

# Shielded Drum Surface Mount Inductors

## Model HM79S

### Features and Benefits

- Operating Temperature Range -40°C to +125°C
- Operating Frequency Up to 3MHz
- RoHS Compliant



## Specifications @ 25°C

| Part Number    | Inductance |             |                        | I <sub>rated</sub> <sup>(1)</sup><br>(Adc) | DCR<br>(Ω)<br>Max. | Part Number    | Inductance |             |                        | I <sub>rated</sub> <sup>(1)</sup><br>(Adc) | DCR<br>(Ω)<br>Max. |
|----------------|------------|-------------|------------------------|--------------------------------------------|--------------------|----------------|------------|-------------|------------------------|--------------------------------------------|--------------------|
|                | Lo<br>(μH) | Tol.<br>(%) | Test<br>Freq.<br>(kHz) |                                            |                    |                | Lo<br>(μH) | Tol.<br>(%) | Test<br>Freq.<br>(kHz) |                                            |                    |
| HM79S-63100LF  | 10         | ±20%        | 100                    | 1.00                                       | 0.14               | HM79S-105680LF | 68         | ±15%        | 100                    | 0.85                                       | 0.21               |
| HM79S-63120LF  | 12         | ±20%        | 100                    | 0.94                                       | 0.16               | HM79S-105820LF | 82         | ±15%        | 100                    | 0.79                                       | 0.28               |
| HM79S-63150LF  | 15         | ±20%        | 100                    | 0.86                                       | 0.18               | HM79S-105101LF | 100        | ±10%        | 1                      | 0.72                                       | 0.34               |
| HM79S-63180LF  | 18         | ±20%        | 100                    | 0.78                                       | 0.25               | HM79S-105121LF | 120        | ±10%        | 1                      | 0.63                                       | 0.37               |
| HM79S-63220LF  | 22         | ±20%        | 100                    | 0.76                                       | 0.32               | HM79S-105151LF | 150        | ±10%        | 1                      | 0.55                                       | 0.51               |
| HM79S-63270LF  | 27         | ±20%        | 100                    | 0.64                                       | 0.36               | HM79S-105181LF | 180        | ±10%        | 1                      | 0.50                                       | 0.57               |
| HM79S-63330LF  | 33         | ±15%        | 100                    | 0.61                                       | 0.41               | HM79S-105221LF | 220        | ±10%        | 1                      | 0.47                                       | 0.78               |
| HM79S-63390LF  | 39         | ±15%        | 100                    | 0.53                                       | 0.47               | HM79S-125171LF | 270        | ±10%        | 1                      | 0.41                                       | 0.87               |
| HM79S-63470LF  | 47         | ±15%        | 100                    | 0.50                                       | 0.51               | HM79S-105331LF | 330        | ±10%        | 1                      | 0.37                                       | 1.20               |
| HM79S-63560LF  | 56         | ±15%        | 100                    | 0.46                                       | 0.71               | HM79S-105391LF | 390        | ±10%        | 1                      | 0.35                                       | 1.34               |
| HM79S-63680LF  | 68         | ±15%        | 100                    | 0.42                                       | 0.82               | HM79S-105471LF | 470        | ±10%        | 1                      | 0.33                                       | 1.50               |
| HM79S-74100LF  | 10         | ±20%        | 100                    | 1.65                                       | 0.07               | HM79S-105681LF | 680        | ±10%        | 1                      | 0.28                                       | 2.25               |
| HM79S-74120LF  | 12         | ±20%        | 100                    | 1.57                                       | 0.07               | HM79S-125100LF | 10         | ±20%        | 100                    | 2.65                                       | 0.05               |
| HM79S-74150LF  | 15         | ±20%        | 100                    | 1.39                                       | 0.08               | HM79S-125120LF | 12         | ±20%        | 100                    | 2.50                                       | 0.05               |
| HM79S-74180LF  | 18         | ±20%        | 100                    | 1.29                                       | 0.1                | HM79S-125150LF | 15         | ±20%        | 100                    | 2.45                                       | 0.06               |
| HM79S-74220LF  | 22         | ±20%        | 100                    | 1.12                                       | 0.13               | HM79S-125180LF | 18         | ±20%        | 100                    | 2.40                                       | 0.06               |
| HM79S-74270LF  | 27         | ±20%        | 100                    | 1.06                                       | 0.16               | HM79S-125220LF | 22         | ±20%        | 100                    | 2.20                                       | 0.07               |
| HM79S-74330LF  | 33         | ±15%        | 100                    | 0.97                                       | 0.18               | HM79S-125270LF | 27         | ±20%        | 100                    | 2.00                                       | 0.08               |
