

Product/Process Change Notification

PCN-083022-AGA Auto

Dielectric material formulation change.

Date:	ID Number (MMDDYY): 083022										
Affected Products	Product Line: X7R	Case Size: 0805		Cap: 105 (1.0 μ F), 225 (2.2 μ F),							
	Voltage: see table.	Tolerances: All		C-spec's: AUTO, 3123, 3124, 3020, 3083, 3001, etc.							
	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	No changes
0805 X7R 2.2 μ F 25V	2.0 \pm 0.30	2.0 \pm 0.30	1.25 \pm 0.20	1.25 \pm 0.20	1.25 \pm 0.15	1.25 \pm 0.20	10%	10%	45.5	45.5	2,500 / 10,000
0805 X7R 2.2 μ F 16V	2.0 \pm 0.30	2.0 \pm 0.30	1.25 \pm 0.20	1.25 \pm 0.20	1.25 \pm 0.15	1.25 \pm 0.20	10%	10%	45.5	45.5	2,500 / 10,000
0805 X7R 2.2 μ F 10V	2.0 \pm 0.30	2.0 \pm 0.30	1.25 \pm 0.20	1.25 \pm 0.20	1.25 \pm 0.15	1.25 \pm 0.20	10%	10%	45.5	45.5	2,500 / 10,000
0805 X7R 2.2 μ F 6.3V	2.0 \pm 0.30	2.0 \pm 0.30	1.25 \pm 0.20	1.25 \pm 0.20	1.25 \pm 0.15	1.25 \pm 0.20	10%	10%	45.5	45.5	2,500 / 10,000
0805 X7R 1.0 μ F 50V	2.0 \pm 0.30	2.0 \pm 0.30	1.25 \pm 0.20	1.25 \pm 0.20	1.25 \pm 0.20	1.25 \pm 0.20	10%	10%	100	100	2,500 / 10,000
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	No changes
0805 X7R 2.2 μ 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 μ 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 μ 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 μ 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 μ 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
Ordering Information											
C	0805	C	225	K	3,4,8,9	R	A	C	AUTO		
C	0805	C	105	K	5	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)		
	0805	C= Standard 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	AUTO = 7in T&R Automotive Grade		
Effective Date and Identification		Target Implementation March 7 th , 2023									

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