

24<sup>h</sup> February 2022

PCN (Product Change Notification) reference: **2022/01**

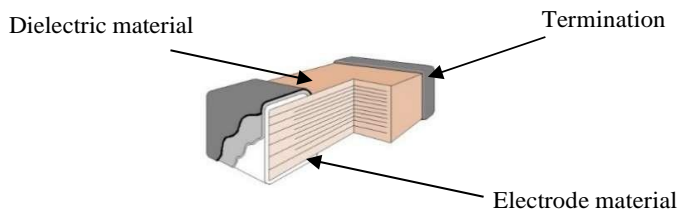
Subject: Change of Dielectric Withstand Voltage (DWV) for 630Vdc rated parts

Dear Customer,

The purpose of this notification is to advise that Knowles Precision Devices intend to update their standard DWV test voltage for 630V rated MLCC's to min 820Vdc (1.3 x Rated Voltage), in line with common industry standards, as below

IEC60384-21:2019 (Class 1) and IEC 30384-22:2019 (Class 2)

JISC5101-21:2014 (Class 1) and JISC5101-22:2014 (Class 2)



**Diagram of internal construction**

The change only applies to MLCC's with 630V rated, please note:

- No changes with respect to Knowles product performance
- No changes with respect to manufacturing processes.

Customers are requested to respond to this PCN within 30 days regarding any concerns.

If you require further information, please contact your local Maxmega Customer Service Office.

Yours sincerely,



Alice Liu  
Quality Manager

## PCN Details

PCN reference: 2022/01

PCN Issue Date: 24<sup>th</sup> February 2022

Product:

### Syfer™ Surface Mount part numbers:

Example	1812	Y	630	0104	K	J	T	---
	Size	Termination	Voltage	Capacitance	Capacitance Tolerance	Dielectric	Packaging	Suffix Code



PCN affects:

1. 630Vdc rated parts with termination code 'J' or 'Y' AND dielectric code 'J'/'G'/'C'/'X'/'K'/'S'
2. 630Vdc rated parts with suffix code WS2

Non-Magnetic parts and suffix code PXX (other than WS2) parts are NOT impacted.

Most customer specific part numbers will not be impacted – please contact us with any specific request and we can confirm on an individual basis.

### Syfer™ Radial Leaded part numbers:

Example	8121	M	630	0104	K	J	T	C42	---
	Size	Lead Style and size	Voltage	Capacitance	Capacitance Tolerance	Dielectric	Packaging	RoHS Status	Suffix Code



PCN affects 630Vdc rated parts with lead style 'M', 'N' or 'T' AND dielectric code 'C' or 'X'

Non-Magnetic and reduced magnetic radial leaded parts are NOT impacted.

Most customer specific part numbers will not be impacted – please contact us with any specific request and we can confirm on an individual basis.

Novacap™ Surface Mount part numbers:

Example	1812	RN	104	K	630	C	T
	Size	Dielectric	Capacitance	Tolerance	Voltage	Termination	Packaging



PCN affects 630Vdc rated parts with termination code 'N' or 'C' AND with dielectric code RB or RN

Novacap™ Radial Leaded part numbers:

Example	1812	RN	104	K	630	C	T	R
	Size	Dielectric	Capacitance	Tolerance	Voltage	Lead Style	Packaging	Lead Finish



PCN affects 630Vdc rated parts with dielectric code RB or RN

Request Description: Update default standard DWV voltage in line with common industry practice

Reasons for Request: Alignment with industry practice

Changes to Form,  
Fit or Function: None

Changes to Quality  
or Reliability: No negative impact

Changes to Part  
Numbers: None.

Qualification  
Results: N/A

Are Samples  
Available? Available on request.

Implementation date: 90 days after PCN issue date.