

Shielded Drum Compact Package Low Cost Inductors

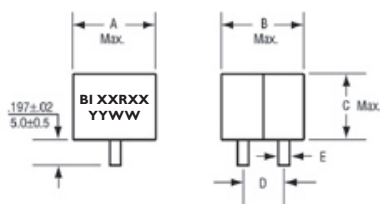
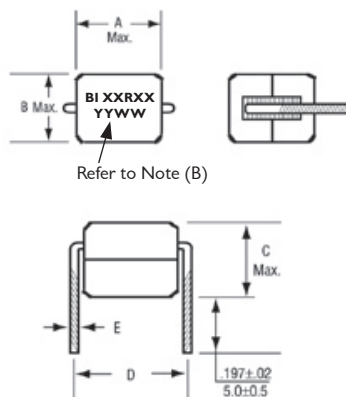
- Operating Temperature Range -40°C to +155°C
- Ambient Temperature, Maximum 100°C
- Temperature Rise, Maximum 50°C
- Insulation System Class F, 155°C

Specifications

Part Number	Inductance			I _{rated} ⁽¹⁾ (A dc)	I _{sat} ⁽²⁾ (A dc)	DCR ⁽³⁾ mΩ ± 5%	Dim D. (mm ± 0.5)	Dim. E (mm ± 0.1)	Fig.
	100 kHz @ 0 A dc μH ± 10%	100 kHz, 0.1 V @ I _{rated} μH Min.	μH Typ.						
HM55-12R40	0.40	0.32	0.35	20	29	1.00	8.76	1.30	2
HM55-14R40	0.40	0.32	0.35	15	38	1.75	8.40	1.00	2
HM55-21R43	0.43	0.36	0.40	18	27	0.77	4.10	1.30	1
HM55-21R95	0.95	0.76	0.84	22.5	33	1.28	6.90	1.30	1
HM55-211R3	1.38	1.10	1.25	15	22	2.26	6.60	1.05	1
HM55-22R79	0.79	0.56	0.63	27	39	1.20	12.5	1.45	2
HM55-24R28	0.28	0.21	0.25	30	85	0.72	12.7	1.30	2
HM55-26R50	0.50	0.36	0.40	40	50	0.90	12.7	1.50	2
HM55-311R4	1.40	1.08	1.20	35	50	0.98	6.60	1.65	1
HM55-313R0	3.00	2.43	2.70	21	30	2.60	9.45	1.30	1
HM55-315R6	5.60	4.86	5.40	9	14	7.30	7.11	0.91	1
HM55-321R0	1.0	0.72	0.80	40	56	1.25	15.24	1.50	2

- Notes: (1) Rate 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 ΔT = 50°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


- 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.

Case Size	Fig.	A	B	C
12	2	.295	.295	.433
		7.50	7.50	11.0
14	2	.295	.295	.295
		7.50	7.50	7.50
21	1	.413	.433	.413
		10.5	11.0	10.5
22	2	.413	.413	.413
		10.5	10.5	10.5
24	2	.413	.413	.295
		10.5	10.5	7.50
26	2	.413	.413	.355
		10.5	10.5	9.00
31	1	.532	.543	.532
		13.5	13.8	13.5
32	2	.532	.532	.492
		13.5	13.5	12.5

Packaging

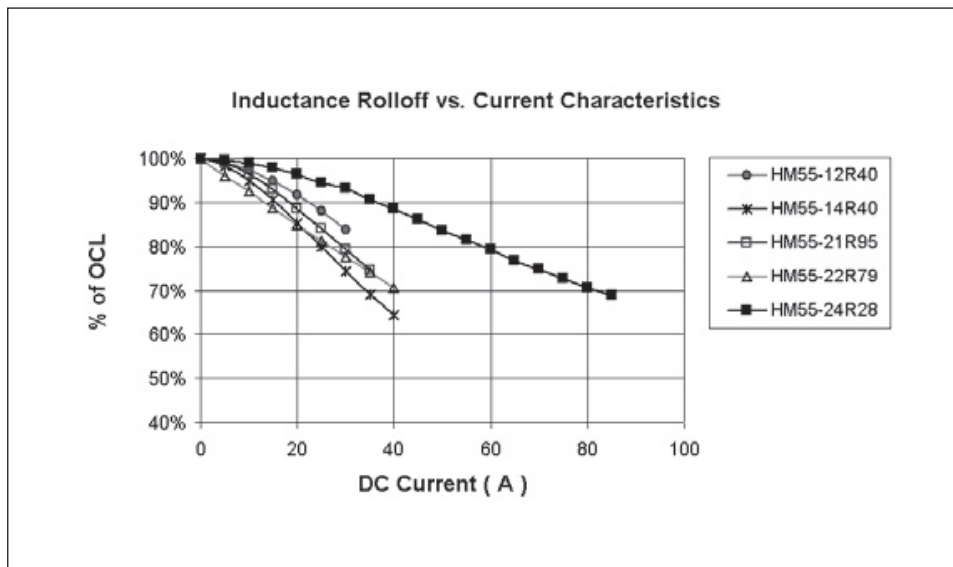
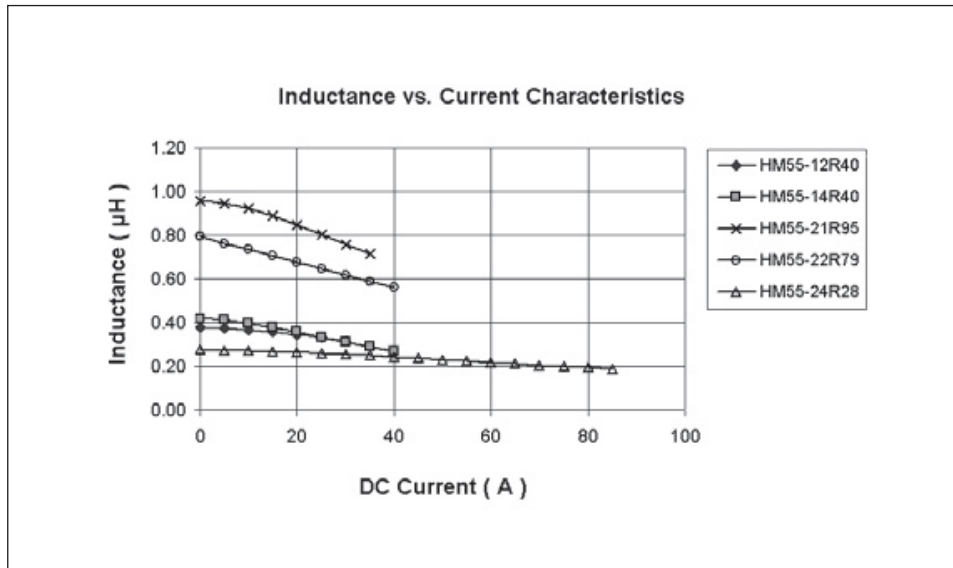
Standard: Vacuum Tray

