Electrical / Environmental

HM55A

NEW

RoHS Compliant

Self-Shielding Molded High-Current Inductors

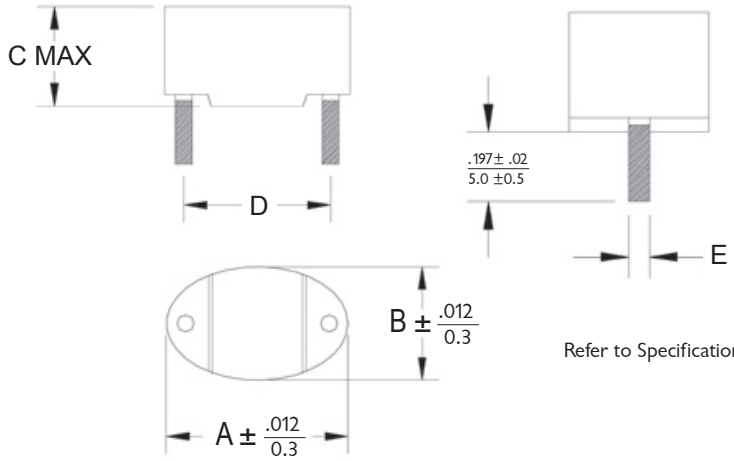
- Operating Temperature Range -40°C to +155°C
- Ambient Temperature, Maximum 100°C
- Temperature Rise, Maximum 50°C

Specifications

Part Number	Inductance 100 kHz @ 0 Adc µH ±10%	Inductance 100 kHz, 0.1 V @ I_{rated} µH Min.	Inductance 100 kHz, 0.1 V @ I_{rated} µH Typ.	I_{rated} (1) (Adc)	Heating Current (2) (Adc) ΔT=50°C	DCR (3) mΩ±5%	Dim D. (mm±0.5)	Dim.E (mm±0.1)
HM55A-16R30LF	0.28	0.21	0.25	40	32.8	0.72	12.8	1.48
HM55A-16R56LF	0.56	0.46	0.51	40	27.4	1.15	12.8	1.38

Notes:
(1) Rate current, I_{rated}, is the approximate current at which inductance will be decreased by 20% from its initial (zero DC) value.
(2) The heating current is the DC current, which causes the component temperature to increase by approximately 50°C. This current is determined by soldering the component on a typical application PCB, and then apply the current to the device for 30 minutes.
(3) DC resistance is measured at 25°C.

Outline Dimensions (Inch / mm)



Part Number	Dim. A	Dim.B	Dim.C
HM55A-16R30LF	.630 16.0	.394 10.0	.354 9.0
HM55A-16R56LF	.630 16.0	.394 10.0	.453 11.5

Refer to Specifications table for 'D' & 'E' dimensions of each model.

Packaging

Standard: Vacuum Tray

Case Size	Capacity Per Tray (Units)	Capacity Per Carton (Units)
16	44	660

Ordering Information

HM55A 16 R30 LF

- HM55A — Model Series
- 16 — Case Size
- R30 — Inductance Code: First 2 digits are significant. Last digit denotes the number of trailing zeros. For values below 10µH, "R" denotes the decimal point.
- LF — Lead-Free

Electrical Characteristics @ 25 °C