

Surface Mount Power Inductors


HM79M Series



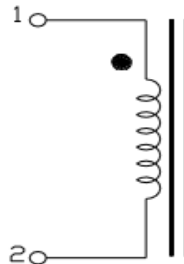
Features:

- Operating temperature range -55°C to +125°C
- Ambient temperature, max +85°C
- Temperature rise, 40°C
- Operating frequency up to 3MHz



 All parts are Pb-free and comply with EU RoHS Directive 2011/65/EU with amendment (EU) 2015/863 (RoHS3)

Schematic



Specifications @ 25°C

Part Number	Inductance ($\mu\text{H} \pm 20\%$) @0A	DCR (Ω) Max	I _{rms} (A) - max	I _{sat} (A) - max
HM79M-101R0LFTR	1.0	0.013	4.50	3.80
HM79M-101R5LFTR	1.5	0.022	4.50	3.50
HM79M-101R8LFTR	1.8	0.042	3.38	3.00
HM79M-102R2LFTR	2.2	0.042	3.38	2.50
HM79M-102R7LFTR	2.7	0.050	2.50	2.50
HM79M-103R3LFTR	3.3	0.050	2.50	2.20
HM79M-103R9LFTR	3.9	0.070	2.50	2.00
HM79M-104R7LFTR	4.7	0.094	2.46	1.82
HM79M-105R6LFTR	5.6	0.110	2.40	1.80
HM79M-106R8LFTR	6.8	0.132	2.20	1.80
HM79M-108R2LFTR	8.2	0.140	2.00	1.60
HM79M-10100LFTR	10.0	0.150	1.74	1.45
HM79M-10120LFTR	12.0	0.180	1.40	1.30

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.

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Specifications @ 25°C (Continued)

Part Number	Inductance ($\mu\text{H} \pm 20\%$) @0A	DCR (m Ω) Max	Isat (A) - max	Irms (A)- max
HM79M-10150LFTR	15.0	0.240	1.20	0.85
HM79M-10220LFTR	22.0	0.350	1.10	0.80
HM79M-10270LFTR	27.0	0.500	0.71	0.75
HM79M-10330LFTR	33.0	0.500	0.64	0.56
HM79M-10470LFTR	47.0	0.700	0.64	0.56
HM79M-10560LFTR	56.0	0.850	0.50	0.56
HM79M-10680LFTR	68.0	1.117	0.46	0.56
HM79M-10101LFTR	100.0	1.300	0.45	0.50
HM79M-10151LFTR	150.0	3.400	0.44	0.28
HM79M-10221LFTR	220.0	4.000	0.25	0.18
HM79M-10331LFTR	330.0	5.000	0.15	0.18
HM79M-10471LFTR	470.0	5.000	0.20	0.20
HM79M-10681LFTR	680.0	14.000	0.16	0.11
HM79M-10102LFTR	1000.0	12.000	0.12	0.10
HM79M-10222LFTR	2200.0	35.000	0.10	0.10
HM79M-20R47LFTR	0.47	0.0071	9.50	7.00
HM79M-201ROLFTR	1.0	0.010	7.50	6.00
HM79M-202R2LFTR	2.2	0.022	7.10	5.70
HM79M-203R3LFTR	3.3	0.0238	4.00	4.00
HM79M-204R7LFTR	4.7	0.0353	3.00	3.00
HM79M-20100LFTR	10.0	0.065	1.44	1.80
HM79M-20150LFTR	15.0	0.098	1.30	1.50
HM79M-20180LFTR	18.0	0.160	1.23	1.14
HM79M-20220LFTR	22.0	0.170	1.24	1.14
HM79M-20330LFTR	33.0	0.210	1.17	1.09
HM79M-20470LFTR	47.0	0.320	1.00	0.90
HM79M-20560LFTR	56.0	0.350	1.00	0.80
HM79M-20680LFTR	68.0	0.500	0.80	0.80
HM79M-20820LFTR	82.0	0.500	0.80	0.80
HM79M-20101LFTR	100.0	0.600	0.65	0.65
HM79M-20151LFTR	150.0	1.100	0.40	0.50

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Specifications @ 25°C (Continued)

