

## Axially Leaded Miniature Power Inductors

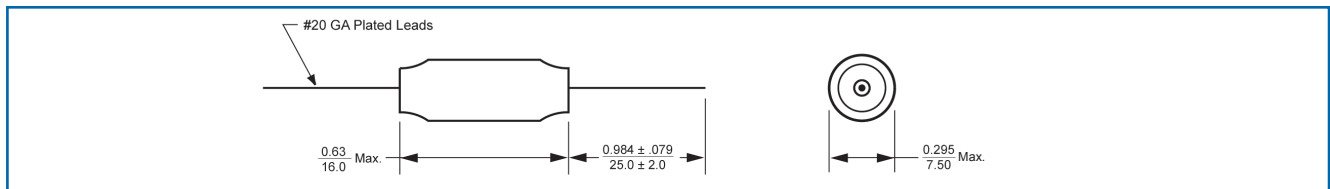
### Model HM50

#### Features and Benefits

- Inductance Range 3.9 $\mu$ H to 18,000 $\mu$ H
- Standard Tolerance  $\pm 10\%$
- Operating Temperature Range  $-55^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$
- RoHS Compliant



#### Outline Dimensions (Inch / mm)



#### Specification @ 25°C

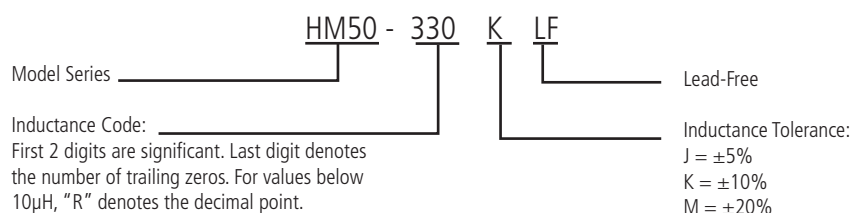
Part Number	Inductance Nominal <sup>(1)</sup> $\mu\text{H} \pm 10\%$	DC Resistance $\Omega$ Max.	Rated IDC <sup>(2)</sup> Amps	INCR IDC <sup>(3)</sup> Amps	Part Number	Inductance Nominal <sup>(1)</sup> $\mu\text{H} \pm 10\%$	DC Resistance $\Omega$ Max.	Rated IDC <sup>(2)</sup> Amps	INCR IDC <sup>(3)</sup> Amps
HM50-3R9KLF	3.9	0.019	3.60	7.30	HM50-331KLF	330	0.665	0.61	0.70
HM50-4R7KLF	4.7	0.022	3.40	6.30	HM50-391KLF	390	0.772	0.57	0.64
HM50-5R6KLF	5.6	0.024	3.20	5.60	HM50-471KLF	470	1.15	0.47	0.59
HM50-6R8KLF	6.8	0.026	3.10	5.30	HM50-561KLF	560	1.27	0.44	0.54
HM50-8R2KLF	8.2	0.028	3.00	4.50	HM50-681KLF	680	1.61	0.40	0.49
HM50-100KLF	10	0.033	2.80	4.10	HM50-821KLF	820	1.96	0.36	0.44
HM50-120KLF	12	0.037	2.60	3.60	HM50-102KLF	1000	2.3	0.33	0.40
HM50-150KLF	15	0.04	2.50	3.30	HM50-122KLF	1200	2.65	0.30	0.35
HM50-180KLF	18	0.044	2.40	3.00	HM50-152KLF	1500	3.45	0.27	0.33
HM50-220KLF	22	0.05	2.23	2.70	HM50-182KLF	1800	4.03	0.25	0.29
HM50-270KLF	27	0.056	2.10	2.50	HM50-222KLF	2200	4.48	0.23	0.27
HM50-330KLF	33	0.076	1.81	2.20	HM50-272KLF	2700	5.4	0.21	0.24
HM50-390KLF	39	0.094	1.63	2.00	HM50-332KLF	3300	6.56	0.20	0.22
HM50-470KLF	47	0.109	1.51	1.80	HM50-392KLF	3900	8.63	0.17	0.20
HM50-560KLF	56	0.14	1.33	1.70	HM50-472KLF	4700	9.66	0.16	0.18
HM50-680KLF	68	0.131	1.31	1.50	HM50-562KLF	5600	13.9	0.13	0.166
HM50-820KLF	82	0.152	1.30	1.40	HM50-682KLF	6800	16.3	0.12	0.151
HM50-101KLF	100	0.208	1.10	1.20	HM50-822KLF	8200	20.8	0.11	0.136
HM50-121KLF	120	0.283	0.94	1.10	HM50-103KLF	10000	26.4	0.10	0.125
HM50-151KLF	150	0.34	0.86	1.00	HM50-123KLF	12000	29.9	0.09	0.114
HM50-181KLF	180	0.362	0.83	0.95	HM50-153KLF	15000	42.5	0.08	0.098
HM50-221KLF	220	0.43	0.76	0.86	HM50-183KLF	18000	48.3	0.07	0.091
HM50-271KLF	270	0.557	0.67	0.77					

Notes: (1) Inductance is measured at 1kHz without DC current.  
 (2) The rated DC current is based on an approximate 20°C temperature rise.  
 (3) The incremental current (INCR I) is the approximate current at which the inductance will be decreased by 5% from its initial (zero DC) value due to saturation.

#### Packaging

Boxes
Standard
Capacity = 2700 Units

#### Ordering Information



#### General Note

TT Electronics reserves the right to make changes in product specification without notice or liability.  
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