

Electrical / Environmental

- Operating Temperature Range -40°C to +125°C
- Ambient Temperature, Maximum 85°C
- Insulation System Class B, 130°C
- Temperature Rise, Maximum 40°C
- Operating Frequency Up to 3MHz

HM75

High Current Surface Mount Inductors

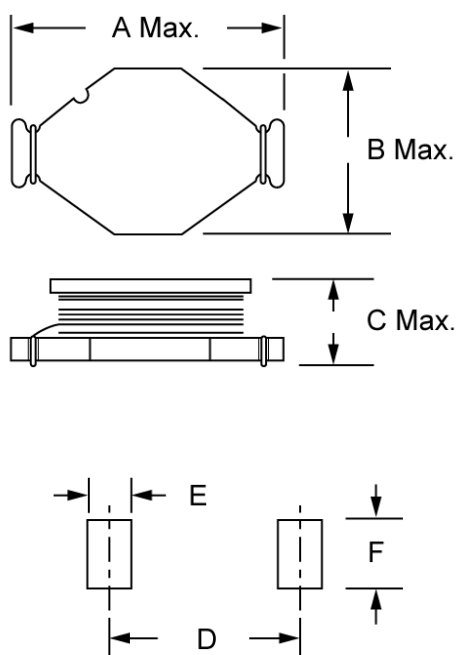


Specifications @ 25°C

– Rated Inductance –						– Rated Inductance –					
Part Number	L w/o DC		DCR Max.	Rated Current $I_{RMS}^{(2)}$	$I_{SAT}^{(3)}$	Part Number	L w/o DC		DCR Max.	Rated Current $I_{RMS}^{(2)}$	$I_{SAT}^{(3)}$
	L_{DC}	$L_0^{(1)}$					L_{DC}	$L_0^{(1)}$			
	μH Typ.	$\mu H \pm 20\%$	m Ω	Amps	Amps		μH Typ.	$\mu H \pm 20\%$	m Ω	Amps	Amps
HM75-10R33LF	0.33	0.33	4.0	7.0	10.0	HM75-30220LF	22	23.9	49.1	3.1	3.7
HM75-10R47LF	0.47	0.47	7.9	6.0	7.7	HM75-30330LF	33	33.9	69	2.4	3.0
HM75-101R0LF	1.0	1.0	12.5	4.4	5.3	HM75-30470LF	47	51	108.2	1.9	2.4
HM75-101R5LF	1.5	1.6	14.5	4.2	4.5	HM75-30680LF	68	69.5	156	1.6	2.0
HM75-102R2LF	2.2	2.26	24.1	3.1	3.5	HM75-30101LF	100	101.4	205.5	1.4	1.8
HM75-103R3LF	3.3	3.45	31.8	2.9	3.0	HM75-40R47LF	0.47	0.47	1.7	19.2	51.7
HM75-104R7LF	4.7	4.85	54.7	2.2	2.6	HM75-401R0LF	1.0	0.92	2.5	17.3	37.3
HM75-106R8LF	6.8	6.9	57.1	1.7	2.2	HM75-401R3LF	1.3	1.3	3.5	15	25
HM75-10100LF	10	10.4	81.3	1.5	1.9	HM75-402R2LF	2.2	2.2	4.7	12	20
HM75-10150LF	15	15.3	124	1.2	1.5	HM75-403R3LF	3.3	3.3	8.4	10	17
HM75-10220LF	22	23	183	1.0	1.2	HM75-403R9LF	3.9	3.9	7.5	9	15
HM75-10330LF	33	33.6	265	0.82	0.99	HM75-404R7LF	4.7	5.3	9.5	8.5	15
HM75-10470LF	47	48.5	334	0.72	0.87	HM75-406R0LF	6.0	6.0	13.7	7.5	12
HM75-20R33LF	0.33	0.33	2.0	16	20	HM75-407R8LF	7.8	7.8	15.4	7.5	11
HM75-20R68LF	0.68	0.80	3.5	12	13	HM75-40100LF	10	10.0	22.0	6.0	10
HM75-201R0LF	1.0	1.1	4.6	10	11	HM75-40150LF	15	15.6	29.5	5.5	9.1
HM75-201R5LF	1.5	1.5	6.1	9	9	HM75-40220LF	22	22.6	34	4.5	7.6
HM75-202R2LF	2.2	2.3	7.8	7.4	7.8	HM75-40330LF	33	34.5	52	3.7	6.1
HM75-202R7LF	2.7	2.9	10.0	6.6	7.0	HM75-40470LF	47	48.0	71	3.1	5.2
HM75-203R3LF	3.3	3.3	11.0	5.9	6.4	HM75-40680LF	68	69.2	104	2.4	4.3
