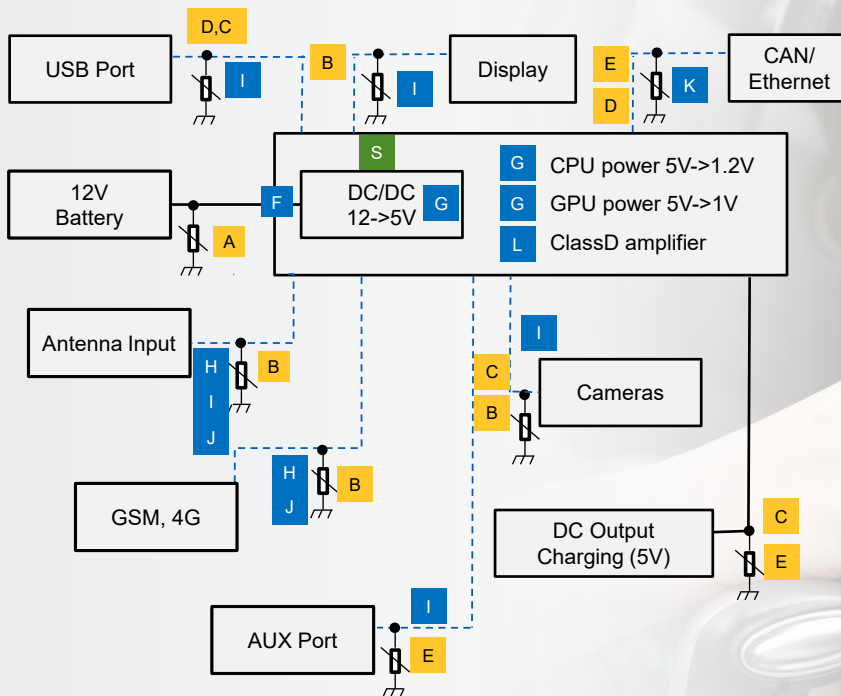


Automotive Infotainment

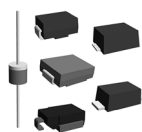
The swift advancement of automotive infotainment systems is leading to a rapid increase in data transmission and memory and data-storage capacities. It's crucial to address energy-consumption concerns, provide high reliability and ensure connectivity.

How electronic components used here?



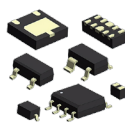
		Product	Series	Function
Circuit Protection	A	TVS Diodes	SMx TVS Diodes	Load dump/surge protection
	B	Polymer ESD suppressors	0402ESDA-AEC/PS04LTVA1	ESD protection for USB/Buttons/Antenna/Ethernet
	C	PTC resettable fuse	PTSA	USB OC Protection
	D	ESD TVS diodes Automotive rated	STN/STS	CAN/LIN ESD protection
Supercaps	E	Multilayer varistor	AMLV	CAN/LIN surge protection
	S	Coin cell supercapacitor	KR/KW	Real time clock
	F	Automotive common mode choke	CMLA	Common mode noise filtering
Magnetics	G	High current molded inductor/ Low profile molded inductor/ Semi-shielded inductors	HCM1AV2, MPIA, SDCxA	Differential mode noise filtering
	H			DC/DC
	I	Ferrite chip bead	MFBA	EMI noise reduction
	J	Multilayer chip inductor/ Wire wound chip inductors	MCLA, WCLA	RF filter, Antenna matching
	K	CAN-Ethernet inductor	ACE1V/ACE2V	Common mode noise filtering
	L	Class D audio inductor	ACDL	Class-D dual inductor

Recommended Products



TVS Diodes

- 200 W to 12000 W peak pulse capability
- SMx and xKPE packages
- Automotive grade (AEC-Q101 qualified)



ESD TVS diodes Automotive rated

- Reverse working voltages from 3.3 V up to 36 V
- Capacitances down to 0.25 pF
- AEC-Q101 qualified



0402ESDA-AEC/PS04LTVA1 Polymer ESD suppressors

- Low profile 0402 (1005 metric) compact design
- Ultra-low capacitance (0.05 pF)
- AEC-Q200 qualified



PTSA PTC resettable fuse

- Current rating 0.1 A to 2.6 A
- Voltage ratings above 13 V
- AEC-Q200 qualified



AMLV Multilayer varistors

- Up to 1200 A peak current
- Up to 56 V working voltage
- AEC-Q200 qualified



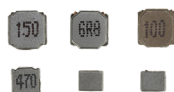
KR/KW Coin cell supercapacitors

- 11 to 21 mm diameter, height down to 6.5 mm
- Operating voltage up to 5.5 V, 0.1 F to 1.5 F capacity
- KR: -25 °C to 85 °C; KW: -40 °C to 85 °C



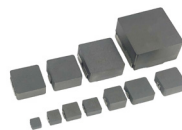
CMLA Automotive common mode choke

- Three most popular SMT sizes: 7 mm, 9 mm, 12 mm
- 700 Ω impedance, rated up to 8 A
- AEC-Q200, -40 °C to +125 °C



SDCxA Semi-shielded inductors

- 4 mm, 5 mm, 6 mm, 8 mm SMT sizes
- Inductance range: 1.0 μ H to 100 μ H, rated up to 8 A, low DCR
- AEC-Q200, -55 °C to +125 °C



HCM1AV2 High current molded inductors

- Popular SMT sizes: 4 mm, 5 mm, 7 mm, 10 mm, 13 mm, 17 mm, 22 mm
- Inductance range: 0.10 μ H to 47 μ H, rated up to 100 A, Low DCR
- AEC-Q200, -55 °C to +155 °C



MFBA Ferrite beads

- EIA/Metric Sizes: (0402/1005), (0603/1608), (0805/2012), (1206/3126)
- High impedance up to 2000 Ω , high current up to 6 A
- AEC-Q200, -55 °C to +150 °C (High temperature rating)



MCLA Multilayer chip inductors

- Standard EIA 0402 to 3216 size
- High Q, higher current ratings
- Inductance range: 1.0 nH to 12 μ H
- AECQ Grade 3 qualified



WCLA Wire wound chip inductors

- SMT sizes: 4 mm, 5 mm, 6 mm, 7 mm, 8 mm, 10 mm
- Inductance range: 0.185 μ H to 22 μ H, rated up to 58 A, low DCR
- AEC-Q200, -55 °C to +155 °C



ACE1V/2V CAN-Ethernet inductors

- EIA/Metric Size: (0805/2012), (1210/3225), (1812/4532)
- Inductance range: 11 μ H to 200 μ H
- AEC-Q200, OPEN Alliance 2.0 (ACE2V), -40 °C to +125 °C



ACDL Class D audio inductors

- Available in ferrite and molded construction
- 4.7 μ H to 33 μ H, up to 9 A
- AEC-Q200, -55 °C to +155 °C

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