

Reference: QOD-510

Product/Process Change Notification
PCN-120121-AGA
Change in thickness tolerances and electrical limits.

Date:	Grade: Commercial		ID Number (MMDDYY): 032521																																																			
Affected Products	<table border="1"> <thead> <tr> <th>Dielectric</th> <th>Case Size</th> <th>Cap</th> <th colspan="4">Voltages</th> <th colspan="2">Termination</th> </tr> </thead> <tbody> <tr> <td rowspan="4">X7R Commercial Grade</td> <td>0603</td> <td>10nF</td> <td colspan="4">100V, 50V, 25V, 16V, 10V, 6.3V</td> <td colspan="2">100% Sn</td> </tr> <tr> <td>0805</td> <td>1uF</td> <td colspan="4">25V, 35V, 50V</td> <td colspan="2"></td> </tr> <tr> <td>0805</td> <td>4.7uF</td> <td colspan="4">16V, 10V, 6.3V</td> <td colspan="2"></td> </tr> <tr> <td>1206</td> <td>10uF</td> <td colspan="4">16V</td> <td colspan="2"></td> </tr> </tbody> </table>												Dielectric	Case Size	Cap	Voltages				Termination		X7R Commercial Grade	0603	10nF	100V, 50V, 25V, 16V, 10V, 6.3V				100% Sn		0805	1uF	25V, 35V, 50V						0805	4.7uF	16V, 10V, 6.3V						1206	10uF	16V					
	Dielectric	Case Size	Cap	Voltages				Termination																																														
	X7R Commercial Grade	0603	10nF	100V, 50V, 25V, 16V, 10V, 6.3V				100% Sn																																														
		0805	1uF	25V, 35V, 50V																																																		
		0805	4.7uF	16V, 10V, 6.3V																																																		
1206		10uF	16V																																																			
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		No changes																																										
X7R 0603 10nF 100V	1.6±0.15	1.6±0.15	0.80±0.15	0.80±0.15	0.80±0.07	0.80±0.10	2.5%	2.5%	100,000	10,000	4000/15000																																											
X7R 0603 10nF 50V	1.6±0.15	1.6±0.15	0.80±0.15	0.80±0.15	0.80±0.07	0.80±0.10	2.5%	2.5%	100,000	10,000	4000/15000																																											
X7R 0603 10nF 25V	1.6±0.15	1.6±0.15	0.80±0.15	0.80±0.15	0.80±0.07	0.80±0.10	3.5%	3.5%	100,000	10,000	4000/15000																																											
X7R 0603 10nF 16V	1.6±0.15	1.6±0.15	0.80±0.15	0.80±0.15	0.80±0.07	0.80±0.10	3.5%	3.5%	100,000	10,000	4000/15000																																											
X7R 0603 10nF 10V	1.6±0.15	1.6±0.15	0.80±0.15	0.80±0.15	0.80±0.07	0.80±0.10	5.0%	5.0%	100,000	10,000	4000/15000																																											
X7R 0603 10nF 6.3V	1.6±0.15	1.6±0.15	0.80±0.15	0.80±0.15	0.80±0.07	0.80±0.10	5.0%	5.0%	100,000	10,000	4000/15000																																											
X7R 0805 1uF 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	2500/10000																																											
X7R 0805 1uF 50V	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%	10%	100	100	2500/10000																																											
X7R 0805 1uF 35V	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%	10%	500	500	2500/10000																																											
X7R 0805 4.7uF 16V	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%	10%	21.3	21.3	2500/10000																																											
X7R 0805 4.7uF 10V	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%	10%	21.3	21.3	2500/10000																																											
X7R 0805 4.7uF 6.3V	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%	10%	21.3	21.3	2500/10000																																											
X7R 1206 10uF 16V	3.2±0.20	3.2±0.30	1.60±0.20	1.60±0.20	1.60±0.20	1.60±0.20	10%	10%	10	10	2000/8000																																											
Effective Date and Identification	April 4th, 2022																																																					
To Obtain Samples or General Information Contact	Ana Garza Product Management CBG (956) 982 4644 anagarza@kemet.com																																																					

KEMET Proprietary Information
Entire Contents not to be shared without express written consent of KEMET Electronics Corporation.

