



The DNA of tech.®

VJ...32 Lead (Pb)-Bearing AEC-Q200 Qualified MLCCs Automotive-Qualified MLCCs for Tin Whisker Prevention



ADVANTAGE

Automotive Grade reliability combined with a lead Pb-bearing (> 4 % Pb) termination finish to provide a solution for demanding applications.

MARKETS AND APPLICATIONS



MILITARY

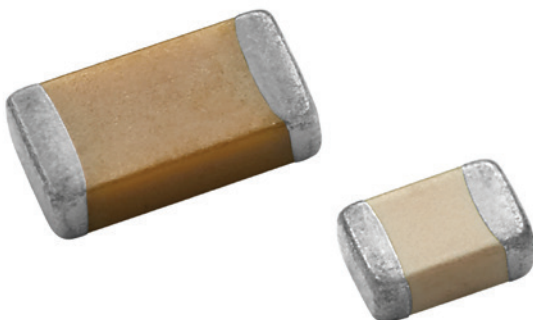
- Low Earth orbit satellites (LEO)
- Space, aerospace
- Avionics
- Military
- Tin whisker mitigation

KEY PRODUCT FEATURES

- ✓ AEC-Q200 qualified with PPAP available
- ✓ IATF 16949 and MIL-STD-790 certified factory
- ✓ Available in 0402 to 1210 body sizes

ADDITIONAL BENEFITS

- Tin / lead (Pb) termination finish ($\geq 4\%$ Pb)
- Wet build process
- Noble Metal Electrode (NME) system



RESOURCES



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[Applications White Paper](#)



[Reliability White Paper](#)



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VJ....32 Lead (Pb)-Bearing AEC-Q200 Qualified MLCCs

QUICK REFERENCE DATA				
DIELECTRIC	CASE CODE	MAXIMUM VOLTAGE (V)	CAPACITANCE	
			MINIMUM	MAXIMUM
C0G (NP0)	0402	100	1.0 pF	220 pF
	0603	200	1.0 pF	820 pF
	0805	500	1.0 pF	3.9 nF
	1206	630	1.0 pF	8.2 nF
	1210	630	100 pF	12 nF
X7R	0402	100	120 pF	33 nF
	0603	200	330 pF	150 nF
	0805	200	330 pF	470 nF
	1206	630	220 pF	1.0 μ F
	1210	630	390 pF	1.0 μ F

Note

- Detail ratings see "Selection Chart"

ORDERING INFORMATION								
VJ0805	Y	102	K	L	A	A	C	32
CASE CODE	DIELECTRIC	CAPACITANCE NOMINAL CODE	CAPACITANCE TOLERANCE	TERMINATION	DC VOLTAGE RATING ⁽¹⁾	MARKING	PACKAGING	PROCESS CODE
0402 0603 0805 1206 1210	A, D = C0G (NP0) ⁽²⁾ Y = X7R	Expressed in picofarads (pF). The first two digits are significant, the third is a multiplier. An "R" indicates a decimal point. Examples 4R7 = 4.7 pF 102 = 1000 pF	B = ± 0.10 pF C = ± 0.25 pF D = ± 0.5 pF F = ± 1 % G = ± 2 % J = ± 5 % K = ± 10 % M = ± 20 % Note C0G (NP0): B, C, D < 10 pF F, G, J, K ≥ 10 pF X7R: J, K, M	L = Ni barrier with tin lead plated finish min. 4 % lead	J = 16 V X = 25 V A = 50 V B = 100 V C = 200 V P = 250 V L = 630 V	A = unmarked	T = 7" reel / plastic tape C = 7" reel / paper tape J = 7" reel (low quantity) R = 11 1/4" / 13" reel / plastic tape P = 11 1/4" / 13" reel / paper tape	32 = AEC-Q200 qualified with tin / lead termination finish

Notes

- (1) DC voltage rating should not be exceeded in application. Other application factors may affect the MLCC performance. Consult for questions: mlcc@vishay.com
- (2) Consult Selection Chart table for correct dielectric code