

Product Change Notice (PCN)

Subject: Change Lid Supplier on Select Packages

Publication Date: 2/7/2022

Effective Date: 5/7/2022

Revision Description:

Initial Release

Description of Change:

Renesas is changing to a new lid supplier, Wanotec (Japan) as a result of the current lid supplier, Kostec (Korea) will discontinue the business and the support will extend up to end of February 2022. The existing lid supplies are expect to deplete by the following dates.

<u>Package</u>	<u>Expect depletion by</u>
JU6	May 2022
JS6	April 2022
JX6	June 2022

Refer below table for the comparison of the current and the new lid material, dimensions and appearance.

Material Comparizon

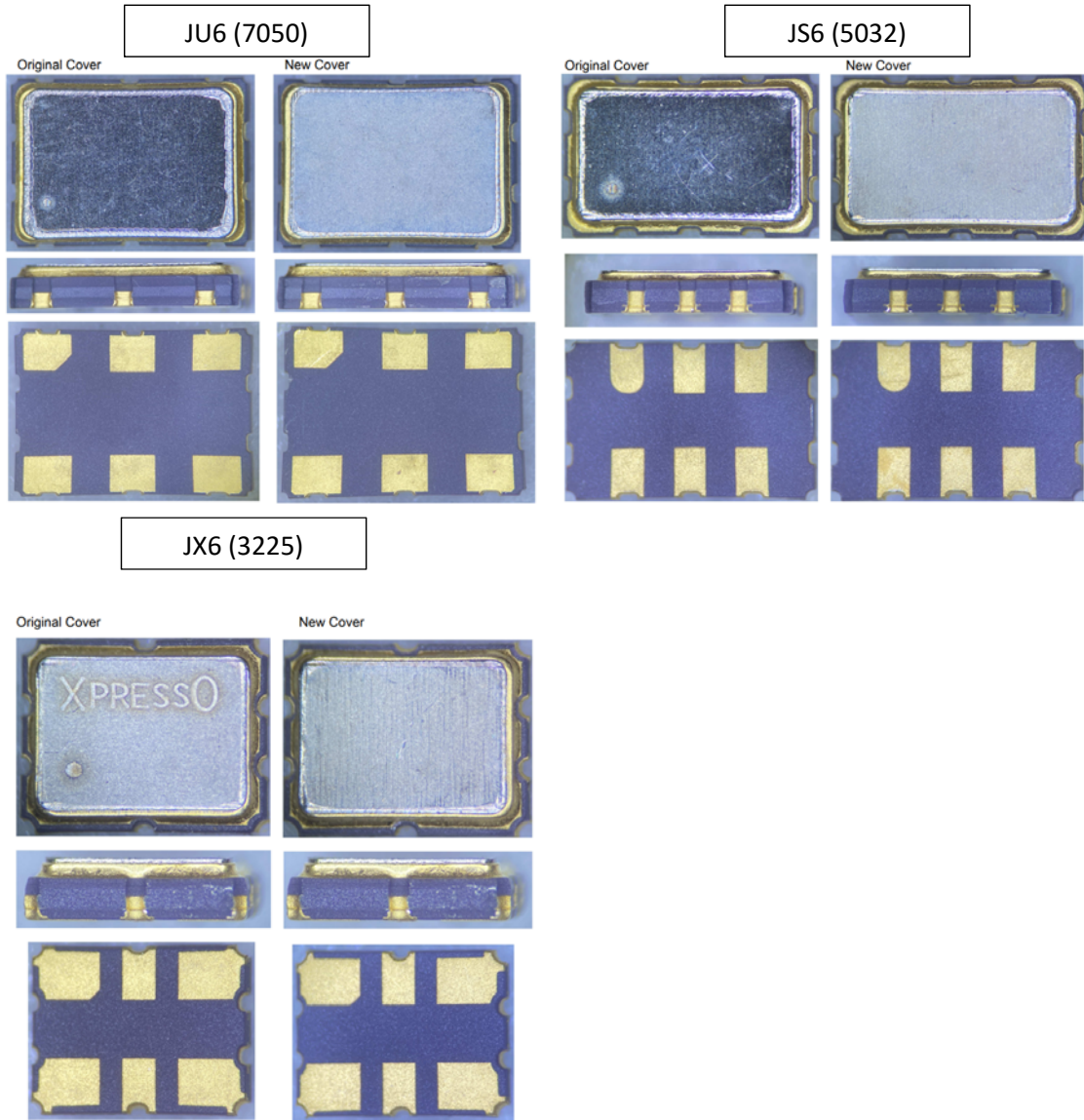
Package	Homogeneous Material	Substance	Current Supplier (Kostec, Korea)	New Supplier (Wanotec Japan)
JU6 (7050)	Kovar	Fe	52.76%	51.50%
		Ni	29.45%	30.00%
		Co	17.50%	18.00%
		Mn	0.25%	0.50%
		Si	0.04%	-
		C	0.001%	-
	Plated Nickel	Ni	92.00%	100.00%
		P	8.00%	-
JS6 (5032)	Kovar	Fe	53.51%	54.49%
		Ni	29.04%	29.00%
		Co	16.97%	16.01%
		Mn	0.49%	0.50%
		Si	-	-
		C	-	-
	Plated Nickel	Ni	89.19%	100.00%
		P	10.81%	-
JX6 (3225)	Kovar	Fe	53.18%	53.29%
		Ni	28.00%	29.04%

