF15X04	-	○ IC、R、C、P、LF	-	-
		GP2Y0AF15XR4	-	○ IC、R、C、P、LF	-	-
		GP2Y0AF15Q04	-	○ IC、R、C、P、LF	-	-
		GP2Y0AF15Q06	-	○ IC、R、C、P、LF	-	-
		GP2Y0AF15Y04	-	○ IC、R、C、P、LF	-	-
		GP2Y0AF15YS4	-	○ IC、R、C、P、LF	-	-
		GP2Y0AF30Q04	-	○ IC、R、C、P、LF	-	-
		GP2Y0AF30R04	-	○ IC、R、C、P、LF	-	-
		GP2Y0AF30S04	-	○ IC、R、C、P、LF	-	-
		GP2Y0AF30Y04	-	○ IC、R、C、P、LF	-	-