

Axially Leaded Miniature Power Inductors

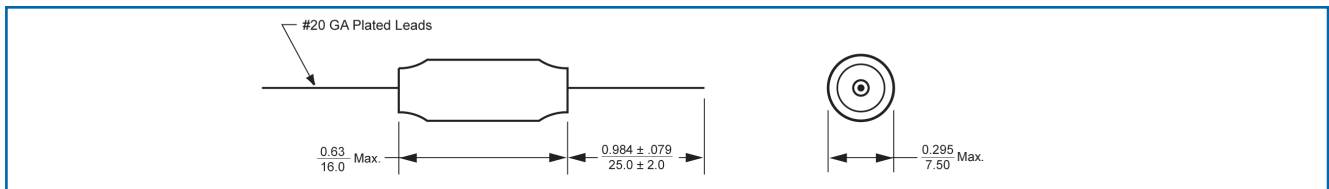
Model HM50

Features and Benefits

- Inductance Range 3.9 μ H to 18,000 μ H
- Standard Tolerance $\pm 10\%$
- Operating Temperature Range -55°C to +105°C
- RoHS Compliant



Outline Dimensions (Inch / mm)



Specification @ 25°C

Part Number	Inductance Nominal ⁽¹⁾ μ H $\pm 10\%$	DC Resistance Ω Max.	Rated IDC ⁽²⁾ Amps	INCR IDC ⁽³⁾ Amps	Part Number	Inductance Nominal ⁽¹⁾ μ H $\pm 10\%$	DC Resistance Ω Max.	Rated IDC ⁽²⁾ Amps	INCR IDC ⁽³⁾ 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

Model Series	HM50 - 330 K LF	Lead-Free
Inductance Code:		Inductance Tolerance:
First 2 digits are significant. Last digit denotes the number of trailing zeros. For values below 10 μ H, "R" denotes the decimal point.		J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$

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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TT Electronics:

[HM50-151KLF](#) [HM50-822KLF](#) [HM50-120KLF](#) [HM50-180KLF](#) [HM50-121KLF](#) [HM50-470KLF](#) [HM50-391KLF](#) [HM50-330KLF](#) [HM50-182KLF](#) [HM50-122KLF](#) [HM50-392KLF](#) [HM50-152KLF](#) [HM50-3R9KLF](#) [HM50-272KLF](#) [HM50-390KLF](#) [HM50-270KLF](#) [HM50-561KLF](#) [HM50-682KLF](#) [HM50-680KLF](#) [HM50-8R2KLF](#) [HM50-820KLF](#) [HM50-5R6KLF](#) [HM50-181KLF](#) [HM50-123KLF](#) [HM50-821KLF](#) [HM50-6R8KLF](#) [HM50-560KLF](#) [HM50-271KLF](#) [HM50-562KLF](#) [HM50-681KLF](#) [HM50-4R7KLF](#) [HM50-183KLF](#)