| HM79S-74390LF  | 39         | ±15%        | 100                    | 0.91                                       | 0.18               | HM79S-125330LF | 33         | ±20%        | 100                    | 1.80                                       | 0.10               |
| HM79S-74470LF  | 47         | ±15%        | 100                    | 0.80                                       | 0.27               | HM79S-125390LF | 39         | ±20%        | 100                    | 1.65                                       | 0.11               |
| HM79S-74560LF  | 56         | ±15%        | 100                    | 0.76                                       | 0.29               | HM79S-125470LF | 47         | ±20%        | 100                    | 1.50                                       | 0.12               |
| HM79S-74680LF  | 68         | ±15%        | 100                    | 0.68                                       | 0.33               | HM79S-125560LF | 56         | ±20%        | 100                    | 1.38                                       | 0.15               |
| HM79S-74820LF  | 82         | ±15%        | 100                    | 0.62                                       | 0.43               | HM79S-125680LF | 68         | ±20%        | 100                    | 1.26                                       | 0.17               |
| HM79S-74101LF  | 100        | ±10%        | 1                      | 0.55                                       | 0.49               | HM79S-125820LF | 82         | ±20%        | 100                    | 1.14                                       | 0.20               |
| HM79S-74121LF  | 120        | ±10%        | 1                      | 0.49                                       | 0.68               | HM79S-125101LF | 100        | ±20%        | 1                      | 1.05                                       | 0.25               |
| HM79S-74151LF  | 150        | ±10%        | 1                      | 0.44                                       | 0.94               | HM79S-125121LF | 120        | ±20%        | 1                      | 0.95                                       | 0.28               |
| HM79S-74181LF  | 180        | ±10%        | 1                      | 0.40                                       | 1.00               | HM79S-125151LF | 150        | ±20%        | 1                      | 0.85                                       | 0.40               |
| HM79S-74221LF  | 220        | ±10%        | 1                      | 0.36                                       | 1.18               | HM79S-125181LF | 180        | ±20%        | 1                      | 0.77                                       | 0.48               |
| HM79S-74271LF  | 270        | ±10%        | 1                      | 0.33                                       | 1.30               | HM79S-125221LF | 220        | ±20%        | 1                      | 0.70                                       | 0.52               |
| HM79S-105100LF | 10         | ±20%        | 100                    | 2.06                                       | 0.06               | HM79S-125271LF | 270        | ±20%        | 1                      | 0.63                                       | 0.70               |
| HM79S-105120LF | 12         | ±20%        | 100                    | 1.94                                       | 0.07               | HM79S-125331LF | 330        | ±20%        | 1                      | 0.57                                       | 0.80               |
| HM79S-105150LF | 15         | ±20%        | 100                    | 1.72                                       | 0.07               | HM79S-125391LF | 390        | ±20%        | 1                      | 0.52                                       | 1.08               |
| HM79S-105180LF | 18         | ±20%        | 100                    | 1.58                                       | 0.08               | HM79S-125471LF | 470        | ±20%        | 1                      | 0.48                                       | 1.20               |
| HM79S-105220LF | 22         | ±20%        | 100                    | 1.42                                       | 0.08               | HM79S-125561LF | 560        | ±20%        | 1                      | 0.44                                       | 1.34               |
| HM79S-105270LF | 27         | ±20%        | 100                    | 1.32                                       | 0.10               | HM79S-125681LF | 680        | ±20%        | 1                      | 0.40                                       | 1.78               |
| HM79S-105330LF | 33         | ±15%        | 100                    | 1.16                                       | 0.11               | HM79S-125821LF | 820        | ±20%        | 1                      | 0.36                                       | 2.00               |
| HM79S-105390LF | 39         | ±15%        | 100                    | 1.10                                       | 0.12               | HM79S-125222LF | 2200       | ±20%        | 1                      | 0.22                                       | 2.85               |
| HM79S-105470LF | 47         | ±15%        | 100                    | 1.00                                       | 0.14               | HM79S-125332LF | 3300       | ±20%        | 1                      | 0.16                                       | 4.30               |
| HM79S-105560LF | 56         | ±15%        | 100                    | 0.93                                       | 0.19               |                |            |             |                        |                                            |                    |

Note: (1) The rated current (I<sub>rated</sub>) is the approximate DC current at which inductance will be decreased by 10 % from its initial (zero DC) value or the current at which ΔT= 40°C, whichever is lower.

