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

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Effective Date and Identification	*Beginning implementation Date* ***05/31/24***

KEMET Corporation
KEMET Tower
One East Broward Blvd. | Fort Lauderdale, Florida, USA 33301
954.766.2800 | www.kemet.com

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