

Product Change Notification

Dear Valued Customer,

We extend our sincere gratitude for your continued support of Panasonic. Your loyalty and dedication to Panasonic products have been vital to us.

In our continuous pursuit of excellence, we are committed to making adjustments to ensure that we offer the best solutions to meet your needs. Therefore, we would like to inform you of an upcoming change regarding our **ZA, ZC (anti-vibration parts) and ZK, ZKU (standard and anti-vibration parts) of our Conductive Polymer Hybrid Aluminum Electrolytic Capacitors.**

Below are the details of the affected products:

Affected Product	<u>Applicable Product Series:</u> - ZA, ZC (anti-vibration parts) - ZK, ZKU (standard and anti-vibration parts) <u>Applicable Product Sizes:</u> 4 Sizes : 6x6, 6x8, 8x10, 10x10 Please refer to the P/N list for details.																																																																			
Change	Change of production sites: ■Current : Yamaguchi factory (Panasonic Industry Co., Ltd.) Address: 1285, Sakutaguchi, Asada, Yamaguchi City, Yamaguchi, 753-8536, Japan. ↓ ■New : Yamaguchi factory (Panasonic Industry Co., Ltd.) + Malaysia factory (Panasonic Industrial Device Malaysia Sdn. Bhd.) Address: No. 1, Jalan Jemuju 16/13, Shah Alam 40200 Malaysia.																																																																			
Schedule	Effective date: PO issued from 1st January 2027 - ZA, ZC (anti-vibration parts) <table border="1" style="margin-top: 10px;"> <thead> <tr> <th></th><th>Mass production</th><th>Sample availability</th></tr> </thead> <tbody> <tr><td>6x6</td><td>Aug/2026</td><td>Sep/2026</td></tr> <tr><td>6x8</td><td>Aug/2026</td><td>Sep/2026</td></tr> <tr><td>8x10</td><td>Jun/2026</td><td>Jul/2026</td></tr> <tr><td>10x10</td><td>May/2026</td><td>Jun/2026</td></tr> </tbody> </table> <table border="1" style="margin-top: 10px;"> <thead> <tr> <th colspan="3">PPAP</th></tr> <tr> <th></th><th>Representative P/N</th><th>Availability</th></tr> </thead> <tbody> <tr><td>6x6</td><td>EEHZC1V470V</td><td>Oct/2026</td></tr> <tr><td>6x8</td><td>EEHZC1V680XV</td><td>Oct/2026</td></tr> <tr><td>8x10</td><td>EEHZC1V151V</td><td>Aug/2026</td></tr> <tr><td>10x10</td><td>EEHZC1V271V</td><td>Jul/2026</td></tr> </tbody> </table> - ZK, ZKU (standard and anti-vibration parts) <table border="1" style="margin-top: 10px;"> <thead> <tr> <th></th><th>Mass production</th><th>Sample availability</th></tr> </thead> <tbody> <tr><td>6x6</td><td>Sep/2026</td><td>From Oct/2026</td></tr> <tr><td>6x8</td><td>Sep/2026</td><td>From Oct/2026</td></tr> <tr><td>8x10</td><td>Sep/2026</td><td>From Oct/2026</td></tr> <tr><td>10x10</td><td>Sep/2026</td><td>From Oct/2026</td></tr> </tbody> </table> <table border="1" style="margin-top: 10px;"> <thead> <tr> <th colspan="3">PPAP</th></tr> <tr> <th></th><th>Representative P/N</th><th>Availability</th></tr> </thead> <tbody> <tr><td>6x6</td><td>EEHZK1V680UP</td><td>Nov/2026</td></tr> <tr><td>6x8</td><td>EEHZK1V121XUP</td><td>Nov/2026</td></tr> <tr><td>8x10</td><td>EEHZK1V221UP</td><td>Nov/2026</td></tr> <tr><td>10x10</td><td>EEHZK1V391UP</td><td>Nov/2026</td></tr> </tbody> </table>			Mass production	Sample availability	6x6	Aug/2026	Sep/2026	6x8	Aug/2026	Sep/2026	8x10	Jun/2026	Jul/2026	10x10	May/2026	Jun/2026	PPAP				Representative P/N	Availability	6x6	EEHZC1V470V	Oct/2026	6x8	EEHZC1V680XV	Oct/2026	8x10	EEHZC1V151V	Aug/2026	10x10	EEHZC1V271V	Jul/2026		Mass production	Sample availability	6x6	Sep/2026	From Oct/2026	6x8	Sep/2026	From Oct/2026	8x10	Sep/2026	From Oct/2026	10x10	Sep/2026	From Oct/2026	PPAP				Representative P/N	Availability	6x6	EEHZK1V680UP	Nov/2026	6x8	EEHZK1V121XUP	Nov/2026	8x10	EEHZK1V221UP	Nov/2026	10x10	EEHZK1V391UP	Nov/2026
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Reason for Change	Expansion of hybrid capacitors global production capacity to secure global business continuity plan and ensure sufficient delivery quantity based on customers' demand.
Acknowledgement	Deadline for signature: August 31st 2026 We hereby ask our authorized distributor to notify customers for this Product Change Notification. If customer has any concern or objection to this PCN, please submit the content in writing before the above date. If no written claim is received by this date, we will consider this PCN is approved and start shipping from Malaysia factory.

