

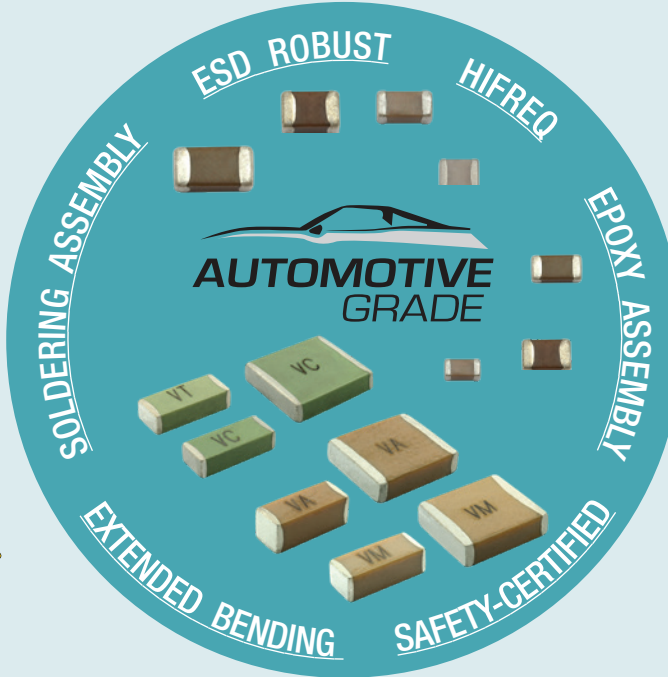
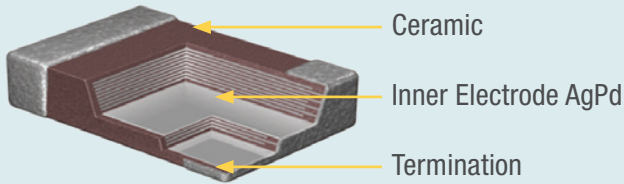


MULTILAYER CERAMIC CHIP CAPACITORS

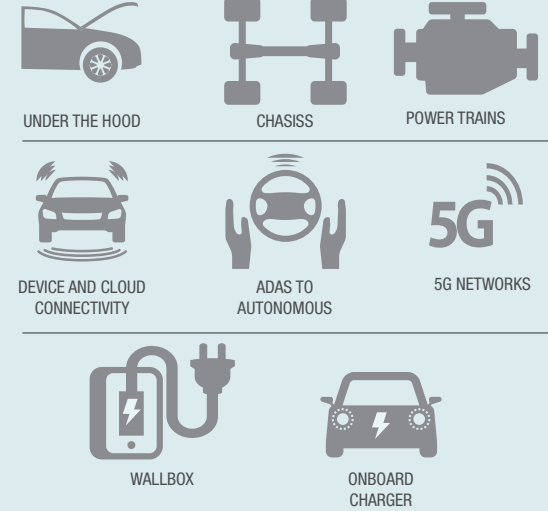
AUTOMOTIVE SERIES (AEC-Q200 QUALIFIED)

FEATURES

Wet build process with
Reliable Noble Metal Electrode (NME) system



APPLICATIONS



WHAT MAKES THE DIFFERENCE – COG (NP0), X7R

Operational Life Testing



AEC-Q200: 1000 h / 125 °C / RV

Vishay: 2000 h / 150 °C / up to 2 x RV ⚡

High Temperature Exposure



AEC-Q200: 1000 h / 125 °C

Vishay: 2000 h / 150 °C

* TERMINATION OPTIONS:

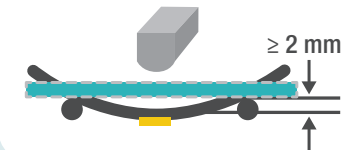
“X” = Ni barrier 100 % matte tin plate finish;

“B” / “W” = polymer / flexible 100 % matte tin plate finish;

“E” = AgPd for silver conductive epoxy assembly.

Shown at actual size (when viewed or printed at 100 %)	Dielectrics									Dielectrics	Voltages	Ranges	Termination Options*	
	-	-	■	■	■	■	■	■	■					
	0402	0603	0505	0805	1111	1206	1210	1812	2008	2220				
GA...31G Automotive Standard	X	X		X		X	X	X			COG (NP0), X7R, X8R	16 V _{DC} to 3000 V _{DC}	22 pF to 1 μF	“X” / “B”
GA...34G Automotive Conductive Epoxy Assembly	X	X		X		X	X	X			COG (NP0), X7R, X8R	16 V _{DC} to 3000 V _{DC}	22 pF to 1 μF	“E”
GA...31G Automotive Extended Bending		X		X		X	X				COG (NP0), X7R	16 V _{DC} to 630 V _{DC}	100 pF to 470 nF	“W”
GA...EDG Automotive ESD		X		X		X					X7R	25 V _{DC} to 200 V _{DC}	1 nF to 1 μF	“X”
GA...31M / GA...34G Automotive HIFREQ	X	X	X	X	X	X					HIFREQ COG (NP0)	25 V _{DC} to 1500 V _{DC}	0.1 pF to 5.1 nF	“X” / “E”
VJ...X1A / VJ...X2A Automotive Safety-Certified SMD MLCC									X	X	COG (NP0), X7R	250 V _{AC}	10 pF to 12 nF	“X” / “W”

Polymer / Flexible Termination



HIFREQ Series Modeling Tools:

