



KEMET

AUTOMOTIVE SOLUTIONS





AEC-Q200

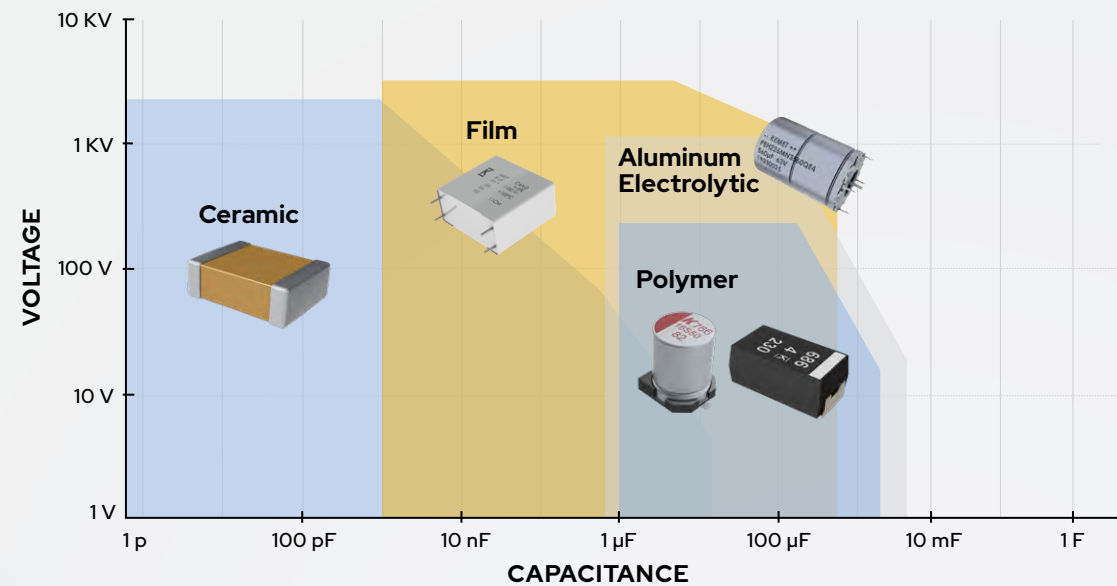
PPAP SUPPORT
ISO 9001
IATF 16949

With over 60 years of experience in the automotive industry, KEMET is a leader in component manufacturing. Our automotive portfolio surpasses expectations with a diverse product lineup and with the ability to customize additional parts based on your design requirements.

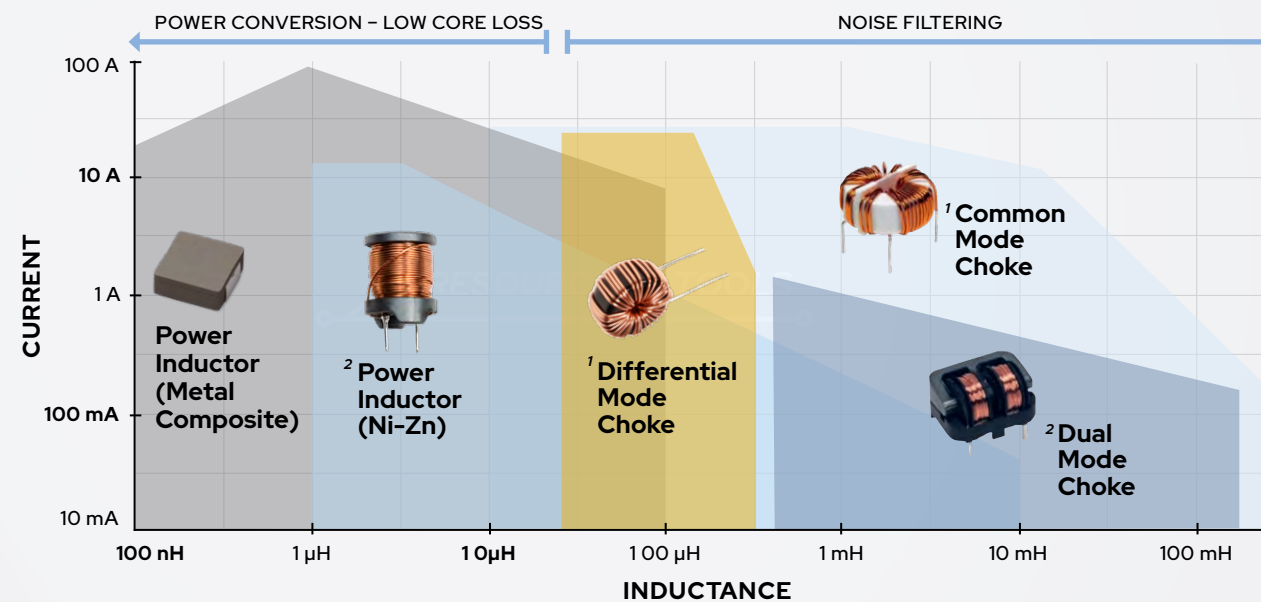
For more information, visit www.kemet.com/automotive.



