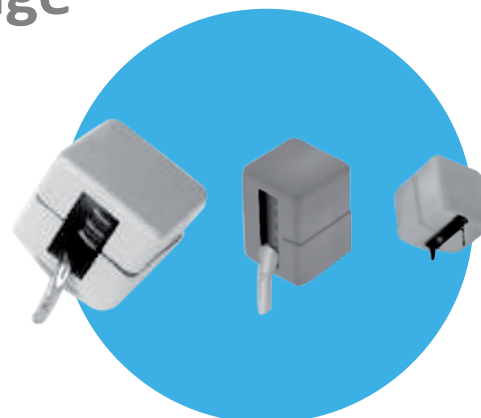


Shielded Cube Compact Package Low Cost Inductors

Model HM55

Features and Benefits

- Operating Temperature Range -40°C to +155°C
- Temperature Rise, Maximum 50°C
- Operating Frequency Up to 400kHz
- RoHS Compliant
- Patented US 6,847,280



Specifications

Part Number	Inductance			$I_{rated}^{(1)}$ (Adc)	$I_{sat}^{(2)}$ (Adc)	DCR ⁽³⁾ mΩ ± 5%	Dim D. (mm ± 0.5)	Dim. E (mm ± 0.1)	Fig.
	100 kHz @ 0 Adc μH ± 10%	100 kHz, 0.1 V @ I_{rated} μH Min.	μH Typ.						
HM55-12R40LF	0.40	0.32	0.35	20	29	1.00	8.76	1.30	2
HM55-14R40LF	0.40	0.32	0.35	15	38	1.75	8.40	1.00	2
HM55-21R43LF	0.43	0.36	0.40	18	27	0.77	4.10	1.30	1
HM55-21R95LF	0.95	0.76	0.84	22.5	33	1.28	6.90	1.30	1
HM55-211R3LF	1.38	1.10	1.25	15	22	2.26	6.60	1.05	1
HM55-22R79LF	0.79	0.56	0.63	27	39	1.20	12.5	1.45	2
HM55-24R28LF	0.28	0.21	0.25	30	85	0.72	12.7	1.30	2
HM55-26R50LF	0.5	0.36	0.40	40	50	0.90	12.7	1.50	2
HM55-311R4LF	1.40	1.08	1.20	35	50	0.98	6.60	1.65	1
HM55-313R0LF	3.00	2.43	2.70	21	30	2.60	9.45	1.30	1
HM55-315R6LF	5.6	4.86	5.40	9	14	7.30	7.11	0.91	1
HM55-321R0LF	1.0	0.72	0.80	40	56	1.25	15.24	1.50	2

Notes: (1) Rated current, I_{rated} , is the approximate DC current at which inductance will be decreased by 20% from its initial (zero DC) value or the current at which $\Delta T = 50^\circ C$, whichever is lower.
(2) I_{sat} is the saturation current at which inductance rolls off approximately 30% from its initial value.
(3) DC resistance is measured at 25°C.

Outline Dimensions (Inch/mm)

Figure 1		Figure 2		Case Size	Fig.	A	B	C
				12	2	0.295 7.50	0.295 7.50	0.433 11.0
				14	2	0.295 7.50	0.295 7.50	0.295 7.50
				21	1	0.413 10.5	0.433 11.0	0.413 10.5
				22	2	0.413 10.5	0.413 10.5	0.413 10.5
				24	2	0.413 10.5	0.413 10.5	0.295 7.50
				26	2	0.413 10.5	0.413 10.5	0.355 9.00
				31	1	0.532 13.5	0.543 13.8	0.532 13.5
				32	2	0.532 13.5	0.532 13.5	0.492 12.5

Notes: (A) Refer to Specifications table for 'D' & 'E' dimensions of each model.
(B) For case size 12 & 14, only BI logo & datecode will be printed.

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability.
All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

