

Reference: QOD-510

**Product/Process Change Notification**  
**PCN-031122-AGA**  
 Change in thickness tolerances and electrical limits.

Affected Product Scope:	Grade: Commercial			ID Number (MMDDYY): 031122				
	Diel	Case Size	Capacitance (Cap Code)	Voltages		End Term (C)	Tol	C-specs
X7R	0603	47nF (473)	25V, 16V, 10V & 6.3V		100% Sn	J,K,M	7800 7210 7411 7867 7025 7013 7040 7081 7082	
	0805	100nF (104)	50V, 35V, 25V, 16V, 10V & 6.3V			J,K,M		
	0805	1.0µF (105)	25V			J,K,M		
	0805	2.2µF (225)	25V			J,K,M		
	0805	4.7 µF (475)	25V			J,K,M		
	1206	1.0µF (105)	100V			K,M		
	1210	2.2µF (225)	100V			K,M		
	1210	10µF (106)	50V			K,M		
	X5R	0402	220nF (224)	6.3V, 4V		K,M		
		0402	470nF (474)	6.3V, 4V		K,M		
		0805	2.2µF (225)	25V		K,M		
		1210	4.7µF (475)	25V, 16V, 10V & 6.3V		K,M		
		1210	10µF (106)	50V, 25V		K,M		
Y5V	1210	4.7µF (475)	16V, 10V, 6.3V		M,Z	Suffix TU TM		

See Affected part list below.

**Change:** The following KEMET parts will change in dimensional tolerances and/or some electrical limits.

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	
X7R 0603 47nF 25V	1.0±0.15	1.0±0.15	0.8±0.15	0.8±0.15	0.8±0.07	0.80±0.10	3.5%	3.5%	10,000	10,000	4,000 / 15,000
X7R 0603 47nF 16V	1.0±0.15	1.0±0.15	0.8±0.15	0.8±0.15	0.8±0.07	0.80±0.10	3.5%	3.5%	10,000	10,000	4,000 / 15,000
X7R 0603 47nF 10V	1.0±0.15	1.0±0.15	0.8±0.15	0.8±0.15	0.8±0.07	0.80±0.10	5.0%	5.0%	10,000	10,000	4,000 / 15,000
X7R 0603 47nF 6.3V	1.0±0.15	1.0±0.15	0.8±0.15	0.8±0.15	0.8±0.07	0.80±0.10	5.0%	5.0%	10,000	10,000	4,000 / 15,000
X7R 0805 100nF 50V	2.0±0.20	2.0±0.20	1.25±0.20	1.25±0.20	0.78±0.10	0.78±0.10	2.5%	2.5%	10,000	5,000	4,000 / 15,000
X7R 0805 100nF 35V	2.0±0.20	2.0±0.20	1.25±0.20	1.25±0.20	0.78±0.10	0.78±0.10	2.5%	2.5%	10,000	5,000	4,000 / 15,000
X7R 0805 100nF 25V	2.0±0.20	2.0±0.20	1.25±0.20	1.25±0.20	0.78±0.10	0.78±0.10	3.5%	3.5%	10,000	5,000	4,000 / 15,000
X7R 0805 100nF 16V	2.0±0.20	2.0±0.20	1.25±0.20	1.25±0.20	0.78±0.10	0.78±0.10	3.5%	3.5%	10,000	5,000	4,000 / 15,000
X7R 0805 100nF 10V	2.0±0.20	2.0±0.20	1.25±0.20	1.25±0.20	0.78±0.10	0.78±0.10	5.0%	5.0%	10,000	5,000	4,000 / 15,000
X7R 0805 100nF 6.3V	2.0±0.20	2.0±0.20	1.25±0.20	1.25±0.20	0.78±0.10	0.78±0.10	5.0%	5.0%	10,000	5,000	4,000 / 15,000
X7R 0805 1µF 25V	2.0±0.20	2.0±0.20	1.25±0.20	1.25±0.20	1.25±0.15	1.25±0.20	3.5%	5.0%	500	500	2,500 / 10,000
X7R 0805 2.2µF 25V	2.0±0.20	2.0±0.20	1.25±0.20	1.25±0.20	1.25±0.15	1.25±0.20	10.0%	10.0%	45	45	2,500 / 10,000
X7R 0805 4.7µF 25V	2.0±0.20	2.0±0.20	1.25±0.20	1.25±0.20	1.25±0.15	1.25±0.20	10.0%	10.0%	21	21	2,500 / 10,000
X7R 1206 1µF 100V	3.2±0.20	3.2±0.30	1.60±0.20	1.60±0.20	1.60±0.20	1.60±0.20	2.5%	5.0%	500	500	2,000 / 8,000
X7R 1210 2.2µF 100V	3.2±0.20	3.2±0.30	2.50±0.20	2.50±0.20	1.90±0.20	2.00±0.20	2.5%	10.0%	10	10	2,000 / 8,000
X7R 1210 10µF 50V	3.2±0.20	3.2±0.40	2.50±0.20	2.50±0.30	2.50±0.30	2.50±0.30	2.5%	5.0%	10	10	2,000 / 8,000