We understand that changes like these may impact your operations, and we apologize for any inconvenience this may cause. Our team is fully prepared to support you during this transition period and provide assistance as needed.

Thank you for your understanding and continued support as we strive to deliver superior products and services to you.

Best regards,

Panasonic Industry Europe GmbH

Acknowledgement Form

Acknowledgement of Receipt and Understanding

I, _____ (Name of the Recipient), hereby acknowledge that I have received and read the above notification.

Company name: _____

Signature: _____

Date: _____

PN	Product Category	Series
EEHZK1E471P	Hybrid Cap	ZK
EEHZK1V331P	Hybrid Cap	ZK
EEHZK1E101UP	Hybrid Cap	ZKU
EEHZK1V680UP	Hybrid Cap	ZKU
EEHZK1E471V	Hybrid Cap	ZK
EEHZKE181XUP	Hybrid Cap	ZKU
EEHZKV121XUP	Hybrid Cap	ZKU
EEHZK1V331V	Hybrid Cap	ZK
EEHZK1E151XP	Hybrid Cap	ZK
EEHZK1E151XV	Hybrid Cap	ZK
EEHZK1E271P	Hybrid Cap	ZK
EEHZK1V181P	Hybrid Cap	ZK
EEHZK1V560P	Hybrid Cap	ZK
EEHZK1E680V	Hybrid Cap	ZK
EEHZK1E680P	Hybrid Cap	ZK
EEHZK1E820V	Hybrid Cap	ZK
EEHZK1V101XP	Hybrid Cap	ZK
EEHZK1V101XV	Hybrid Cap	ZK
EEHZK1E271V	Hybrid Cap	ZK
EEHZK1V181V	Hybrid Cap	ZK
EEHZK1E820P	Hybrid Cap	ZK
EEHZK1V560V	Hybrid Cap	ZK
EEHZK1E331UP	Hybrid Cap	ZKU
EEHZK1E101UV	Hybrid Cap	ZKU
EEHZK1V680UV	Hybrid Cap	ZKU
EEHZKE181XUV	Hybrid Cap	ZKU
EEHZKV121XUV	Hybrid Cap	ZKU
EEHZK1V221UP	Hybrid Cap	ZKU
EEHZK1E561UP	Hybrid Cap	ZKU
EEHZK1E331UV	Hybrid Cap	ZKU
EEHZK1V221UV	Hybrid Cap	ZKU
EEHZK1V391UP	Hybrid Cap	ZKU
EEHZK1E561UV	Hybrid Cap	ZKU
EEHZK1V391UV	Hybrid Cap	ZKU
EEHZA1E470V	Hybrid Cap	ZA
EEHZA1E560V	Hybrid Cap	ZA
EEHZA1H220V	Hybrid Cap	ZA
EEHZA1J100V	Hybrid Cap	ZA
EEHZA1V270V	Hybrid Cap	ZA
EEHZA1V330V	Hybrid Cap	ZA
EEHZA1V470V	Hybrid Cap	ZA
EEHZA1E101XV	Hybrid Cap	ZA
EEHZA1E680XV	Hybrid Cap	ZA
EEHZA1H330XV	Hybrid Cap	ZA
EEHZA1J220XV	Hybrid Cap	ZA
EEHZA1V680XV	Hybrid Cap	ZA
EEHZA1E151V	Hybrid Cap	ZA

