NEXT GENERATION METAL ALLOY POWER INDUCTORS – HE SERIES

ABC's HE Series are high current SMD power inductors with low inductance values, used as power choke in high power DC/DC converters. For this series improved core materials are used to ensure best performance and lowest losses. The parts can be qualified according to ACE-Q200 on request.

FEATURES

- High current up to 84 A
- Low DCR down to 0.47 mOhm
- Metal alloy powder for lowest core losses
- AEC-Q200 on request
- Very wide range from ~4 x 4 mm to 17 x 18 mm
- Custom modification available

APPLICATIONS

- DC/DC converters, POL converters
- Industrial electronics
- Consumer/Communication
- Automotive

ELECTRICAL SPECIFICATION

TYPE	INDUCTANCE [µH]	RDC [mΩ] TYP.	RDC [mΩ] MAX.	ISAT [A] MAX. DROP 30% TYP.	IRMS [A] MAX. ΔT=40°C TYP.	DIMENSIONS [mm] L x W x H
HE0412-MSB	0.33 ~ 2.2	17.0 ~ 79.4	19.0 ~ 83.5	8.40 ~ 3.50	6.50 ~ 2.75	4.20 x 4.40 x 1.2
HE0420-MSB	0.10 ~ 10.0	3.50 ~ 256.0	4.0 ~ 282.0	22.0 ~ 2.20	12.0 ~ 1.20	4.05 x 4.45 x 2.0
HE0530-MSB	0.20 ~ 10.0	3.50 ~ 110.0	3.90 ~ 129.0	14.5 ~ 3.50	18.0 ~ 2.50	5.20 x 5.40 x 3.0
HE0618-MSB	0.10 ~ 4.7	3.00 ~ 76.6	3.50 ~ 78.0	18.0 ~ 3.00	40.0 ~ 6.00	6.60 x 7.10 x 1.8
HE0624-MSB	0.10 ~ 10.0	1.50 ~ 115.6	1.70 ~ 129.0	50.0 ~ 2.50	30.0 ~ 6.00	6.60 x 7.10 x 2.4
HE0630-MSB	0.10 ~ 10.0	1.50 ~ 102.0	1.70 ~ 105.0	60.0 ~ 7.00	32.5 ~ 3.00	6.60 x 7.10 x 3.0
HE0630-MLB	0.33 ~ 8.2	3.00 ~ 54.0	3.50 ~ 60.0	25.0 ~ 6.00	21.0 ~ 4.50	6.60 x 7.10 x 3.0
HE1040-MLB	0.19 ~ 8.2	0.50 ~ 22.0	0.70 ~ 24.0	44.0 ~ 8.30	44.0 ~ 8.30	10.0 x 11.5 x 4.0
HE1040-MSB	0.15 ~ 10.0	0.50 ~ 33.2	0.65 ~ 36.5	75.0 ~ 9.50	40.0 ~ 6.80	10.0 x 11.5 x 4.0
HE1235-MSB	0.10 ~ 10.0	0.80 ~ 30.4	0.96 ~ 34.0	84.0 ~ 13.0	43.0 ~ 7.00	12.8 x 13.5 x 3.5
HE1250-MSB	0.10 ~ 10.0	0.53 ~ 21.4	0.60 ~ 25.5	80.0 ~ 16.0	55.0 ~ 9.00	12.8 x 13.5 x 5.0
HE1265-MSB	0.10 ~ 22.0	0.47 ~ 34.0	0.50 ~ 39.5	80.0 ~ 7.50	60.0 ~ 5.00	12.8 x 13.5 x 6.5
HE1770-MSB	0.82 ~ 100.0	0.98 ~ 105.0	1.08 ~ 110.0	45.0 ~ 4.00	56.5 ~ 5.00	17.14 x 18.0 x 7.0

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