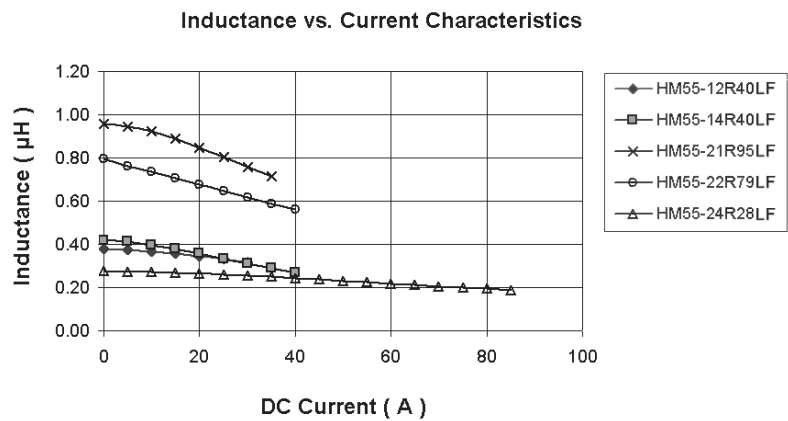
Model HM55

Packaging

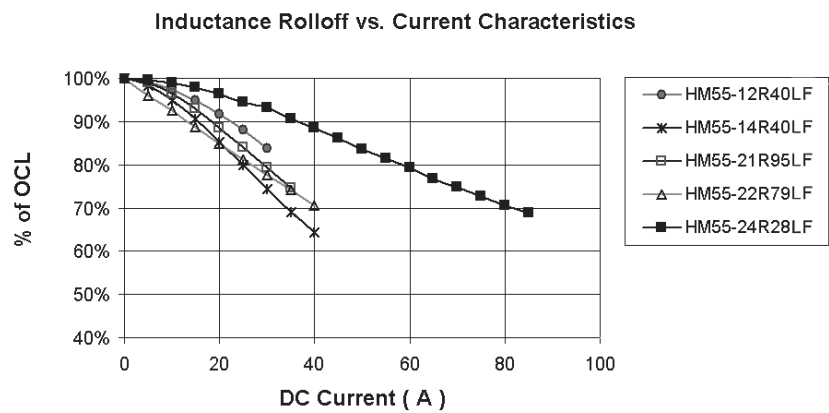
Standard	Vacuum Tray		
	Case Size	Capacity Per Tray (Units)	Capacity Per Carton (Units)
	12, 14, 21	40	560
	22	44	660
	24	50	600
	26	45	630
	31, 32	44	572

Electrical Characteristics @ 25°C

(A) Case size 12, 14, 21, 22 & 24



(A) Case size 12, 14, 21, 22 & 24



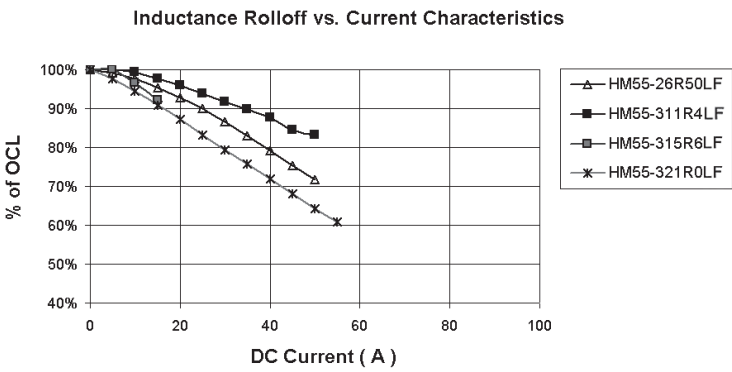
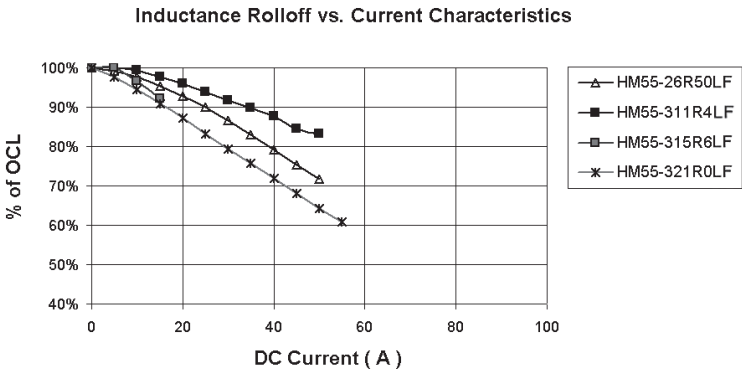
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Model HM55

Electrical Characteristics @ 25°C

(B) Case size 26, 31 & 32



Ordering Information

Model Series HM55 - 21 1R3 LF Lead-Free

Case Size: 12 = Figure 2 24 = Figure 2
14 = Figure 2 26 = Figure 2
21 = Figure 1 31 = Figure 1
22 = Figure 2 32 = Figure 2

Inductance Code:
First 2 digits are significant. Last digit denotes the number of trailing zeros. For values below 10µH, "R" denotes the decimal point.

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