

Note: This PCN is issued by Sharp Devices Europe, other SHARP business units might have different schedules.

Product Change Notification

NOTIFICATION NO.	ISSUE DATE	LAST BUY DATE	LAST SHIP DATE
EU-PCN-20220301-01 Rev.2	06.10.2022	---	---

This is to advise you that the following product will be changed.

Product ID (Description):

Distance Measuring Sensors - please see the attached model list

Description of Change:

Due to discontinuation of the originally used signal processing IC and to secure a continuous supply of our distance measuring sensors, we will gradually switch the signal processing IC to a new one with the same function.

The change of the signal processing IC will be as follows:

Current: Manufacturing factory: ON Semiconductor Niigata

New: 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.

Rev. 1: In the process of switching 4M ICs, some problems regarding Vo characteristics were discovered. Please see the Attachment 2 for details.
Due to this, a redesign with a different IC product was done. The design change mask for the new IC is ordered and evaluation is going to start in September 2022.
Afterwards, the new schedule will be reported.

Due to resources and production equipment in relation with the new 4M change, unfortunately, some models have to become EOL. This will be informed separately.

Effect of Change:

**Rev. 2: This change is planned starting with April 2023 production onwards, depending on evaluation results.
Please see attachments for some internal model name changes as well as a product comparison sheet.**

Note:

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

New specifications and reliability test reports will be available, **starting end November 2022**. Please contact your key account manager.

Suggested Alternative Parts and/or Manufactures:

CHANGED SHARP PART NO.	SUCCESSOR / SUGGESTED ALTERNATE PART NO.	ALTERNATE MANUFACTURER
see above	-	---

In case of further questions, please contact your SHARP sales representative.

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Attachment

Distance measuring sensor 4M change

○ : Change

4M changes in each product are as follows.

– : No change

R: Resistor, C: Capacitor, P: Board (Layout pattern change)

IC: Distance sensor signal processing IC, T: Thermistor, LF: Lead frame

Series	Type	Internal Model	Model No	Material
GP2Y Series	Analog output	GP2Y0A02YKFA	GP2Y0A21YK1F	○ IC, R, C, P
		GP2Y0A21YK1A	GP2Y0A21YK0F	○ IC, R, C, P
		GP2Y0A21YKFA	GP2Y0A02YK0F	○ IC, R, C, P
		GP2Y0A51SK0A	GP2Y0A51SK0F	○ IC, R, C, P
		GP2Y0A41SKFA	GP2Y0A41SK0F	○ IC, R, C, P
		GP2Y0A02YK1A	GP2Y0A02YK1F	○ IC, R, C, P, T
	Digital output (1bit)	GP2Y0D02YKFA	GP2Y0D02YK0F	○ IC, R, C, P
		GP2Y0D21YKFA	GP2Y0D21YK0F	○ IC, R, C, P
		GP2Y0D417KBA	GP2Y0D417KBF	○ IC, R, C, P
GP3Y Series	Digital output (1bit)	GP3Y0D013K2A	GP3Y0D013K	○ IC, R, C, P
		GP3Y0D026K0A	GP3Y0D026K0F	○ IC, R, C, P, T
		GP3Y0D026KAA	GP3Y0D026KAF	○ IC, R, C, P, T
		GP3Y0D031K0A	GP3Y0D031K0F	○ IC, R, C, P, T
		GP3Y0D032K0A	GP3Y0D032K0F	○ IC, R, C, P, T
		GP3Y0D033K0A	GP3Y0D033K0F	○ IC, R, C, P, T
		GP3Y0D418K0A	GP3Y0D418K0F	○ IC, R, C, P
GP2Y0AF Series (Small type)	Analog output	GP2Y0AF15R0A	GP2Y0AF15R	○ IC, R, C, P, LF
		GP2Y0AF15X0A	GP2Y0AF15X	○ IC, R, C, P, LF
		GP2Y0AF15XR0A	GP2Y0AF15XR	○ IC, R, C, P, LF
		GP2Y0AF15Q0A	GP2Y0AF15Q	○ IC, R, C, P, LF
		GP2Y0AF15Q06	GP2Y0AF15Q	○ IC, R, C, P, LF
		GP2Y0AF15Y0A	GP2Y0AF15Y	○ IC, R, C, P, LF
		GP2Y0AF15YSA	GP2Y0AF15Y	○ IC, R, C, P, LF
		GP2Y0AF30Q0A	GP2Y0AF30Q	○ IC, R, C, P, LF
		GP2Y0AF30R0A	GP2Y0AF30R	○ IC, R, C, P, LF
		GP2Y0AF30S0A	GP2Y0AF30S	○ IC, R, C, P, LF
		GP2Y0AF30Y0A	GP2Y0AF30Y	○ IC, R, C, P, LF

Model Name = SDE / Europe models

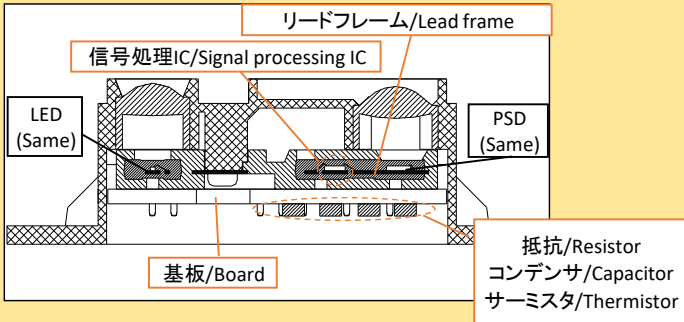
SHARP測距センサ 材料変更に関する比較表

Comparison sheet related on material change for SHARP Distance sensor

【適用機種/Applicable Model】 全機種/ALL models

シャープセミコンダクターイノベーション株式会社

Sharp Semiconductor Innovation Corporation

			変更前/Before Change	変更後/After Change
社外品番/Applicable Model No.			全機種/All models (Same)	
社内品番/SHARP Internal Model No.			添付リスト参照/Refer to attached list	変更予定/Will be changed
Country of Origin / Manufacturing Location			中国／珠海縁成電子 China / Zhuhai Ense Electronics Co., Ltd. (Same)	
材料/ Materials	信号処理IC /Signal processing IC	工場/Factory	On Semiconductor	UMC
		IC仕様 /IC Spec.	→	端子配置・機能変更有り /Pin assign・Function changed
		開発・ベンダー / Design・Vendor	S company (同一/Same)	
	基板/Board		→	ICに合わせた配線パターン変更 /Layout pattern changed to fit new IC
	抵抗/Resistor		→	ICに合わせた定数変更・使用数変更 /Constant value and use number changed to fit new IC
	コンデンサ/Capacitor		→	ICに合わせた定数変更・使用数変更 /Constant value and use number changed to fit new IC
	サーミスタ/Thermistor		→	ICに合わせた定数変更/Constant value changed to fit new IC (一部機種のみ / Only some models)
	リードフレーム/Lead frame		→	ICに合わせたフレーム変更 / Frame changed to fit new IC (一部機種のみ / Only some models)
	断面図/Cross section (参考/Reference)			
	その他部材(LED, PSD, Lens付きモールドケース等) /The other materials(LED, PSD, Lens mold case, etc.)		同一/Same	
電気的特性 / Electronic spec. (絶対最大定格含む/ Including absolute maximum rating.)			同一/Same	
QC工程 / QC process			同一/Same	
製品信頼性 / Product Reliability			同一/Same	
外形図/ Outline Dimension			同一/Same	
マーク/ Marking			→	末尾に識別マーク付加 / Discrimination mark will be added at the end
梱包仕様 / Package spec			同一/Same	