Affected part types with 24-month sales history:

See list attached with affected KEMET part numbers.

X7R 0603 10nF 100V	X7R 0603 10nF 50V	X7R 0603 10nF 25V	X7R 1206 10uF 16V
C0603C103K1RAC	C0603C103K5RAC	C0603C103K3RAC	C1206C106K4RAC
C0603C103K1RACTU	C0603C103K5RACTU	C0603C103K3RACTU	C1206C106K4RACTU
C0603C103K1RAC7081	C0603C103K5RAC7013	C0603C103K3RAC7013	C1206C106K4RAC7025
C0603C103K1RAC7082	C0603C103K5RAC7040	C0603C103K3RAC7411	C1206C106K4RAC7210
C0603C103K1RAC7411	C0603C103K5RAC7081	C0603C103K3RAC7867	C1206C106K4RAC7215
C0603C103K1RAC7867	C0603C103K5RAC7082	C0603C103M3RAC	C1206C106K4RAC7800
C0603C103K1RACT500	C0603C103K5RAC7411	C0603C103J3RAC7013	C1206C106M4RAC7025
C0603C103J1RAC7867	C0603C103K5RAC7867	C0603C103J3RAC7867	C1206C106M4RAC7210
	C0603C103M5RAC7867		C1206C106M4RAC7800
X7R 0805 1uF 50V	C0603C103J5RAC	X7R 0603 10nF 16V	C1206C106J4RAC7800
C0805C105K5RAC7025	C0603C103J5RAC7013	C0603C103K4RAC	
C0805C105K5RAC7210	C0603C103J5RAC7411	C0603C103K4RACTU	
C0805C105K5RAC7800	C0603C103J5RAC7867	C0603C103K4RAC7013	
C0805C105M5RAC7800		C0603C103K4RAC7867	
	X7R 0805 4.7uF 16V	C0603C103M4RACTU	
X7R 0805 1uF 25V	C0805C475K4RAC	C0603C103M4RAC7082	
C0805C105K3RAC	C0805C474K4RACTU	C0603C103M4RAC7411	
C0805C105K3RACTU	C0805C475K4RAC7025	C0603C103M4RAC7867	
C0805C105K3RAC7025	C0805C475K4RAC7210	C0603C103M4RAC7867	
C0805C105K3RAC7210	C0805C475K4RAC7800	C0603C103J4RAC	
C0805C105K3RAC7800	C0805C475M4RAC7800	C0603C103J4RAC7867	
C0805C105M3RAC7800	C0805C475J4RAC		
C0805C105J3RAC7025	X7R 0805 4.7uF 10V	X7R 0603 10nF 10V	
C0805C105J3RAC7800	C0805C475K8RACTU	C0603C103K8RAC	
	C0805C475K8RAC7210	C0603C103K8RACTU	
X7R 0805 1uF 35V	C0805C475K8RAC7800	C0603C103K8RAC7867	
C0805C105K6RAC	C0805C475M8RAC7800	C0603C103J8RAC7867	
C0805C105K6RACTU	C0805C475M8RAC7800		
C0805C105K6RAC7800	C0805C475J8RAC	X7R 0603 10nF 6.3V	
	X7R 0805 4.7uF 6.3V	C0603C103K9RAC	
	C0805C475K9RAC	C0603C103K9RACTU	
	C0805C475K9RACTU	C0603C103K9RAC7867	
	C0805C475K9RAC7800	C0603C103M9RAC	
	C0805C475M9RAC7800	C0603C103J9RAC	
	C0805C475J9RAC		