

Automotive Power Magnetics Inductor Design Kit



HCMA High Current Automotive Iron Powder Inductors



Powering Business Worldwide



© 2015 Eaton

DK01-19495-R

www.eaton.com/electronics



HCMA Automotive Inductors

- AEC-Q200 tested and qualified (Grade 3)
- Rugged, flexible construction; highly resistant to shock and vibration environments
- Handles high transient inrush current spikes
- High current carrying capacity
- Low core losses
- Magnetically shielded, low EMI
- Iron Powder core material

Applications:

Body Electronics

- Central body control module
- Vehicle access control system
- Headlamps, tail lamps and interior lighting
- Heating Ventilation and Air Conditioning (HVAC) controllers
- Doors, window lift and seat control

Advanced driver assistance systems

- Adaptive cruise control (ACC)
- Automatic parking control
- Collision avoidance system
- Car black box system

Infotainment and cluster electronics

- Audio subsystem: head unit and trunk amp
- Digital instrument cluster
- In-Vehicle Infotainment (IVI) and navigation

Chassis and safety electronics

- Airbag control unit
- Electronic Stability Control system (ESC)
- Electric parking brake

Kit content and product specifications

Family	Inductance range (μH)	I _{rms} range (A)	I _{sat} range (A)	DCR range (mΩ) typ
HCMA0503	0.20-15.0	2.4-22	2.1-21	2.1-138
HCMA0703	0.15-33.0	1.8-26	2.0-52	1.9-220
HCMA1104	0.20-10	7.5-32	8.5-45	0.6-27
HCMA1305	0.10-33.0	5.2-55	8-118	0.5-74
HCMA1707	1.5-68	5.2-40	6.5-40	1.85-74

HCMA0503-R20-R HCMA0503-R35-R HCMA0503-R47-R HCMA0503-R75-R HCMA0503-1R0-R HCMA0503-1R5-R HCMA0503-220-R HCMA0503-2R2-R HCMA0503-3R3-R HCMA0503-4R7-R	HCMA0503-5R6-R HCMA0503-100-R HCMA0503-150-R HCMA0703-R15-R HCMA0703-R22-R HCMA0703-R47-R HCMA0703-R68-R HCMA0703-R82-R	HCMA0703-1R0-R HCMA0703-1R5-R HCMA0703-2R2-R HCMA0703-3R3-R HCMA0703-4R7-R HCMA0703-6R8-R HCMA0703-8R2-R HCMA0703-100-R HCMA0703-330-R	HCMA1305-R10-R HCMA1305-R22-R HCMA1305-R33-R	HCMA1305-R47-R HCMA1305-R56-R HCMA1305-R68-R	HCMA1305-R82-R HCMA1305-1R0-R HCMA1305-1R5-R
HCMA1305-1R8-R HCMA1305-2R2-R HCMA1305-3R3-R	HCMA1305-4R7-R HCMA1305-5R6-R HCMA1305-6R8-R	HCMA1305-7R8-R HCMA1305-8R2-R HCMA1305-100-R	HCMA1305-150-R HCMA1305-220-R HCMA1305-330-R	HCMA1104-R20-R HCMA1104-R36-R HCMA1104-R45-R	HCMA1104-R56-R HCMA1104-R90-R HCMA1104-1R0-R HCMA1104-1R5-R
HCMA1104-2R2-R HCMA1104-3R3-R HCMA1104-4R7-R HCMA1104-100-R	HCMA1707-1R5-R HCMA1707-2R2-R	HCMA1707-4R7-R HCMA1707-6R8-R	HCMA1707-8R2-R HCMA1707-100-R	HCMA1707-150-R HCMA1707-220-R	HCMA1707-330-R HCMA1707-470-R HCMA1707-680-R



Resources

Datasheets: www.eaton.com/elx-datasheets

Samples: www.eaton.com/elx-samples

Eaton Tech

Support: InductorTech@eaton.com

Digi-Key Tech

Support: Techs@digkey.com

Powering Business Worldwide



Eaton is a registered trademark.

All other trademarks are property of their respective owners.