EEHZA1E221V	Hybrid Cap	ZA
EEHZA1H470V	Hybrid Cap	ZA
EEHZA1H680V	Hybrid Cap	ZA
EEHZA1J330V	Hybrid Cap	ZA
EEHZA1J470V	Hybrid Cap	ZA
EEHZA1K220V	Hybrid Cap	ZA
EEHZA1V101V	Hybrid Cap	ZA
EEHZA1V151V	Hybrid Cap	ZA
EEHZA1K470V	Hybrid Cap	ZA
EEHZA1E331V	Hybrid Cap	ZA
EEHZA1H101V	Hybrid Cap	ZA
EEHZA1J560V	Hybrid Cap	ZA
EEHZA1J680V	Hybrid Cap	ZA
EEHZA1J820V	Hybrid Cap	ZA
EEHZA1K330V	Hybrid Cap	ZA
EEHZA1V221V	Hybrid Cap	ZA
EEHZA1V271V	Hybrid Cap	ZA
EEHZC1E331V	Hybrid Cap	ZC
EEHZC1H101V	Hybrid Cap	ZC
EEHZC1H121V	Hybrid Cap	ZC
EEHZC1J560V	Hybrid Cap	ZC
EEHZC1J680V	Hybrid Cap	ZC
EEHZC1J820V	Hybrid Cap	ZC
EEHZC1K330V	Hybrid Cap	ZC
EEHZC1E101XV	Hybrid Cap	ZC
EEHZC1E470V	Hybrid Cap	ZC
EEHZC1E560V	Hybrid Cap	ZC
EEHZC1H220V	Hybrid Cap	ZC
EEHZC1J100V	Hybrid Cap	ZC
EEHZC1E151V	Hybrid Cap	ZC
EEHZC1E221V	Hybrid Cap	ZC
EEHZC1H470V	Hybrid Cap	ZC
EEHZC1K470V	Hybrid Cap	ZC
EEHZC1V221V	Hybrid Cap	ZC
EEHZC1V271V	Hybrid Cap	ZC
EEHZC1H680V	Hybrid Cap	ZC
EEHZC1J330V	Hybrid Cap	ZC
EEHZC1J470V	Hybrid Cap	ZC
EEHZC1K220V	Hybrid Cap	ZC
EEHZC1V101V	Hybrid Cap	ZC
EEHZC1V151V	Hybrid Cap	ZC
EEHZC1V330V	Hybrid Cap	ZC
EEHZC1V470V	Hybrid Cap	ZC
EEHZC1E680XV	Hybrid Cap	ZC
EEHZC1H330XV	Hybrid Cap	ZC
EEHZC1J220XV	Hybrid Cap	ZC
EEHZC1V680XV	Hybrid Cap	ZC

