Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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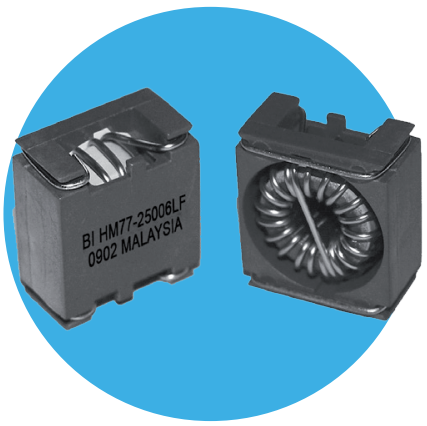
Magnetics

Low Profile Surface Mount Inductors

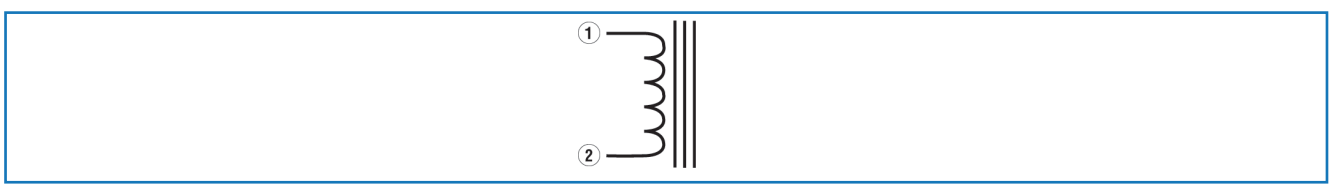
Model HM77



Features and Benefits

- Operating Temperature Range -40°C to +130°C
- Operating Frequency Up to 400kHz
- RoHS Compliant

Schematic



Specifications

Part Number	Operating Values			Control Values[3]			
	L_{DC} µH [1]	I_{DC} Amps	ET_{op} V-µS [2]	Case Size	L w/o DC L_o µH ± 20%	DC Resistance mΩ, Nom.	DC Resistance mΩ, Max.
HM77- 10001LF	1.01	3.40	0.532	1	1.1	11.00	12.5
HM77- 20001LF	6.20	1.40	1.33	1	7.00	60.30	70
HM77- 30001LF	17.6	1.00	2.40	1	22.7	109.00	125
HM77- 40002LF	3.80	4.80	1.76	2	5.20	17.0	19.1
HM77- 50002LF	9.40	2.80	2.70	2	12.3	37.80	43.4
HM77- 60002LF	29.7	1.40	4.6	2	35.3	141.00	166
HM77- 70002LF	114	0.94	10	2	167	330.00	380
HM77- 80003LF	2.50	8.00	1.77	3	3.80	7.20	8.3
HM77- 90003LF	5.10	5.40	2.51	3	7.50	14.30	17.7
HM77- 10003LF	16.2	2.70	4.29	3	21.9	54.70	63
HM77- 11003LF	58.1	1.30	7.83	3	73	233.00	290
HM77- 12003LF	192	0.90	15.7	3	292	472.00	560
HM77- 13003LF	383	0.72	23.5	3	672	750.00	862
HM77- 14004LF	0.91	13.3	1.035	4	1.25	4.56	5.70
HM77- 15004LF	1.32	11.5	1.33	4	2.10	4.56	5.70
HM77- 16004LF	4.90	7.80	3.04	4	7.90	10.50	12.4
HM77- 17004LF	9.00	5.50	4.06	4	14	19.30	22.3
HM77- 18004LF	29.1	2.70	6.90	4	40.5	75.8	85
HM77- 19004LF	645	0.74	36.5	4	1134	1040	1250
HM77- 30004LF	33	3.00	9.50	4	48	48.5	59
HM77- 20005LF	1.75	10.9	1.83	5	2.80	5.68	6.90
HM77- 21005LF	2.50	11.4	2.23	5	4.20	6.19	7.50
HM77- 22006LF	2.03	13	3.30	6	2.70	5.60	6.80
HM77- 23006LF	3.50	12.4	3.13	6	6.50	7.54	8.7
HM77- 24006LF	4.70	10.4	3.58	6	8.40	8.30	10.0
HM77- 25006LF	9.30	7.20	4.92	6	16	20.05	23.0
HM77- 26006LF	16.1	5.10	6.27	6	25.9	30.30	32
HM77- 27006LF	50	2.60	10.5	6	72.90	115	130
HM77- 28006LF	1070	0.71	54.4	6	1950	1480	1700
HM77- 29006LF	68	3.00	9.50	6	122	85	102
HM77- 31007ALF	2.5	11.4	2.23	7	4.20	5.20	6.20
HM77- 32007ALF	1.68	13.9	1.83	7	2.80	3.60	4.0