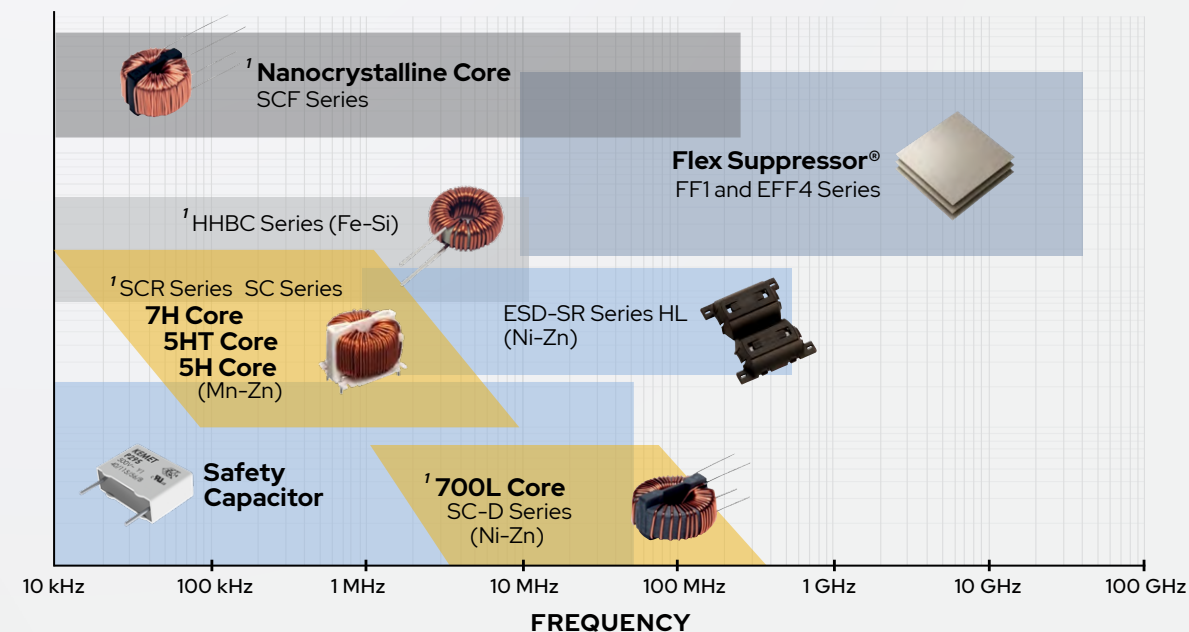
CAPACITOR SELECTION



MAGNETICS SELECTION



EMC SOLUTIONS



¹ Designed to support AEC-Q200 in system qualification
² Not AEC-Q200 rated, for reference only

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AUTOMOTIVE AEC-Q200 RATED

PRODUCT	SERIES	ADVANTAGES	FUNCTIONS	AUTOMOTIVE APPLICATIONS
 Aluminum	PEG EEV PEH2xx EXV PHA ALA7D EDT ALA8D EDH A75x EDK A76x	Very stable High vibration options Up to 165°C High current Axial, snap-in and SMD	Bulk capacitance Decoupling DC-LINK Filter Gate drivers	Powertrain Safety On-board charging Infotainment ADAS
 Ceramic	COG U2J X7R X8L X8R	High voltage > up to 3 kV (COG, X7R) Open mode, floating electrode, flexible termination High temperature 150°C (X8L, X8R) Flex mitigation	Decoupling Filtering Snubber Circuit protection DC-LINK Resonant converters	Powertrain Infotainment Airbags Keyless entry systems ADAS Wireless power transfer
 Film	F5A F5B F863 R4x C4E R6x F862 R7x LDE R8x P295 SMR PME295 F161 C4AF C4AQ	Integrated varistor (F5B) Harsh environment (F862, F863) SMD option available High ripple current Self healing	Transient protection Decoupling DC-LINK Filtering Snubber Resonant circuits	Powertrain Infotainment ADAS Electric chargers Wireless power transfer
 KO-CAP Polymer	T598 T599	High humidity 125°C High humidity 150°C	Bulk capacitance Decoupling	Powertrain Infotainment ADAS Chassis and safety
 Tantalum MnO₂	T499 T498 T491/5 T489	High temperature (T498, T499, T500) Low DCL	Bulk capacitance Decoupling	Powertrain ADAS Chassis and safety
 Power Inductor	MPLCV MPCV MPXV	Metal composite powder High current, Low DCR +155°C operating temperature	SMPS DC/DC converters High frequency Regulators LED drivers	ADAS Meter cluster panels Electric pumps Powertrain Infotainment
 Magnetics	HHBC, PHBC SC, SCR, SC-D, SCF LM-32SH FPL ESD-SR-xxxHL FF1 EFF4	Differential mode chokes Common mode chokes Permanent magnets Ferrite tiles High frequency noise suppression Noise suppression MHz to GHz band	Inverters and chargers Interference prevention EMI suppression	ADAS Powertrain Infotainment Wireless power transfer
 Transient Protection	ESD MLCC VA, VC, VE VK, VM, VG	ESD, VW80808 Varistors circuit protection	Transient protection Inverters and chargers Interference prevention EMI suppression Filtering	ADAS Infotainment Keyless entry systems