

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			$I_{rated}^{(1)}$ (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.						
HM55-12R40	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 $\Delta T = 50^\circ\text{C}$, 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

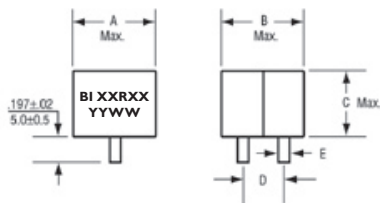
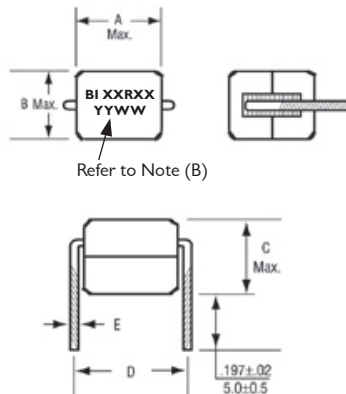


Figure 2



- 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 7.50	.295 7.50	.433 11.0
14	2	.295 7.50	.295 7.50	.295 7.50
21	1	.413 10.5	.433 11.0	.413 10.5
22	2	.413 10.5	.413 10.5	.413 10.5
24	2	.413 10.5	.413 10.5	.295 7.50
26	2	.413 10.5	.413 10.5	.355 9.00
31	1	.532 13.5	.543 13.8	.532 13.5
32	2	.532 13.5	.532 13.5	.492 12.5

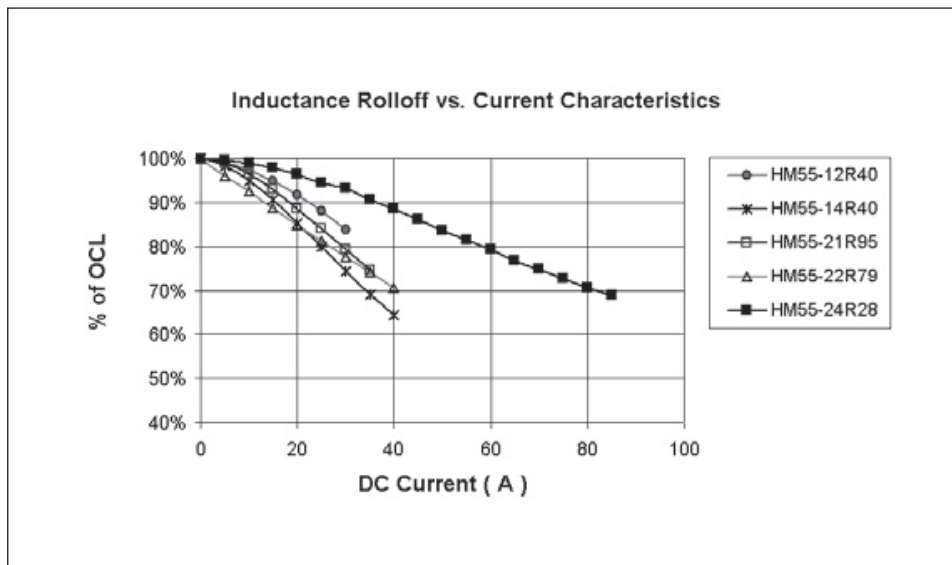
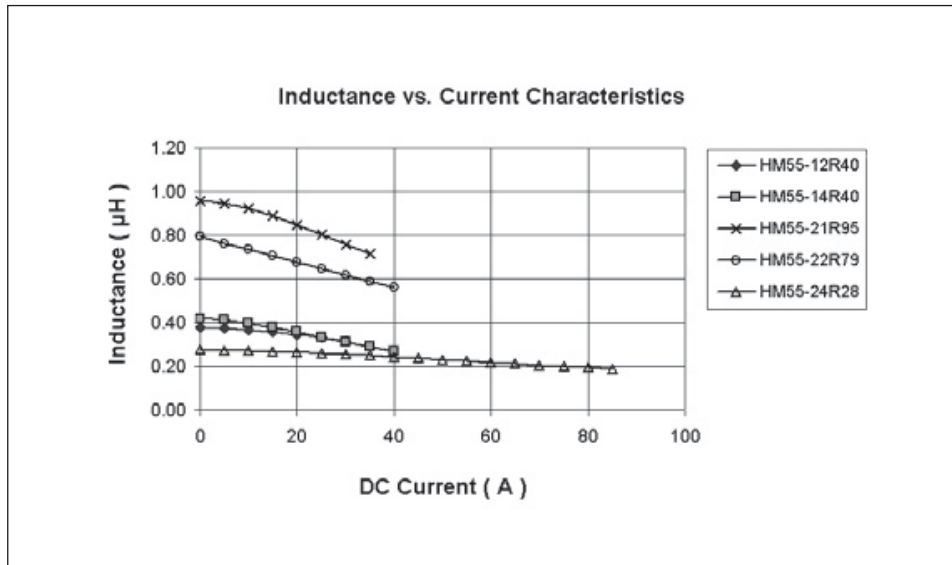
Packaging

