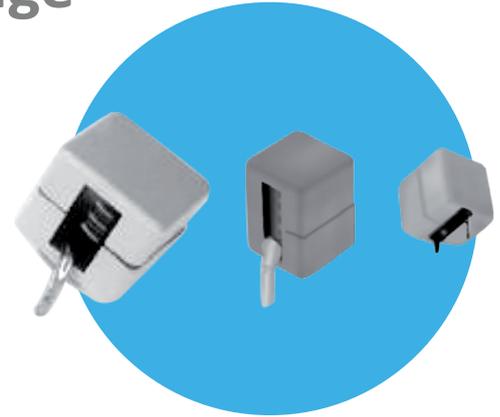


Shielded Cube Compact Package Low Cost Inductors

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⁾ (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.						
HM55-12R40LF	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 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	Case Size	Fig.	A	B	C
<p>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.</p>	<p>Refer to Note (B)</p>	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

General Note

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 All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

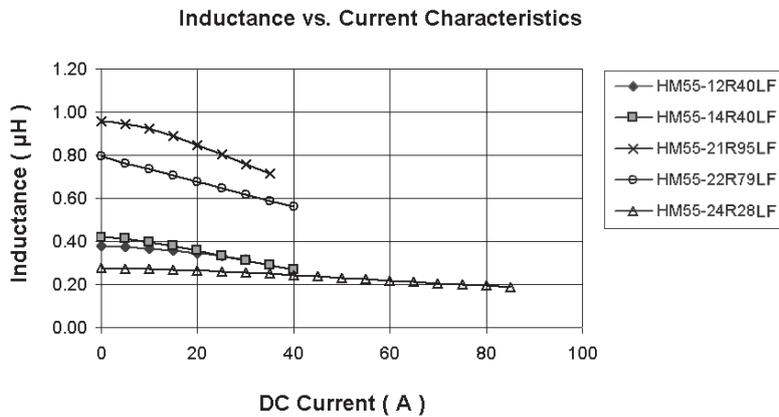
Model HM55

Packaging

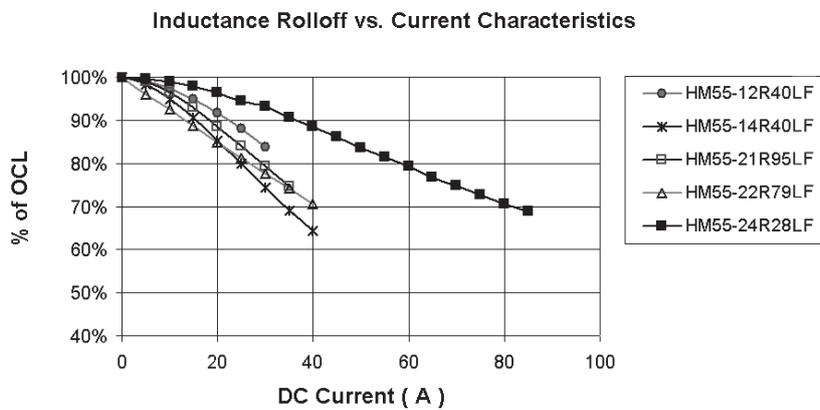
Standard	Vacuum Tray		
	Case Size	Capacity Per Tray (Units)	Capacity Per Carton (Units)
	12, 14, 21	40	560
	22	44	660
	24	50	600
	26	45	630
	31, 32	44	572

Electrical Characteristics @ 25°C

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



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



General Note

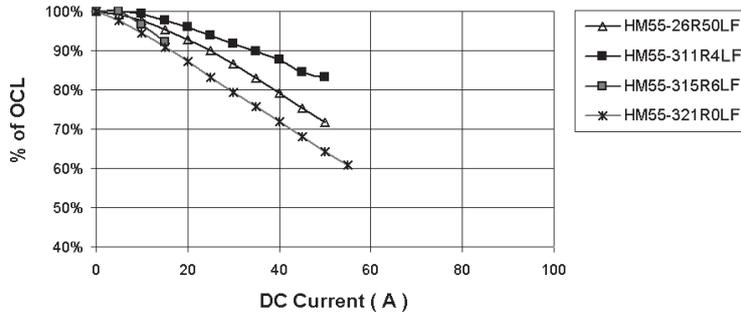
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Model HM55

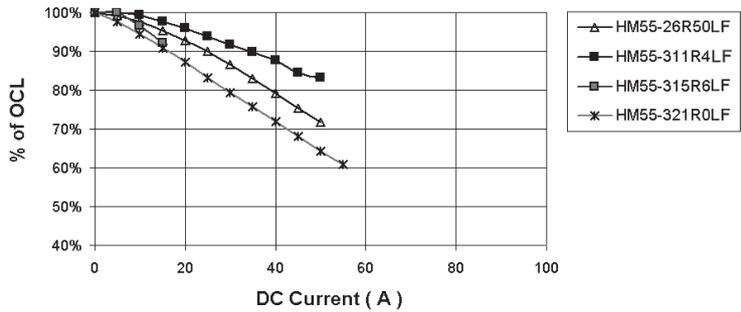
Electrical Characteristics @ 25°C

(B) Case size 26, 31 & 32

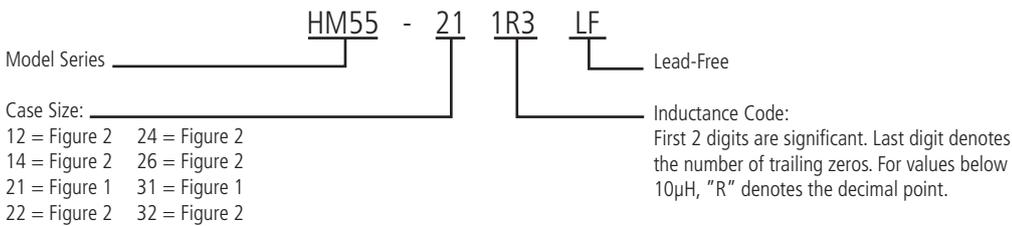
Inductance Rolloff vs. Current Characteristics



Inductance Rolloff vs. Current Characteristics



Ordering Information



General Note

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