		Co	18.00%	17.07%
		Mn	0.50%	0.60%
		Si	0.30%	-
		C	0.02%	-
	Plated Nickel	Ni	99.80%	100.00%
		P	0.20%	-

Dimensional Comparizon

Package	Lid Measurement	Current Supplier (Kostec, Korea)	New Supplier (Wanotec Japan)
JU6 (7050)	Length	6.2±0.03	6.2±0.05
	Width	4.4±0.03	4.4±0.05
	Thickness	0.1±0.02	0.1±0.03
JS6 (5032)	Length	4.4±0.03	4.4±0.03
	Width	2.6±0.03	2.6±0.03
	Thickness	0.07±0.015	0.07±0.015
JX6 (3225)	Length	2.7±0.03	2.7±0.02
	Width	2.0±0.03	2.0±0.02
	Thickness	0.08±0.02	0.08±0.02

Appearance Comparizon



Affected Product List: Refer Appendix B.

Reason for Change:

The current lid supplier will discontinue the business by end February 2022.

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

The change will have no impact on the fit, function, quality, reliability and environmental compliance of the products. However, the form in specific the lid appearance is changed due to the absence of Phosphorus element in the new lid material. Refer to photos shown in page 2.

Product Identification:

Assembly lot# will traceable to the lid material supplier.

Qualification Status: Completed. Refer Appendix A

Sample Availability Date: 4/25/2022

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

Affected Package: Refer Appendix B

Qual Vehicle: FX17H50RZJU6I

Qual Plan & Results: Tests are in accordance with JEDEC47 recommended tests.

Test Descriptions	Test Method	Test Results (Rej/SS)		
		Lot 1	Lot 2	Lot 3
* Temperature Cycling (-65°C to 150°C, 1000 cycles)	MIL-STD-883 (Method 1010) JESD22-A104	0/25	0/25	0/25
Thermal Shock, Temp Cycle and Moisture Resistance Cond C, -65/150°C, (Liquid to Liquid), 15 cycles Cond C, -65/150°C, (Air to Air), 100 cycles 90% RH/ -10/25/65°C, 10 cycles	Mil-Std-883 Mtd 1011 Mil-Std-883 Mtd 1010 Mil-Std-883 Mtd 1004	0/25	0/25	0/25
Mechanical Shock, Variable Freq. and Constant Acceleration Cond B, 1500 G Peak, 0.5 msec pulse duration Cond A, at peak acceleration of 20 g Cond E, - For Pkg <5 gms or inner sealed cavity < 2 inches Cond D, - For Pkg >= 5 gms or inner sealed cavity >= 2 inches	Mil-Std-883 Mtd 2002 Mil-Std-883 Mtd 2007 Mil-Std-883 Mtd 2001	0/25	0/25	0/25
Internal Vapor Content 5000 ppm at 100°C	Mil-Std-883 Mtd 1018	0/3	0/3	0/3
Solder Heat Test Solder Temp = 260°C±5°C Dwell = 10+2, -0 sec @ 1" + 1/4" per sec	JEDEC Mtd A112	0/15	0/15	0/15

