

Product/Process Change Notification
PCN-101623-AGA Auto
 Dielectric material formulation change.



	Product Line: X7R						ID Number (MMDDYY): 101623					
Affected Products	Parts affected: see table below					C-specs: AUTO, 3190, 3191						
	Grade: Automotive					Termination: 100% Sn & Flexible Termination Automotive						
Change:												
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 the requirements of AEC Q200.												
Standard Termination												
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	Current	Planned
X7R 0603 220nF 25V	1.60±0.15	1.60±0.15	0.80±0.15	0.80±0.15	0.80±0.07	0.80±0.07	5.0%	5.0%	2,272.70	2,272.70	4,000/15,000	4,000/15,000
X7R 0603 220nF 16V	1.60±0.15	1.60±0.15	0.80±0.15	0.80±0.15	0.80±0.07	0.80±0.07	5.0%	5.0%	2,272.70	2,272.70	4,000/15,000	4,000/15,000
X7R 0603 220nF 10V	1.60±0.15	1.60±0.15	0.80±0.15	0.80±0.15	0.80±0.07	0.80±0.07	5.0%	5.0%	2,272.70	2,272.70	4,000/15,000	4,000/15,000
X7R 0603 220nF 6.3V	1.60±0.15	1.60±0.15	0.80±0.15	0.80±0.15	0.80±0.07	0.80±0.07	5.0%	5.0%	2,272.70	2,272.70	4,000/15,000	4,000/15,000
X7R 0805 2.2uF 50V	2.00±0.30	2.00±0.40	1.25±0.20	1.25±0.30	1.25±0.20	1.25±0.30	10.0%	10.0%	45.50	45.50	2,500/10,000	2,500/10,000
X7R 0805 2.2uF 35V	2.00±0.30	2.00±0.40	1.25±0.20	1.25±0.30	1.25±0.20	1.25±0.30	10.0%	10.0%	45.50	45.50	2,500/10,000	2,500/10,000
X7R 1206 2.2uF 50V	3.20±0.20	3.20±0.20	1.60±0.20	1.60±0.20	1.60±0.20	1.60±0.20	10.0%	10.0%	45.50	45.50	2,000/8,000	2,000/8,000
X7R 1206 2.2uF 35V	3.20±0.20	3.20±0.20	1.60±0.20	1.60±0.20	1.60±0.20	1.60±0.20	10.0%	10.0%	45.50	45.50	2,000/8,000	2,000/8,000
X7R 1206 2.2uF 25V	3.20±0.20	3.20±0.20	1.60±0.20	1.60±0.20	1.60±0.20	1.60±0.20	10.0%	10.0%	45.50	45.50	2,000/8,000	2,000/8,000
Flexible Termination												
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	Current	Planned
X7R 0603 220nF 25V	1.60±0.17	1.60±0.25	0.80±0.15	0.80±0.15	0.80±0.15	0.80±0.15	5.0%	5.0%	2,272.70	2,272.70	4,000/15,000	4,000/15,000
X7R 0603 220nF 16V	1.60±0.17	1.60±0.25	0.80±0.15	0.80±0.15	0.80±0.15	0.80±0.15	5.0%	5.0%	2,272.70	2,272.70	4,000/15,000	4,000/15,000
X7R 0603 220nF 10V	1.60±0.17	1.60±0.25	0.80±0.15	0.80±0.15	0.80±0.15	0.80±0.15	5.0%	5.0%	2,272.70	2,272.70	4,000/15,000	4,000/15,000
X7R 0603 220nF 6.3V	1.60±0.17	1.60±0.25	0.80±0.15	0.80±0.15	0.80±0.15	0.80±0.15	5.0%	5.0%	2,272.70	2,272.70	4,000/15,000	4,000/15,000
X7R 0805 2.2uF 50V	2.00±0.35	2.00±0.40	1.25±0.30	1.25±0.30	1.25±0.25	1.25±0.30	10.0%	10.0%	45.50	45.50	2,500/10,000	2,500/10,000
X7R 0805 2.2uF 35V	2.00±0.35	2.00±0.40	1.25±0.30	1.25±0.30	1.25±0.25	1.25±0.30	10.0%	10.0%	45.50	45.50	2,500/10,000	2,500/10,000
X7R 1206 2.2uF 50V	3.30±0.40	3.30±0.40	1.60±0.35	1.60±0.35	1.60±0.20	1.60±0.35	10.0%	10.0%	45.50	45.50	2,000/8,000	2,000/8,000
X7R 1206 2.2uF 35V	3.30±0.40	3.30±0.40	1.60±0.35	1.60±0.35	1.60±0.20	1.60±0.35	10.0%	10.0%	45.50	45.50	2,000/8,000	2,000/8,000
X7R 1206 2.2uF 25V	3.30±0.40	3.30±0.40	1.60±0.35	1.60±0.35	1.60±0.20	1.60±0.35	10.0%	10.0%	45.50	45.50	2,000/8,000	2,000/8,000
Ordering Information												
C	0603	C	224	K	3,4,8,9	R	A	C	AUTO			
C	0805	C	225	K	5,6	R	A	C	AUTO			
C	1206	C	225	K	5,6,3	R	A	C	AUTO			
Cer	Case Size (LxW)	Specification / Series	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Diel.	Failure Rate/ Design	Termination Finish	Packaging/ Grade (C-Spec)			
		C= Standard X= Flexible Termination	Two significant digits + number of zeros.	J = ±5% K = ±10% M = ±20%	9 = 6.3V 8 = 10V 4 = 16V 3 = 25V 6 = 35V 5 = 50V	R = X7R	A= N/A	C=100% Sn	AUTO			
Effective Date and Identification		Beginning implementation Date 05/31/24										

To Obtain Samples or General Information Contact	Ana Garza Technical Product Engineer Ceramic Product Business Unit KEMET Electronics Corporation Ana.Garza@yageo.com Craig Scruggs Director Product Management – Automotive Ceramics Ceramic Product Business Unit KEMET Electronics Corporation Craig.Scruggs@yageo.com
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