Product Specification

Hybrid Cap / ZK / SMD / 25V / 470 μ F / 125°C / 4000h / 10x10.2mm / ESR 20mOhm / ripple 2.8Arms
Hybrid Cap / ZK / SMD / 35V / 330 μ F / 125°C / 4000h / 10x10.2mm / ESR 20mOhm / ripple 2.8Arms
Hybrid Cap / ZKU / SMD / 25V / 100 μ F / 125°C / 4000h / 6.3x5.8mm / ESR 50mOhm / ripple 1.3Arms
Hybrid Cap / ZKU / SMD / 35V / 68 μ F / 125°C / 4000h / 6.3x5.8mm / ESR 60mOhm / ripple 1.2Arms
Hybrid Cap / ZK / SMD / 25V / 470 μ F / 125°C / 4000h / 10x10.5mm / ESR 20mOhm / ripple 2.8Arms / Anti-Vib
Hybrid Cap / ZKU / SMD / 25V / 180 μ F / 125°C / 4000h / 6.3x7.7mm / ESR 30mOhm / ripple 1.8Arms
Hybrid Cap / ZKU / SMD / 35V / 120 μ F / 125°C / 4000h / 6.3x7.7mm / ESR 35mOhm / ripple 1.7Arms
Hybrid Cap / ZK / SMD / 35V / 330 μ F / 125°C / 4000h / 10x10.5mm / ESR 20mOhm / ripple 2.8Arms / Anti-Vib
Hybrid Cap / ZK / SMD / 25V / 150 μ F / 125°C / 4000h / 6.3x7.7mm / ESR 30mOhm / ripple 1.68Arms
Hybrid Cap / ZK / SMD / 25V / 150 μ F / 125°C / 4000h / 6.3x8mm / ESR 30mOhm / ripple 1.68Arms / Anti-Vibr
Hybrid Cap / ZK / SMD / 25V / 270 μ F / 125°C / 4000h / 8x10.2mm / ESR 27mOhm / ripple 1.92Arms
Hybrid Cap / ZK / SMD / 35V / 180 μ F / 125°C / 4000h / 8x10.2mm / ESR 27mOhm / ripple 1.92Arms
Hybrid Cap / ZK / SMD / 35V / 56 μ F / 125°C / 4000h / 6.3x5.8mm / ESR 60mOhm / ripple 1.08Arms
Hybrid Cap / ZK / SMD / 25V / 68 μ F / 125°C / 4000h / 6.3x6.1mm / ESR 50mOhm / ripple 1.08Arms / Anti-Vibr
Hybrid Cap / ZK / SMD / 25V / 68 μ F / 125°C / 4000h / 6.3x5.8mm / ESR 50mOhm / ripple 1.08Arms
Hybrid Cap / ZK / SMD / 25V / 82 μ F / 125°C / 4000h / 6.3x6.1mm / ESR 50mOhm / ripple 1.08Arms / Anti-Vibr
Hybrid Cap / ZK / SMD / 35V / 100 μ F / 125°C / 4000h / 6.3x7.7mm / ESR 35mOhm / ripple 1.68Arms
Hybrid Cap / ZK / SMD / 35V / 100 μ F / 125°C / 4000h / 6.3x8mm / ESR 35mOhm / ripple 1.68Arms / Anti-Vibr
Hybrid Cap / ZK / SMD / 25V / 270 μ F / 125°C / 4000h / 8x10.5mm / ESR 27mOhm / ripple 1.92Arms / Anti-Vib
Hybrid Cap / ZK / SMD / 35V / 180 μ F / 125°C / 4000h / 8x10.5mm / ESR 27mOhm / ripple 1.92Arms / Anti-Vib
Hybrid Cap / ZK / SMD / 25V / 82 μ F / 125°C / 4000h / 6.3x5.8mm / ESR 50mOhm / ripple 1.08Arms
Hybrid Cap / ZK / SMD / 35V / 56 μ F / 125°C / 4000h / 6.3x6.1mm / ESR 60mOhm / ripple 1.08Arms / Anti-Vibr
Hybrid Cap / ZKU / SMD / 25V / 330 μ F / 125°C / 4000h / 8x10.2mm / ESR 27mOhm / ripple 2Arms
Hybrid Cap / ZKU / SMD / 25V / 100 μ F / 125°C / 4000h / 6.3x6.1mm / ESR 50mOhm / ripple 1.3Arms / Anti-Vil
Hybrid Cap / ZKU / SMD / 35V / 68 μ F / 125°C / 4000h / 6.3x6.1mm / ESR 60mOhm / ripple 1.2Arms / Anti-Vibr