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

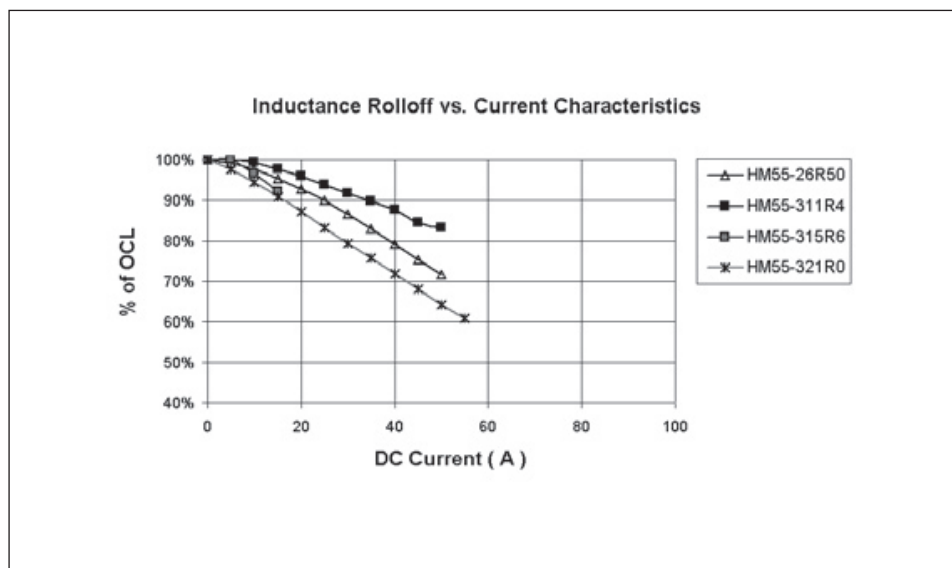
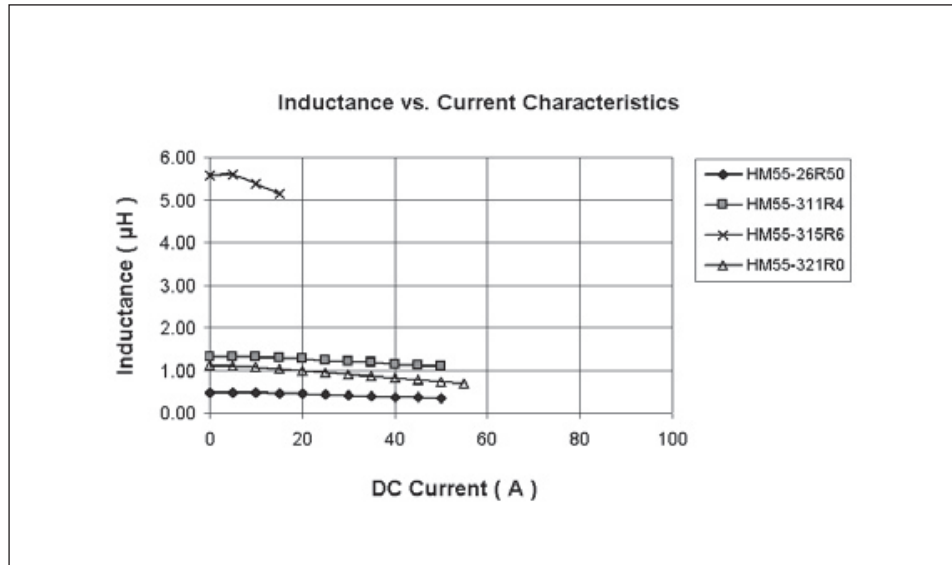
Electrical Characteristics @ 25 °C

(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:	Inductance Code:	Lead-Free Option:
	12 = Figure 2	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 (No code used for non lead-free part)
	14 = Figure 2		
	21 = Figure 1		
	22 = Figure 2		
	24 = Figure 2		
	26 = Figure 2		
	31 = Figure 1		
	32 = Figure 2		