*Tests were subjected to Preconditioning per JESD22-A113 prior to stress test

Part Number	Part Number	Part Number	Part Number
766-100-66	768-143-1	774-150-36	XLH325030.000000I
766-125-50	768-153.6-6	774-150-8	XLH325100.000000K
766-125-51	768-16-306	774-400-33	XLH325125.000000I
766-16.625-2	768-18.432-19	774A-156.25-10	XLH325125.000000I8
766-16.9344-2	768-20-59	774A-25-1	XLH326025.000000I
766-22.4-1	768-200-15	792-36.864-1	XLH326033.333333X
766-25-194	768-24-170	792A-108-1	XLH328033.333333X
766-25-51	768-25-18	794-125-7	XLH330001.843200X
766-25-7	768-28.322-12	796-125-24	XLH330002.097152K
766-30-17-AUTO	768-30.72-5	796-125-9	XLH330004.000000X
766-30-9	768-32-187	796-153.6-10	XLH330008.588800I
766-50-18	768-32-38	796-153.6-6	XLH330010.000JX4I
766-50-90	768-33-139	796-192-8	XLH330010.000JX4I8
766-60-7-AUTO	768-33.333-70	796-92.16-7	XLH330012.000000I
766-75-19	768-4.604-4	857A-106.25-1	XLH330016.000000X
766A-125-19	768-4.9152-34	FXO-HC335R-25	XLH330020.000000I
766A-40-8	768-4.9152-48	FXO-HC536R-20	XLH330025.000000X
767-0.75-9	768-40-102	FXO-HC536R-24	XLH330038.000000I
767-10-39	768-40-131	FXO-HC536R-25	XLH330090.000000X
767-100-49	768-40-72	FXO-HC536R-40	XLH330193.700000I
767-12.8-8	768-45.1584-21	FXO-HC536R-50	XLH335001.000000I
767-125-136	768-48-227	FXO-HC735-25	XLH335001.000000X
767-162-3	768-48-261	FXO-HC736R-10	XLH335001.024000I
767-24-120	768-49.152-51	FXO-HC736R-12	XLH335002.000000I
767-24-90	768-50-1006	FXO-HC736R-24	XLH335002.048000I
767-25-386	768-50-104	XAH335006.005284I	XLH335004.000000I
767-25-411	768-50-12	XAH335006.005284K	XLH335006.005284K
767-25-498	768-50-24	XAH335006.005285K	XLH335008.000000I
767-33.33333-4	768-50-630	XAH335008.000000K	XLH335008.000000K
767-50-112	768-60-185	XAH335014.745600K	XLH335010.000000I
767-50-194	768-62.5-77	XAH335024.000000K	XLH335012.000000I
767-80-63	768-7.5-1	XAH335025.000000I	XLH335012.288000I
767-83.33-1	768-77.76-24	XAH335025.000000K	XLH335012.288JX4I
767A-25-9	768A-125-8	XAH335050.000000K	XLH335012.288JX4I8
767A-75-4-AUTO	770-125-64	XAH335054.000000K	XLH335014.318000I
768-10-18	770-48-1	XAH335125.000000I	XLH335014.318180I
768-100-246	770-56-1	XAH335125.000000K	XLH335016.000000I
768-100-320	771-125-133	XAH535008.000000K	XLH335016.000JX4I
768-100-492	771-125-90	XAH535050.000000K	XLH335016.000JX4I8
768-12-77	771-300-32	XAH536025.000000I	XLH335016.625000I
768-12.288-40	771-62.5-43	XAL325125.000000K	XLH335019.200000X
768-125-17	771-66-5	XAL335080.000000K	XLH335020.000000I
768-125-320	773-150-10	XAL525500.000000K	XLH335024.000000I
768-125-334	773-300-1	XLH300000.000000I	XLH335024.000000K
768-125-73	773-322.289795-1	XLH325008.000000I	XLH335024.576000I
768-14.31818-119	773-375-1	XLH325025.000000I	XLH335025.000000I

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XLH736020.480000I	XLH736096.000000X	XLH73V234.375000X	XLL335D00.000000I
XLH736022.579200I	XLH736100.000000I	XLJ328033.330000X	XLL336025.000000X
XLH736023.900000X	XLH736100.000000X	XLJ336025.000000I	XLL336040.000000I
XLH736024.000000I	XLH736100.000JU4I8	XLJ535024.576000I	XLL336070.656000X
XLH736024.000000X	XLH736102.400000I	XLJ535054.000000I	XLL336100.000000I
XLH736024.576000I	XLH736104.000000I	XLJ536027.000000X	XLL336124.000000X
XLH736024.576000X	XLH736106.250000I	XLL325010.000000I	XLL336125.000000I
XLH736025.000000I	XLH736110.000000I	XLL325020.000000I	XLL336148.351600X
XLH736025.000000I8	XLH736120.000000I	XLL325040.000000I	XLL336148.351648X
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XLH736025.000JU4I	XLH736121.500000I	XLL325125.000000I	XLL336156.250000I

XLL336156.250JX6I	XLL535106.250000I	XLL725120.000000X	XLL735106.000000X
XLL336161.132812I	XLL535125.000000I	XLL725123.930000I	XLL735106.250JU6I
XLL336180.000000I	XLL535150.000000I	XLL725125.000000I	XLL735106.250JU6I8
XLL336200.000000I	XLL535156.250000I	XLL725125.000000X	XLL735120.000000I
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XLL336333.333333I	XLL535200.000000X	XLL725156.250000X	XLL735148.500000I
XLL336A00.000000I	XLL535312.500000I	XLL725162.000000I	XLL735156.250000I
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XLL338C50.000000X	XLL536010.000000I	XLL725266.000000I	XLL735156.250JU6I
XLL525010.000000I	XLL536025.000000I	XLL725266.000000X	XLL735156.250JU6I8
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XLL526150.000000I	XLL536156.250000I	XLL726266.666000I	XLL736062.500000X
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XLL736491.520000I	XLP535710.000000I	XLP736300.000000I	XUH536025.000000I
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