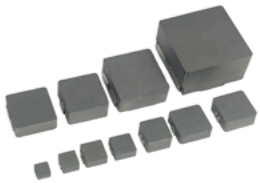


# Eaton's HCM1AV2 inductors offer more power density options for smart vehicle architectures



AEC-Q200 Grade 1 qualified HCM1AV2 product family offers surface mount packaging with a variety of footprints ranging from 4.0 mm to 22.0 mm.

### Product description:

The HCM1AV2 family of inductors is the latest advancement in power magnetics designed to meet automotive electronics power and thermal handling requirements.

Eaton's inductors use an advanced molded construction design for high current handling capabilities, better thermal dissipation characteristics and superior mechanical strength. The HCM1AV2 family has a wide variety of SMT footprints from 4.0 mm to 22.0 mm. the inductors are magnetically shielded for low EMI, has low core loss and temperature stability over the operating temperature range.

The HCM1AV2 is AEC-Q200 Automotive Grade 1 compliant allowing automotive engineers to reduce development time and project costs.

As the integration of electronics into automotive systems continues to increase, it needs provide reliable power management under demanding conditions. Automotive manufacturers require components that endure a wide temperature range, corrosive conditions, noise, electromagnetic interference (EMI) and shock to ensure many years of reliability.

### Features and benefits:

- AEC-Q200 qualified
- High current carrying capacity in a variety of footprints
- Magnetically shielded, Low EMI
- Rugged construction
- Inductance range from 0.10  $\mu$ H to 100.0  $\mu$ H
- Broad range of standard industry sizes from 4 mm to 22 mm
- Moisture sensitivity level (MSL): 1

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## HCM1AV2 Suggested applications

	Infotainment / telematics	Power doors / window lift / power mirrors / seat control	Safety / ADAS	Digital instrument cluster	Port power / USB hub	Interior & exterior lighting	Engine start	Electronic parking break	Electronic power steering	Engine & powertrain control module
HCM1A4020V2	●		●	●	●	●				
HCM1A0503V2	●	●	●	●	●	●				
HCM1A0703V2	●					●			●	
HCM1A0805V2			●	●		●			●	
HCM1A1104V2				●		●				●
HCM1A1105V2				●		●				●
HCM1A1305V2			●	●		●				●
HCM1A1307V2						●	●		●	●
HCM1A1707V2						●	●	●	●	●
HCM1A2213V2							●	●	●	●

The above lists suggested products and applications and not reflective of your specification requirements. Please reference the table below for more information.

## HCM1AV2 Product specifications

Family name	Inductance range (uH)	Irms current range (A)	Isat current range (A)	DCR maximum range(mΩ) @ +20 °C	Typical SRF range (MHz)	Size L x W x H maximum (mm)
HCM1A4020V2	0.1 - 15	1.3 - 16	1.8 - 22	4.0 - 384	14 - 350	4.75 x 4.45 x 2.0
HCM1A0503V2	0.2 - 10	2.8 - 20.5	2.3 - 20	2.0 - 108	13 - 160	5.7 x 5.4 x 3.0
HCM1A0703V2	0.1 - 33	1.6 - 29	2.3 - 54	0.8 - 242	6.5 - 350	7.3 x 6.8 x 3.0
HCM1A0805V2	3.3 - 68	2.1 - 9.2	1.9 - 8.0	10 - 175	3.3 - 19	8.4 x 8.0 x 5.4
HCM1A1104V2	0.2 - 68	2.2 - 43	3.0 - 60	0.72 - 210	39 - 726	11.2 x 10.3 x 4.0
HCM1A1105V2	0.68 - 68	2.3 - 24.5	4.0 - 30	1.93 - 211	25 - 283	11.2 x 10.3 x 5.0
HCM1A1305V2	0.1 - 33	4.5 - 48	5.2 - 80	0.59 - 58	3.0 - 234	13.8 x 12.9 x 5.0
HCM1A1307V2	0.22 - 56	4.0 - 52	4.3 - 100	0.6 - 65	2.0 - 135	13.8 x 12.9 x 6.5
HCM1A1707V2	1.0 - 68	5.0 - 36	6.8 - 57	1.46 - 60	2.0 - 34	17.45 x 17.15 x 7.0
HCM1A2213V2	0.47 - 100	6.4 - 66	8.0 - 100	0.5 - 35.5	1.9 - 52	22.78 x 22.3 x 13

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