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

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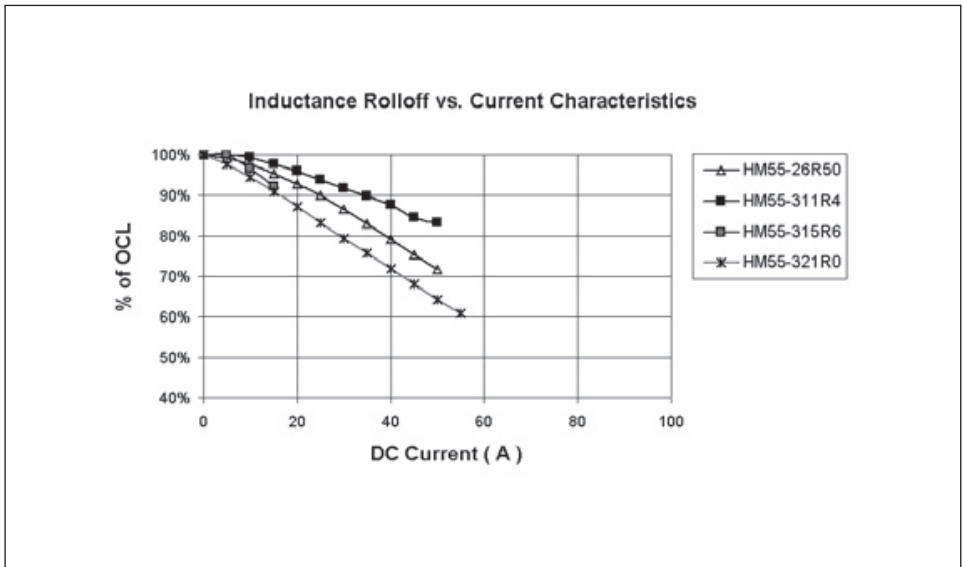
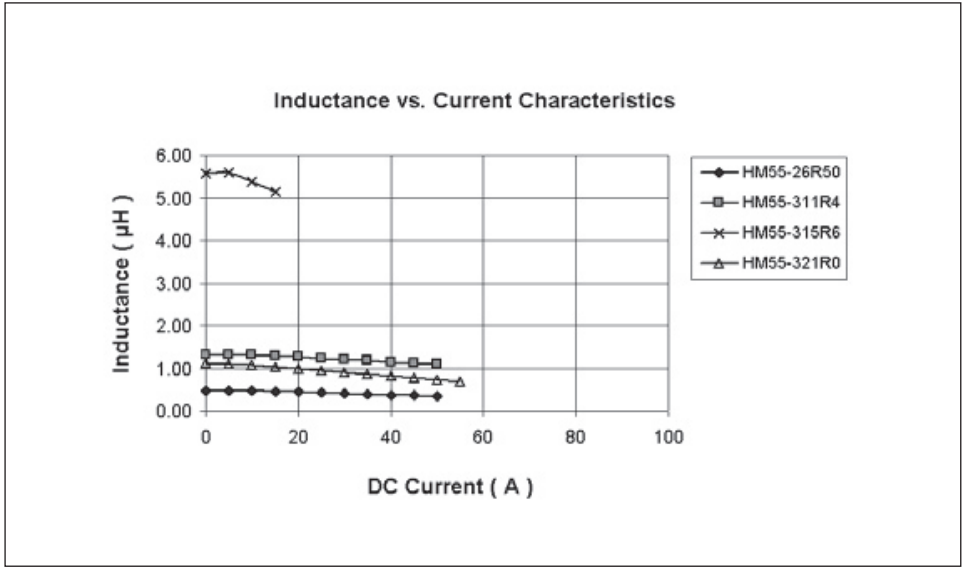
Electrical Characteristics @ 25 °C

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



Electrical Characteristics @ 25 °C (Cont'd)

(B) Case size 26, 31 & 32



Ordering Information

HM55 **21** **1R3** **LF**

Model Series ————
 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.

Lead-Free Option:
 LF= Lead-Free
 (No code used for non lead-free part)

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