

Product Change Notice (PCN)

Subject: Supply Flexibility for Passive Components on Select Products

Publication Date: 7/21/2020

Effective Date: 7/21/2020

Revision Description:

Initial Release

Description of Change:

Renesas is adding flexibility in the passive components it employs on select products, GX74470 and GX74870. Refer below table for material comparison of the existing and the alternate components.

Detailed specifications of the alternate components can be obtained from supplier datasheet.

Product	Description	Existing Supplier	Existing Supplier Location	Supplier P/N - Existing	Alternate Supplier	Alternate Supplier Location	Supplier p/n - Alternate
GX74470	INDUCTOR, CONICAL, BROADBAND, 0.170uH, 325mA, 55mil, Reverse Winding	Piconics, Inc.	USA	CC20T44K240G5-R	Y2K	HongKong Company Factory: Vietnam	C50U20T-C200NA
	Resistor, 12 Ohm, 1%, 25x10x10 mil, 250mW, CERAMIC	US Microwaves	USA	USMRG1215ANT05-12P0	US Microwave	USA	USMGR1215T05-12P0
GX74870	INDUCTOR, CONICAL, BROADBAND, 0.250uH, 300mA, 70mils	Piconics, Inc.	USA	CC25T44K240G5	Y2K	HongKong Company Factory: Vietnam	C50U25T-C290N
	CAP ARRAY, 3 CAPS, 300pF, +80%/-20%, 50x20x6 mils	ATC (American Technical Ceramics)	USA	ATC550L104KTT	PPI (Passive Plus Inc)	USA	0402BB104-KW500
	RES SMD 300 OHM 5% 1/20W 0201	Rohm	USA	MCR006YRTJ301	Yageo	USA	RC0201JR07300RL
	Housing, 0.5um Au thickness, GX MZ Driver 45Gx8 for 51 Mil Thick Substrate	Kyocera	Japan	GMS-B5115-B	Kyocera	Japan	GMS-B9396
	Substrate, North Submount, 0.7um Au thickness	Kyocera	Japan	GMS-B4584-A	Kyocera	Japan	GMS-B9400
Substrate, South Submount, 0.7um Au thickness	Kyocera	Japan	GMS-B4583	Kyocera	Japan	GMS-B9398	

Affected Product List: Refer Appendix B.

Reason for Change:

For supply continuance and flexibility.

Impact on Fit, Form, Function, Quality & Reliability:

The change will have no impact on the form, fit, function, quality, reliability and environmental compliance of the products.

Product Identification:

PCN effective date

Qualification Status: Completed. Refer Appendix A

Sample Availability Date: Available on request

Device Material Declaration: Available upon request

Note:

1. Acknowledgement must be received by Renesas within 30 days or Renesas will consider the change as approved.
2. If timely acknowledgement is provided by Customer, then Customer shall have 90 days from the date of receipt of this PCN to make any objections to this PCN. If Customer fails to make objections to this PCN within 90 days of the receipt of the PCN then Renesas will consider the PCN changes as approved.
3. If customer cannot accept the PCN then customer must provide Renesas with a last time buy demand and purchase order.

For additional information regarding this notice, please contact idt-pcn@lm.renesas.com

Appendix A - Qualification Results

Qual Purpose: Conical Coil and Capacitor

Affected Product: GX74470 and GX74870

Qual Vehicle: GX74870

Product : GX74870-JIUZ	
Fab Base: S2729-03D	Process Technology: 0.13LOGIC
Package Type: MOD0	Fab Location: UMC
Assembly Location: FABRINET, Thailand	Qual Plan#: P20-07-004

Test Description	Conditions	Sample Size	Results (rej/SS)	Comments
Vibration Variable Frequency	JESD22-B103, Condition 1	10	0/10	Pass
Unbiased HAST (UHAST)	110°C/85%RH, 96hrs	10	0/10	Pass
Bond Pull Strength	Mil-Std-883, M2011	10	0/10	Pass

Qual Purpose: Resistor 12 Ohm

Affected Product: GX74470

Qual Vehicle: GX74470

Product : GX74470-HIUZA	
Fab Base: AK873C001-FW	Process Technology: 8XP
Package Type: MOD0	Fab Location: GFUSA
Assembly Location: FABRINET, Thailand	Qual Plan#: P20-07-006

Test Description	Conditions	Sample Size	Results (rej/SS)	Comments
IR Characterization	ALU-8DS-01001-0044-ASZZA	2	0/2	Passed

Qual Purpose: Housing and Substrate
Affected Product: GX74870
Qual Vehicle: GX74870

Product : GX74870-JIUZ	
Fab Base: S2729-03D	Process Technology: 0.13LOGIC
Package Type: MOD0	Fab Location: UMC
Assembly Location: FABRINET, Thailand	Qual Plan#: P20-07-005

Test Description	Conditions	Sample Size	Results (rej/SS)	Comments
Temperature Cycling	JESD22-A104, -40°C to +85°C, 10cycles	2	0/2	Passed
Temperature Cycling	JESD22-A104, -25°C to +100°C, 500cycles	1	0/1	Passed
High Temperature Storage Life	JESD22-A103, +150°C, 1000hrs	2	0/2	Passed
Bond Pull Strength	Mil-Std-883, M2011	2	0/2	Passed
Die Shear	MIL-STD-883, M2019	2	0/2	Passed

Appendix B – Affected Product List

GX74470-HIU-EVB
GX74870-200-11
GX74870-200-21
GX74870-JIU
GX74870-JIU-EVB