Notes: (1) Inductance values are rated at -40°C to +130°C operating temperature range with rated DC current flowing and the operating ETop across the inductor.
(2) ETop is rated at 500 kHz.
(3) The control values of inductance are measured at the operating flux density equal or less than 10 gauss and without DC current.

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.

Bi technologies

www.ttelectronicsmagnetics.com

Model HM77

Outline Dimensions (Inch/mm) / Packaging

Figure 1

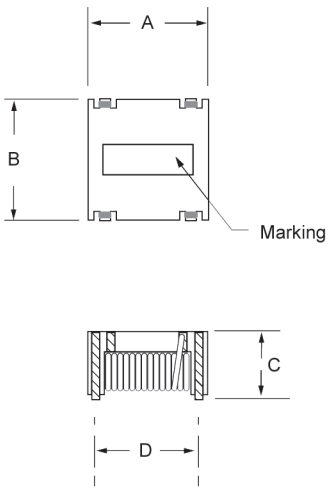
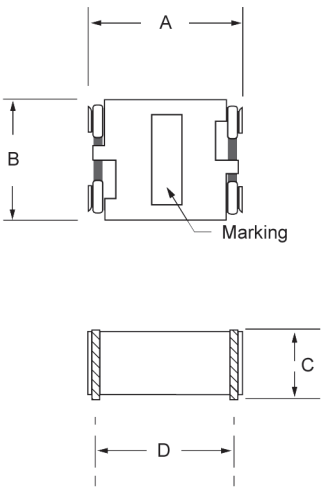
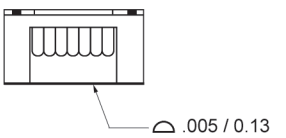


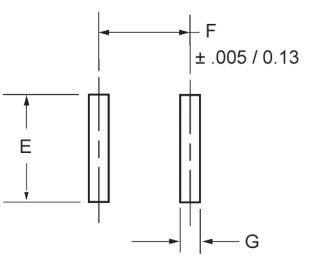
Figure 2



Coplanarity



Recommended Solder Pad Layout



Case Size	A	B	C	D	E	F	G	Reel Capacity	Figure
1	.340 8.64	.340 8.64	.250 6.35	.260 6.60	.330 8.38	.270 6.86	.060 1.52	500	1
2	.447 11.35	.447 11.35	.350 8.89	.350 8.89	.425 10.80	.360 9.14	.060 1.52	350	1
3	.571 14.50	.571 14.50	.350 8.89	.450 11.43	.550 13.97	.460 11.68	.100 2.54	350	2
4	.625 15.88	.600 15.24	.360 9.14	.500 12.70	.580 14.73	.510 12.95	.100 2.54	200	2
5	.725 18.40	.585 14.90	.360 9.14	.610 15.50	.580 14.73	.610 15.50	.100 2.54	200	2
6	.805 20.40	.710 18.03	.445 11.30	.680 17.27	.690 17.53	.690 17.53	.100 2.54	150	2
7	.669 17.00	.669 17.00	.400 10.16	.560 14.22	.665 16.89	.560 14.22	.100 2.54	200	2

Notes: (1) For case size 1 to 6, the reel capacity is for part number ending with suffix 'LFTR'.
(2) For case size 7, the reel capacity is for part number ending with suffix 'ALFTR'

Ordering Information