Hybrid Cap / ZKU / SMD / 25V / 180 μ F / 125°C / 4000h / 6.3x8mm / ESR 30mOhm / ripple 1.8Arms / Anti-Vibr
Hybrid Cap / ZKU / SMD / 35V / 120 μ F / 125°C / 4000h / 6.3x8mm / ESR 35mOhm / ripple 1.7Arms / Anti-Vibr
Hybrid Cap / ZKU / SMD / 35V / 220 μ F / 125°C / 4000h / 8x10.2mm / ESR 27mOhm / ripple 2Arms
Hybrid Cap / ZKU / SMD / 25V / 560 μ F / 125°C / 4000h / 10x10.2mm / ESR 20mOhm / ripple 2.8Arms
Hybrid Cap / ZKU / SMD / 25V / 330 μ F / 125°C / 4000h / 8x10.5mm / ESR 27mOhm / ripple 2Arms / Anti-Vibra
Hybrid Cap / ZKU / SMD / 35V / 220 μ F / 125°C / 4000h / 8x10.5mm / ESR 27mOhm / ripple 2Arms / Anti-Vibra
Hybrid Cap / ZKU / SMD / 35V / 390 μ F / 125°C / 4000h / 10x10.2mm / ESR 20mOhm / ripple 2.8Arms
Hybrid Cap / ZKU / SMD / 25V / 560 μ F / 125°C / 4000h / 10x10.5mm / ESR 20mOhm / ripple 2.8Arms / Anti-Vi
Hybrid Cap / ZKU / SMD / 35V / 390 μ F / 125°C / 4000h / 10x10.5mm / ESR 20mOhm / ripple 2.8Arms / Anti-Vi
Hybrid Cap / ZA / SMD / 25V / 47 μ F / 105°C / 10000h / 6.3x6.1mm / ESR 50mOhm / ripple 1.3Arms / Anti-Vibr
Hybrid Cap / ZA / SMD / 25V / 56 μ F / 105°C / 10000h / 6.3x6.1mm / ESR 50mOhm / ripple 1.3Arms / Anti-Vibr
Hybrid Cap / ZA / SMD / 50V / 22 μ F / 105°C / 10000h / 6.3x6.1mm / ESR 80mOhm / ripple 1.1Arms / Anti-Vibr
Hybrid Cap / ZA / SMD / 63V / 10 μ F / 105°C / 10000h / 6.3x6.1mm / ESR 120mOhm / ripple 1Arms / Anti-Vibr
Hybrid Cap / ZA / SMD / 35V / 27 μ F / 105°C / 10000h / 6.3x6.1mm / ESR 60mOhm / ripple 1.3Arms / Anti-Vibr
Hybrid Cap / ZA / SMD / 35V / 33 μ F / 105°C / 10000h / 6.3x6.1mm / ESR 60mOhm / ripple 1.3Arms / Anti-Vibr
Hybrid Cap / ZA / SMD / 35V / 47 μ F / 105°C / 10000h / 6.3x6.1mm / ESR 60mOhm / ripple 1.3Arms / Anti-Vibr
Hybrid Cap / ZA / SMD / 25V / 100 μ F / 105°C / 10000h / 6.3x8mm / ESR 30mOhm / ripple 2Arms / Anti-Vibrati
Hybrid Cap / ZA / SMD / 25V / 68 μ F / 105°C / 10000h / 6.3x8mm / ESR 30mOhm / ripple 2Arms / Anti-Vibratic
Hybrid Cap / ZA / SMD / 50V / 33 μ F / 105°C / 10000h / 6.3x8mm / ESR 40mOhm / ripple 1.6Arms / Anti-Vibrat
Hybrid Cap / ZA / SMD / 63V / 22 μ F / 105°C / 10000h / 6.3x8mm / ESR 80mOhm / ripple 1.5Arms / Anti-Vibrat
Hybrid Cap / ZA / SMD / 35V / 68 μ F / 105°C / 10000h / 6.3x8mm / ESR 35mOhm / ripple 2Arms / Anti-Vibratic
Hybrid Cap / ZA / SMD / 25V / 150 μ F / 105°C / 10000h / 8x10.5mm / ESR 27mOhm / ripple 2.3Arms / Anti-Vib

[illegible]

Case Size

10x10.2
10x10.2
6.3x5.8
6.3x5.8
10x10.5
6.3x7.7
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