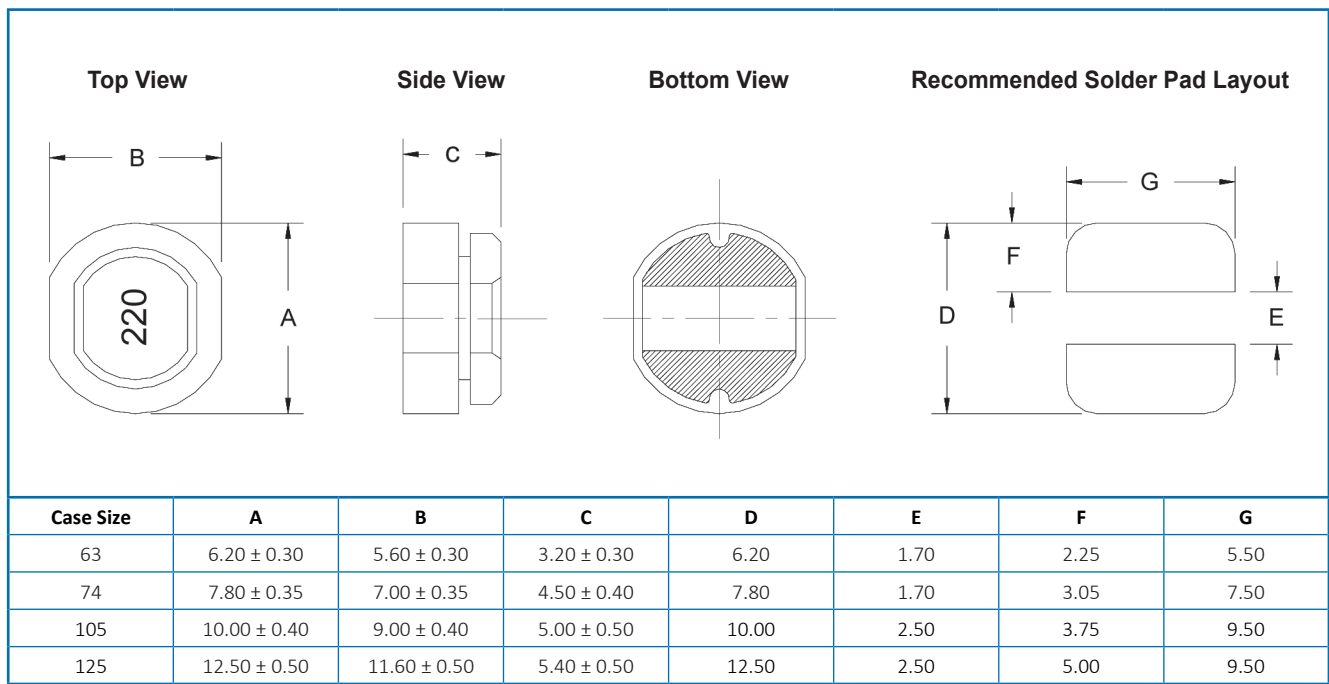
### General Note

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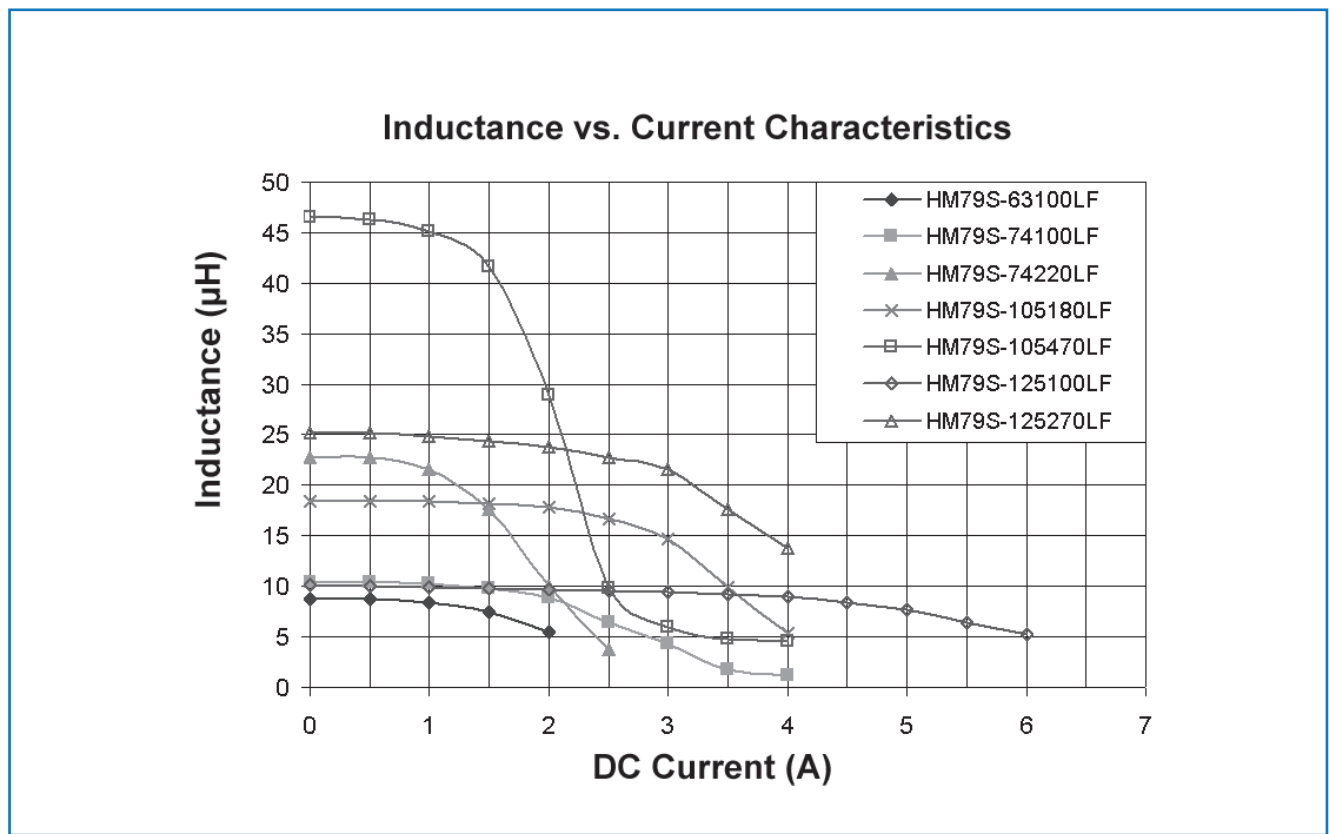
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Model HM79S

Outline Dimensions (mm)



Electrical Characteristics @ 25°C



General Note

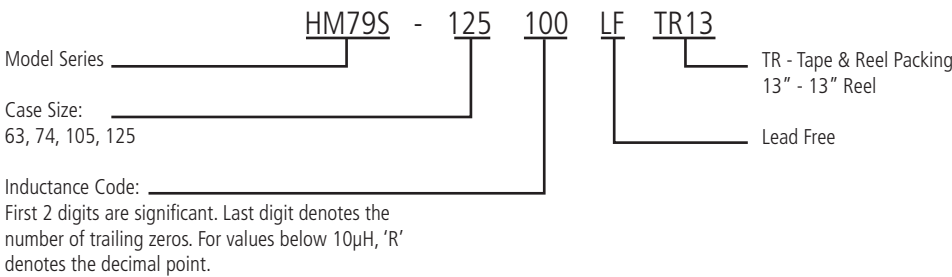
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Packaging

|                      |           |               |   |               |
|----------------------|-----------|---------------|---|---------------|
| Embossed Tape & Reel |           |               |   |               |
| Standard             | Reel:     | Diameter:     | = | 13" (330.2mm) |
|                      | Capacity: | Case size 63  | = | 2000 units    |
|                      |           | Case size 74  | = | 1000 units    |
|                      |           | Case size 105 | = | 500 units     |
|                      |           | Case size 125 | = | 500 units     |

Ordering Information



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- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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