Part Number	Inductance ($\mu\text{H} \pm 20\%$ @0A)	DCR (m Ω) Max	I _{rms} (A) - max	I _{sat} (A) - max
HM79M-20181LFTR	180.0	1.100	0.38	0.45
HM79M-20221LFTR	220.0	1.300	0.35	0.37
HM79M-20102LFTR	1000.0	5.600	0.26	0.20
HM79M-601R5LFTR	1.5	0.007	12.00	12.50
HM79M-602R2LFTR	2.2	0.010	8.50	8.50
HM79M-603R3LFTR	3.3	0.016	8.00	7.00
HM79M-604R7LFTR	4.7	0.016	6.50	6.50
HM79M-605R6LFTR	5.6	0.019	5.00	5.40
HM79M-606R8LFTR	6.8	0.023	5.00	5.40
HM79M-608R2LFTR	8.2	0.025	4.50	3.80
HM79M-60100LFTR	10.0	0.060	4.00	3.80
HM79M-60150LFTR	15.0	0.080	3.00	2.80
HM79M-60220LFTR	22.0	0.100	2.80	2.60
HM79M-60270LFTR	27.0	0.110	2.40	2.20
HM79M-60330LFTR	33.0	0.120	2.40	2.20
HM79M-60470LFTR	47.0	0.120	2.30	2.20
HM79M-60560LFTR	56.0	0.190	2.20	2.00
HM79M-60680LFTR	68.0	0.230	2.20	1.80
HM79M-60820LFTR	82.0	0.240	2.20	1.60
HM79M-60101LFTR	100.0	0.280	1.80	1.30
HM79M-60121LFTR	120.0	0.340	1.80	1.30
HM79M-60151LFTR	150.0	0.430	1.60	1.30
HM79M-60221LFTR	220.0	0.570	0.80	0.80
HM79M-60331LFTR	330.0	1.150	0.59	0.52
HM79M-60471LFTR	470.0	1.480	0.50	0.42
HM79M-60561LFTR	560.0	1.540	0.45	0.41
HM79M-60681LFTR	680.0	1.780	0.43	0.40
HM79M-60821LFTR	820.0	2.160	0.41	0.40
HM79M-60102LFTR	1000.0	3.000	0.40	0.40

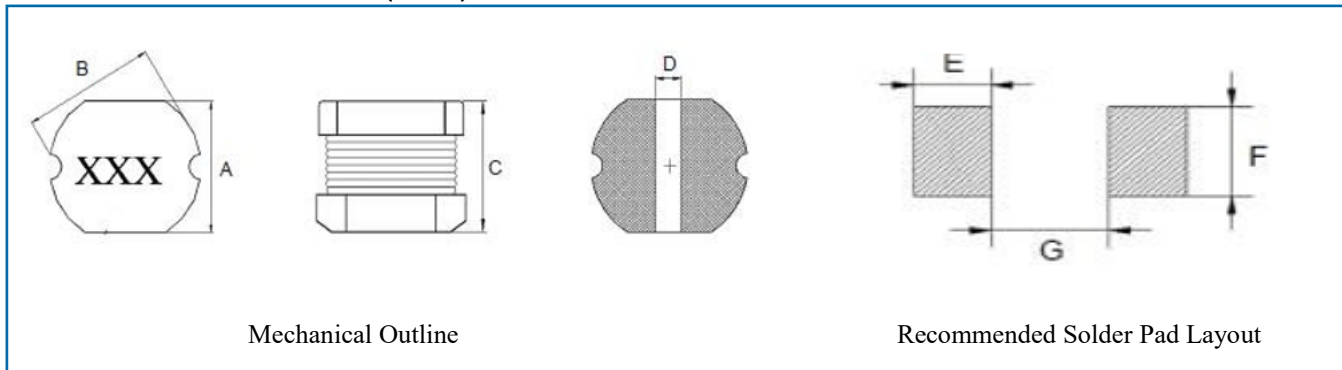
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Notes:

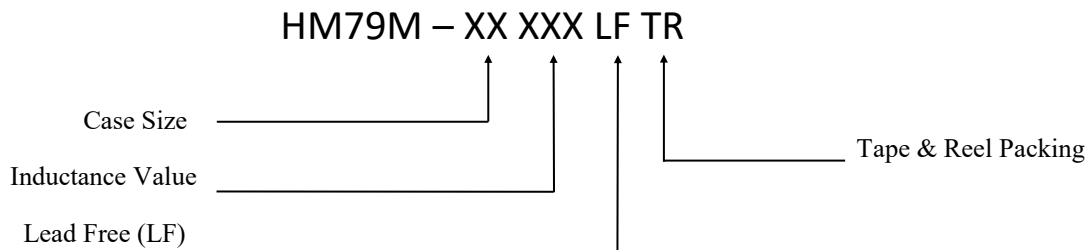
- 1) Isat is the saturation current at which inductance rolls off approximately 20% from its initial (zero DC)
- 2) Irms is the approximate current at which $\Delta T = 40^{\circ}C$
- 3) Operating Temperature Range $-55^{\circ}C$ to $+125^{\circ}C$
- 4) Test condition for all case sizes is 100kHz @1V

Outline dimensions (mm)



CASE SIZE	A(mm) - ± 0.30	B(mm) - ± 0.30	C(mm) - Max	D(mm) - Typ	E(mm) - Typ	F(mm) - Typ	G(mm) - Typ
HM79M-10 series	4.00	4.50	3.50	1.80	2.00	4.50	1.00
HM79M-20 series	5.20	5.80	4.80	2.00	2.00	5.50	1.50
HM79M-60 series	9.00	10.00	6.00	3.20	4.40	10.00	2.80

Packaging



Standard:	Embossed Tape and Reel			
	Reel:	Diameter:	All case size	= 13" (330mm)
	Capacity:		Case size 10 series = 2,000 units	
			Case size 20 series = 1,500 units	
			Case size 60 series = 1,000 units	

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