Electrical / Environmental

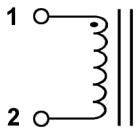
HM56

High Current Low Loss Ferrite Cube Inductors

- Operating Temperature Range -40°C to +125°C
- DCR Tolerance ±5 %
- Operating Frequency Up to 3 MHz

RoHS Compliant

Schematic



Specifications @ 25°C

Part Number	Inductance 100 kHz, 0.1 V @ 0 Adc µH ± 15%	Inductance 100 kHz, 0.1 V @ I_{rated} µH Typ.	I_{rated} (1) (Adc)	Heating (2) Current (Adc)	I_{sat} (3) (Adc)	DCR (mΩ) ±5%	Dim. D (mm)	Dim. E (mm)	Ø Leads Dim. F (mm Typ.)	Fig.
HM56-10100R15LF	0.15	0.14	68	39	100	0.60	5.5	5.0	1.40	1
HM56-11120R19LF	0.19	0.18	75	45	100	0.55	5.0	6.0	1.45	1
HM56-11120R22LF	0.22	0.20	60	45	90	0.55	5.0	6.0	1.45	1
HM56-11120R36LF	0.37	0.36	58	37	77	0.80	5.0	6.0	1.45	1
HM56-11120R4LF	0.40	0.39	50	37	73	0.80	5.0	6.0	1.45	1
HM56-11120R6LF	0.60	0.54	30	37	50	0.80	5.0	6.0	1.45	1
HM56-11121R0LF	1.00	0.90	28	23	37	2.00	5.4	6.6	1.20	1
HM56-11121R3LF	1.30	1.25	25	23	35	2.00	5.4	6.6	1.20	1
HM56-11121R5LF	1.50	1.45	24	17	30	3.65	6.0	7.0	0.90	1
HM56-11122R0LF	2.00	1.90	20	17	27	3.65	5.7	6.9	0.90	1
HM56-11123R0LF	3.00	2.80	18	12	22	7.50	6.0	7.0	0.72	1
HM56-13131R2LF	1.20	1.00	20	34	35	1.30	7.5	7.5	1.45	2
HM56-14138R0LF	8.00	7.00	3.5	16	7	6.30	9.0	8.0	0.90	2

Notes: (1) The rated current, I_{rated}, is the approximate DC current at which inductance will be decreased by 5% typical from its initial (zero DC) value.
(2) The heating current is the DC current which causes the component temperature to increase by approximately 40°C.
(3) I_{sat} is the saturation current at which inductance rolls off approximately 30% from its initial (zero DC) value.

Outline Dimensions (mm)

Figure 1

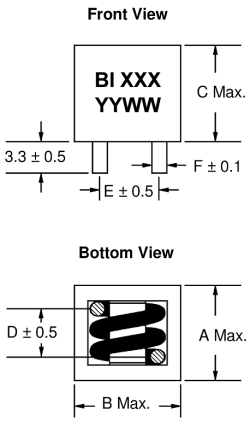
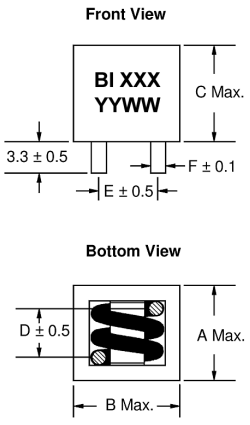


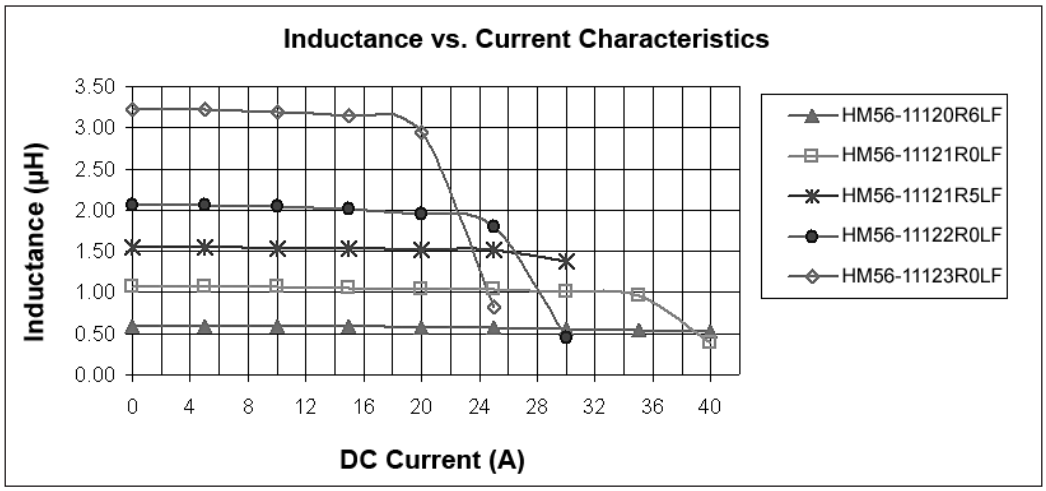
Figure 2

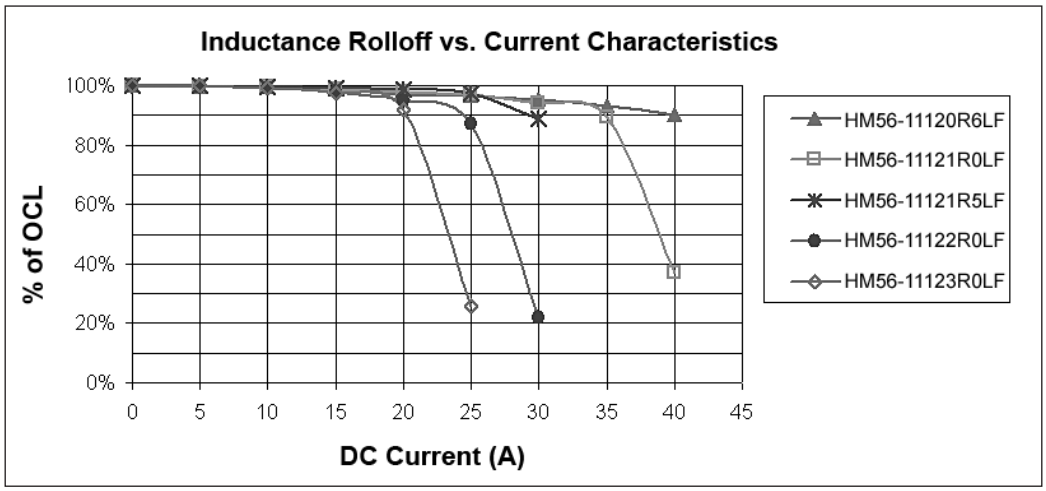


Case Size	Figure	A	B	C
1010	1	10.0	10.0	10.0
1112	1	11.0	11.7	10.0
1313	2	13.0	13.0	9.5
1413	2	14.0	13.0	9.5

Note : Refer to Specifications table for 'D', 'E' & 'F' dimensions of each model.

Electrical Characteristics @ 25°C





Packaging

Standard: Tray

Quantity Per Tray	=	50 Units
Quantity Per Carton	=	650 Units

Ordering Information

HM56 - 1112 0R6 LF

- HM56 — Model Series
- 1112 — Case Size :
  - 11 -- (First 2 digits) Width Dimension
  - 12 -- (Last 2 digits) Length Dimension
- 0R6 — Inductance Code
- LF — Lead-Free