



Low Profile Surface Mount Inductors

- Operating Temperature Range -40°C to +130°C
- Ambient Temperature, Maximum 80°C
- Insulation System Class B, 130°C
- Temperature Rise, Maximum 50°C

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 - 10001	1.01	3.40	0.532	1	1.10	11.00	12.5
HM77 - 20001	6.20	1.40	1.33	1	7.00	60.30	70
HM77 - 30001	17.6	1.00	2.40	1	22.7	109.00	125
HM77 - 40002	3.80	4.80	1.76	2	5.20	17.0	19.1
HM77 - 50002	9.40	2.80	2.70	2	12.3	37.80	43.4
HM77 - 60002	29.7	1.40	4.60	2	35.3	141.00	166
HM77 - 70002	114	0.94	10	2	167	330.00	380
HM77 - 80003	2.50	8.00	1.77	3	3.80	7.20	8.30
HM77 - 90003	5.10	5.40	2.51	3	7.50	14.30	17.7
HM77 - 10003	16.2	2.70	4.29	3	21.9	54.70	63
HM77 - 11003	58.1	1.30	7.83	3	73	233.00	290
HM77 - 12003	192	0.90	15.7	3	292	472.00	560
HM77 - 13003	383	0.72	23.5	3	672	750.00	862
HM77 - 14004	0.91	13.3	1.035	4	1.25	4.56	5.70
HM77 - 15004	1.32	11.5	1.33	4	2.10	4.56	5.70
HM77 - 16004	4.90	7.80	3.04	4	7.90	10.50	12.4
HM77 - 17004	9.00	5.50	4.06	4	14	19.30	22.3
HM77 - 18004	29.1	2.70	6.90	4	40.5	75.80	85
HM77 - 19004	645	0.74	36.5	4	1134	1040	1250
HM77 - 30004	33	3.0	9.50	4	48	48.5	59
HM77 - 20005	1.75	10.9	1.83	5	2.80	5.68	6.90
HM77 - 21005	2.50	11.4	2.23	5	4.20	6.19	7.50
HM77 - 22006	2.03	13	3.30	6	2.70	5.60	6.80
HM77 - 23006	3.50	12.4	3.13	6	6.50	7.54	8.7
HM77 - 24006	4.70	10.4	3.58	6	8.40	8.30	10.0
HM77 - 25006	9.30	7.20	4.92	6	16	20.05	23.0
HM77 - 26006	16.1	5.10	6.27	6	25.9	30.3	32
HM77 - 27006	50	2.60	10.5	6	72.9	115	130
HM77 - 28006	1070	0.710	54.4	6	1950	1480	1700
HM77 - 29006	68	3.00	9.50	6	122	85	102
HM77 - 31007	2.5	11.4	2.23	7	4.20	5.20	6.20
HM77 - 32007	1.68	13.9	1.83	7	2.80	3.60	4.0
HM77 - 33010	5.2	15.4	5.21	10	10.5	6.20	7.40
HM77 - 34010	77	2.7	52.8 ⁽⁴⁾	10	84.6	90	110
HM77 - 35010	38	3.0	29.7 ⁽⁴⁾	10	49	50	70
HM77 - 36010	114	2.22	62.7 ⁽⁴⁾	10	121	100	120
HM77 - 37010	191	1.50	72.6 ⁽⁵⁾	10	275	250	290
HM77 - 38010	115	1.81	75.9 ⁽⁵⁾	10	159	190	220
HM77 - 39010	38	3.00	42.9 ⁽⁵⁾	10	52	80	100

Notes: (1) Inductance values are rated at -40°C to +130°C operating temperature range with rated DC current flowing and the operating ET_{op} across the inductor.

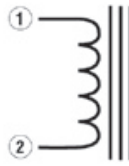
(2) ET_{op} is rated at 500 kHz except where designated otherwise.

(3) The control values of inductance are measured at the operating flux density equal or less than 10 gauss and without DC current.

(4) ET_{op} is rated at 250 kHz.

(5) ET_{op} is rated at 150 kHz.

Schematic



Outline Dimensions (Inch/mm) / Packaging

Figure 1

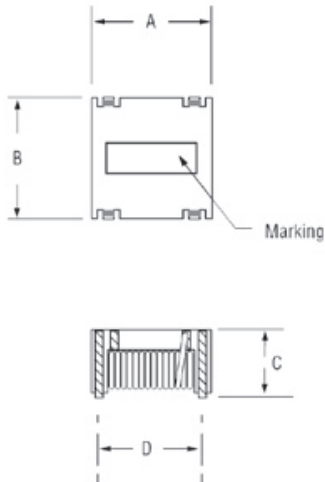


Figure 2

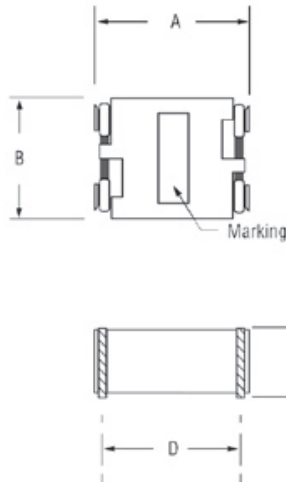
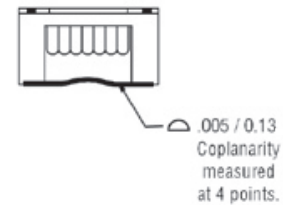
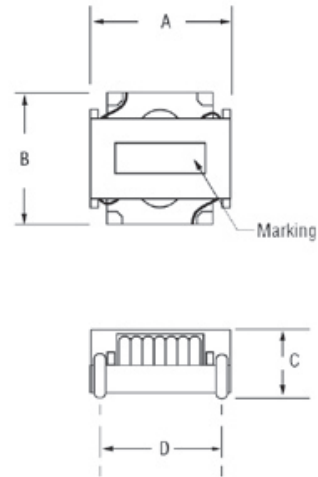
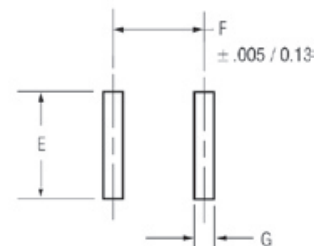


Figure 3



Case Size	A	B	C	D	E	F	G	Tube Capacity	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	60	500	1
2	.447 11.35	.447 11.35	.350 8.89	.350 8.89	.425 10.80	.360 9.14	.060 1.52	50	350	1
3	.571 14.50	.571 14.50	.350 8.89	.450 11.43	.550 13.97	.460 11.68	.100 2.54	35	350	2
4	.625 15.88	.600 15.24	.360 9.14	.500 12.70	.580 14.73	.510 12.95	.100 2.54	37	200	2
5	.725 18.40	.585 14.90	.360 9.14	.610 15.50	.580 14.73	.610 15.50	.100 2.54	37	200	2
6	.805 20.40	.710 18.03	.445 11.30	.680 17.27	.690 17.53	.690 17.53	.100 2.54	30	150	2
7	.669 17.00	.669 17.00	.400 10.16	.560 14.22	.665 16.89	.560 14.22	.100 2.54	35	N/A	2
10	.945 24.00	.965 24.50	.394 10.00	.820 20.83	.950 24.13	.830 21.08	.110 2.80	23	N/A	3

Recommended Solder Pad Layout



Ordering Information

Model Series **HM77** Model Description **1000** Case Size **1** Lead-Free Option **LF** Optional Package **TR**

TR = Tape & 13" Reel
No code used for tubes (Standard)
(No code used for non lead-free part)