

## Product/Process Change Notification

### PCN-083022-AGA Comm

Dielectric material formulation change.

<b>Date:</b>	<b>ID Number (MMDDYY):</b> 083022										
<b>Affected Products</b>	<b>Product Line:</b> X7R	<b>Case Size:</b> 0805		<b>Cap:</b> 225 (2.2 $\mu$ F), 105 (1.0 $\mu$ F)							
	<b>Voltage:</b> see table.	<b>Tolerances:</b> All		<b>C-spec's:</b> 7800, 7210, 7025, 7215 Suffix: TU							
	<b>Grade:</b> Commercial	<b>Termination:</b> Commercial Flexible Termination Only									
<b>Change</b>											
KEMET has improved its dielectric material formulation ensuring additional supply of MLCCs to meet increasing customer demand. Qualification testing has been performed in accordance with our Performance & Reliability stated on Commercial Catalog.											
<b>Flexible Termination</b>											
Part Type	Length (mm)		Width (mm)		Thickness (mm)		DF (Max %)		IR MIN (Mohm)		pcs / reel (7in / 13in)
	Current	Planned	Current	Planned	Current	Planned	Current	Planned	Current	Planned	No changes
0805 X7R 2.2 $\mu$ F 25V	2.0 $\pm$ 0.35	2.0 $\pm$ 0.35	1.25 $\pm$ 0.30	1.25 $\pm$ 0.30	1.25 $\pm$ 0.15	1.25 $\pm$ 0.30	10%	10%	45.5	45.5	2,500 / 10,000
0805 X7R 2.2 $\mu$ F 16V	2.0 $\pm$ 0.35	2.0 $\pm$ 0.35	1.25 $\pm$ 0.30	1.25 $\pm$ 0.30	1.25 $\pm$ 0.15	1.25 $\pm$ 0.30	10%	10%	45.5	45.5	2,500 / 10,000
0805 X7R 2.2 $\mu$ F 10V	2.0 $\pm$ 0.35	2.0 $\pm$ 0.35	1.25 $\pm$ 0.30	1.25 $\pm$ 0.30	1.25 $\pm$ 0.15	1.25 $\pm$ 0.30	10%	10%	45.5	45.5	2,500 / 10,000
0805 X7R 2.2 $\mu$ F 6.3V	2.0 $\pm$ 0.35	2.0 $\pm$ 0.35	1.25 $\pm$ 0.30	1.25 $\pm$ 0.30	1.25 $\pm$ 0.15	1.25 $\pm$ 0.30	10%	10%	45.5	45.5	2,500 / 10,000
0805 X7R 1.0 $\mu$ F 50V	2.0 $\pm$ 0.35	2.0 $\pm$ 0.35	1.25 $\pm$ 0.30	1.25 $\pm$ 0.30	1.25 $\pm$ 0.20	1.25 $\pm$ 0.30	10%	10%	100	100	2,500 / 10,000
<b>Ordering Information</b>											
<b>C</b>	<b>0805</b>	<b>X</b>	<b>225</b>	<b>K</b>	<b>3,4,8,9</b>	<b>R</b>	<b>A</b>	<b>C</b>	<b>TU</b>		
<b>C</b>	<b>0805</b>	<b>X</b>	<b>105</b>	<b>K</b>	<b>5</b>	<b>R</b>	<b>A</b>	<b>C</b>	<b>TU</b>		
<b>Cer</b>	<b>Case Size (LxW)</b>	<b>Specification / Series</b>	<b>Capacitance Code (pF)</b>	<b>Capacitance Tolerance</b>	<b>Rated Voltage (VDC)</b>	<b>Diel.</b>	<b>Failure Rate/ Design</b>	<b>Termination Finish</b>	<b>Packaging/ Grade (C-Spec)</b>		
	0805	X= Flexible Termination	Two significant digits + number of zeros.	J = $\pm$ 5% K = $\pm$ 10% M = $\pm$ 20%	9 = 6.3V 8 = 10V 4 = 16V 3 = 25V 5 = 50V	R = X7R	A= N/A	C=100% Sn	TU= 7in T&R Unmarked		
<b>Effective Date and Identification</b>		Target Implementation December 7 <sup>th</sup> , 2022									

**KEMET Corporation**

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