


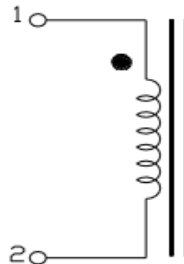
Features:

- 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-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 |

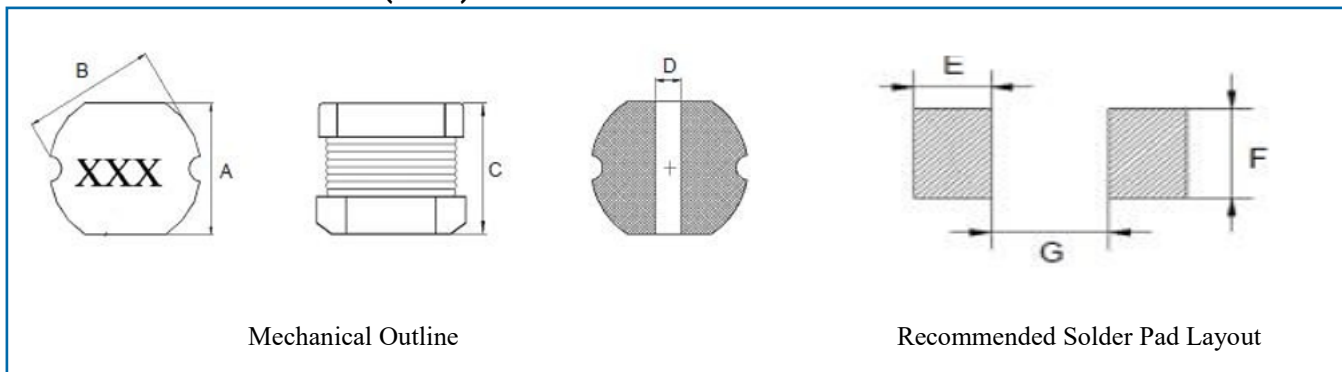
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Notes:

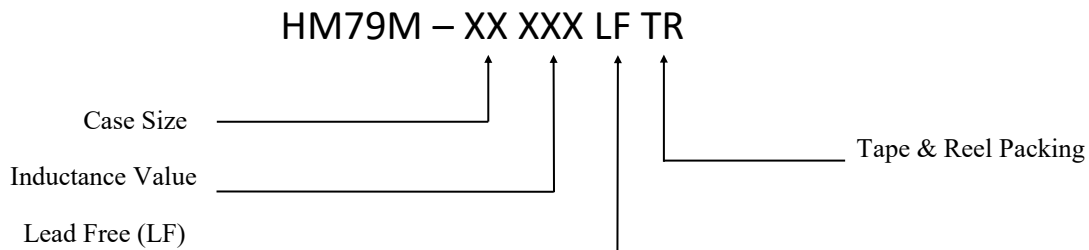
- 1) Isat is the saturation current at which inductance rolls off approximately 20% from its initial (zero DC)
- 2) Irms is the approximate current at which $\Delta T = 40^{\circ}C$
- 3) Operating Temperature Range $-55^{\circ}C$ to $+125^{\circ}C$
- 4) Test condition for all case sizes is 100kHz @1V

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 | |