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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	
X5R 0402 220nF 6.3V	1.0±0.05	1.0±0.05	0.5±0.05	0.5±0.05	0.5±0.05	0.5±0.05	5.0%	10.0%	2,273	2,273	10,000 / 50,000
X5R 0402 220nF 4V	1.0±0.05	1.0±0.05	0.5±0.05	0.5±0.05	0.5±0.05	0.5±0.05	5.0%	10.0%	2,273	2,273	10,000 / 50,000
X5R 0402 470nF 6.3V	1.0±0.05	1.0±0.05	0.5±0.05	0.5±0.05	0.5±0.05	0.5±0.05	5.0%	10.0%	1,063	1,063	10,000 / 50,000
X5R 0402 470nF 4V	1.0±0.05	1.0±0.05	0.5±0.05	0.5±0.05	0.5±0.05	0.5±0.05	5.0%	10.0%	1,063	1,063	10,000 / 50,000
X5R 0805 2.2uF 25V	2.0±0.20	2.0±0.20	1.25±0.20	1.25±0.20	1.25±0.15	1.25±0.20	10.0%	10.0%	45	45	2,500 / 10,000
X5R 1210 4.7uF 25V	3.2±0.20	3.2±0.40	2.5±0.20	2.5±0.30	1.9±0.20	1.9±0.20	10.0%	10.0%	21	21	2,000 / 8,000
X5R 1210 4.7uF 16V	3.2±0.20	3.2±0.40	2.5±0.20	2.5±0.30	1.9±0.20	1.9±0.20	10.0%	10.0%	21	21	2,000 / 8,000
X5R 1210 4.7uF 10V	3.2±0.20	3.2±0.40	2.5±0.20	2.5±0.30	1.9±0.20	1.9±0.20	10.0%	10.0%	21	21	2,000 / 8,000
X5R 1210 4.7uF 6.3V	3.2±0.20	3.2±0.40	2.5±0.20	2.5±0.30	1.9±0.20	1.9±0.20	10.0%	10.0%	21	21	2,000 / 8,000
X5R 1210 10uF 50V	3.2±0.20	3.2±0.40	2.5±0.20	2.5±0.30	2.5±0.30	2.5±0.30	10.0%	10.0%	10	10	2,000 / 8,000
X5R 1210 10uF 25V	3.2±0.20	3.2±0.40	2.5±0.20	2.5±0.30	1.9±0.20	1.9±0.20	10.0%	10.0%	10	10	2,000 / 8,000

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	
Y5V 1210 4.7uF 16V	3.2±0.20	3.2±0.40	2.5±0.20	2.5±0.30	1.9±0.20	1.9±0.20	7.0%	10.0%	21	21	2,000 / 8,000
Y5V 1210 4.7uF 10V	3.2±0.20	3.2±0.40	2.5±0.20	2.5±0.30	1.9±0.20	1.9±0.20	10.0%	10.0%	10	10	2,000 / 8,000
Y5V 1210 4.7uF 6.3V	3.2±0.20	3.2±0.40	2.5±0.20	2.5±0.30	1.9±0.20	1.9±0.20	10.0%	10.0%	10	10	2,000 / 8,000

<b>Effective Date</b>	Shipments beginning June 30 <sup>th</sup> , 2022
<b>Notes</b>	This is a Commercial PCN for Notification only. Do not need written approval
<b>To Obtain Samples or General Information Contact</b>	<p>Ana Garza            Technical Product Engineer   Ceramic Product Business Unit            KEMET Electronics Corporation  <a href="mailto:Ana.Garza@yageo.com">Ana.Garza@yageo.com</a></p> <p>Rebecca Chadwick            Product Manager – Commercial MLCCs   Ceramic Product Business Unit            KEMET Electronics Corporation  <a href="mailto:Rebecca.Chadwick@yageo.com">Rebecca.Chadwick@yageo.com</a></p>

**KEMET Proprietary Information**  
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Reference: QOD-510

Affected part types:		
C0603C473J3RAC	C0603C473K3RAC	C0603C473M3RAC
C0603C473J4RAC	C0603C473K4RAC	C0603C473M4RAC
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C0805C104J5RACTU	C0805C104K5RACTU	C0805C104M5RACTU
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Reference: QOD-510

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C0402C474K7PAC	C0402C474M7PAC	

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C0402C474K9PACTU	C0402C474M9PACTU	
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C1210C475K8PAC7800	C1210C475M8PAC7800	
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C1210C475K8PAC7215	C1210C475M8PAC7215	
C1210C475K9PAC7215	C1210C475M9PAC7215	
C1210C106K3PAC	C1210C106M3PAC	
C1210C106K5PAC	C1210C106M5PAC	
C1210C106K3PACTU	C1210C106M3PACTU	
C1210C106K5PACTU	C1210C106M5PACTU	
C1210C106K3PAC7800	C1210C106M3PAC7800	
C1210C106K5PAC7800	C1210C106M5PAC7800	
C1210C106K3PAC7210	C1210C106M3PAC7210	
C1210C106K5PAC7210	C1210C106M5PAC7210	

Reference: QOD-510

C1210C106K3PAC7025	C1210C106M3PAC7025	
C1210C106K5PAC7025	C1210C106M5PAC7025	
C1210C106K3PAC7215	C1210C106M3PAC7215	
C1210C106K5PAC7215	C1210C106M5PAC7215	
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C1210C475M8VAC	C1210C475Z8VAC	
C1210C475M9VAC	C1210C475Z9VAC	
C1210C475M4VAC7800	C1210C475Z4VAC7800	
C1210C475M8VAC7800	C1210C475Z8VAC7800	
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C1210C475M8VAC7215	C1210C475Z8VAC7215	
C1210C475M9VAC7215	C1210C475Z9VAC7215	

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