HM75-204R7LF	4.7	4.8	15.1	4.8	5.4	HM75-40101LF	100	103	156	2.0	3.6
HM75-20100LF	10	10.0	35	3.3	4.3	HM75-50R78LF	0.78	0.78	2.6	15	30
HM75-20150LF	15	15.43	45	3.1	3.0	HM75-501R0LF	1.0	0.92	3.1	17.3	37.3
HM75-20220LF	22	22.5	62	2.8	2.0	HM75-501R5LF	1.5	1.52	4.0	15	28.9
HM75-20330LF	33	33.2	92	2.1	1.7	HM75-502R2LF	2.2	2.27	5.6	12	23.7
HM75-20470LF	47	48.7	139	1.7	1.4	HM75-503R3LF	3.3	3.2	7.0	11	20.0
HM75-20680LF	68	68.2	177	1.5	1.2	HM75-503R9LF	3.9	4.0	10	9	15
HM75-20101LF	100	103	237	1.2	0.95	HM75-504R7LF	4.7	4.7	9.5	6.5	10.7
HM75-30R47LF	0.47	0.45	2.1	16	25.1	HM75-507R5LF	7.5	7.5	15	6	9.8
HM75-301R0LF	1.0	1.34	3.8	12.5	15.3	HM75-50100LF	10	10	40	3.5	8.0
HM75-301R5LF	1.5	1.65	4.9	10	12	HM75-50150LF	15	15	50	3.0	7.0
HM75-302R2LF	2.2	2.3	5.1	9.2	10.2	HM75-50220LF	22	22	66	2.5	5.5
HM75-303R3LF	3.3	3.44	10	8.0	9.3	HM75-50330LF	33	33	80	2.0	4.0
HM75-304R7LF	4.7	5.0	11.4	6.5	7.7	HM75-50470LF	47	47	110	1.6	3.8
HM75-306R8LF	6.8	6.9	17.8	5.8	6.2	HM75-50680LF	68	68	170	1.2	3.0
HM75-30100LF	10	11	22.8	4.3	5.2	HM75-50101LF	100	100	220	1.2	2.5
HM75-30150LF	15	16.4	35.0	3.9	4.3						

- Notes: (1) Inductance is measured at 100kHz, 100 mVrms, OADC.
 (2) RMS current is the approximate current at which inductance will decrease by 10% from its initial value (zero DC) or the DC current at which ΔT = 40°C, whichever is lower.
 (3) Saturation current for approximately 30% roll-off.

Outline Dimensions (Inch/mm)



Case size	A	B	C	D	E	F
10	.350 8.89	.240 6.09	.217 5.5	.249 6.33	.137 3.48	.225 5.72
20	.530 13.46	.395 10.03	.272 6.90	.410 10.41	.135 3.43	.295 7.49
30	.768 19.5	.52 13.21	.283 7.2	.610 15.5	.135 3.43	.283 7.2
40	.865 21.97	.60 15.24	.315 8.0	.690 17.53	.150 3.81	.370 9.40
50	.530 13.46	.395 10.03	.50 12.7	.410 10.41	.135 3.43	.295 7.49

Packaging

Standard: Embossed Tape and Reel

Reel:	Diameter:	=	13" (330.2mm)
	Capacity:	Case size 10	= 1,000 Units
		Case size 20	= 550 Units
		Case size 30	= 450 Units
		Case size 40	= 275 Units
		Case size 50	= 250 Units

Ordering Information

