

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

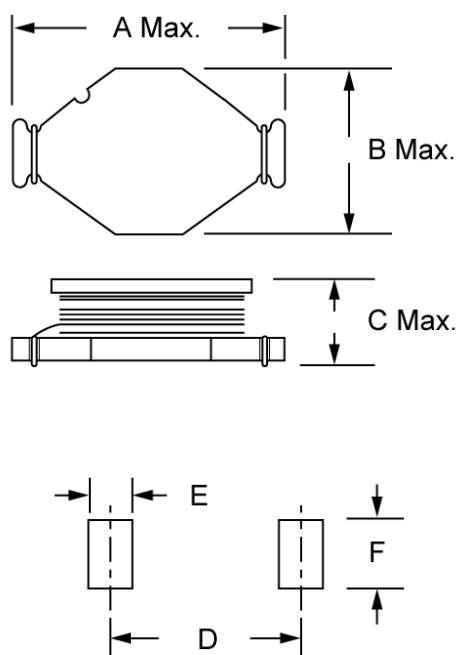


Specifications @ 25°C

Part Number	– Rated Inductance –		DCR Max. mΩ	Rated Current		Part Number	– Rated Inductance –		DCR Max. mΩ	Rated Current	
	L _{DC} μH Typ.	L w/o DC L ₀ (1) μH ± 20%		I _{RMS} (2) Amps	I _{SAT} (3) Amps		L _{DC} μH Typ.	L w/o DC L ₀ (1) μH ± 20%		I _{RMS} (2) Amps	I _{SAT} (3) 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	<u>.350</u> 8.89	<u>.240</u> 6.09	<u>.217</u> 5.5	<u>.249</u> 6.33	<u>.137</u> 3.48	<u>.225</u> 5.72
20	<u>.530</u> 13.46	<u>.395</u> 10.03	<u>.272</u> 6.90	<u>.410</u> 10.41	<u>.135</u> 3.43	<u>.295</u> 7.49
30	<u>.768</u> 19.5	<u>.52</u> 13.21	<u>.283</u> 7.2	<u>.610</u> 15.5	<u>.135</u> 3.43	<u>.283</u> 7.2
40	<u>.865</u> 21.97	<u>.60</u> 15.24	<u>.315</u> 8.0	<u>.690</u> 17.53	<u>.150</u> 3.81	<u>.370</u> 9.40
50	<u>.530</u> 13.46	<u>.395</u> 10.03	<u>.50</u> 12.7	<u>.410</u> 10.41	<u>.135</u> 3.43	<u>.295</u> 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

