

# MO1812

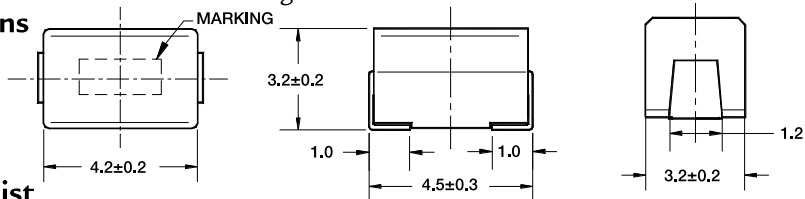
## Plastic-Moulded Inductor High L (1 $\mu$ H-330 $\mu$ H)

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### Features

- Moulded wound chip inductors.
- Operating temperature (-40°C to +125°C).
- Resistance to solder heat 260 °C 10 s.
- High current capacity.
- Excellent solderability and resistance to soldering heat.
- Suitable for flow and reflow soldering.

### Dimensions



### Product List

| Ordering code <sup>2</sup> | L <sub>r</sub> (μH) | Tolerance <sup>1</sup> | Marking | Q <sub>Min</sub> <sup>3</sup> | f <sub>i</sub> f <sub>0</sub> (MHz) | I <sub>DC</sub> max. (mA) | RDC max. (Ω) | SRF Min. (MHz) |
|----------------------------|---------------------|------------------------|---------|-------------------------------|-------------------------------------|---------------------------|--------------|----------------|
| MO1812-101M                | 0.10                | ±20%                   | R10     | 35                            | 25.20                               | 800                       | 0.18         | 300            |
| MO1812-121M                | 0.12                | ±20%                   | R12     | 35                            | 25.20                               | 770                       | 0.20         | 280            |
| MO1812-151M                | 0.15                | ±20%                   | R15     | 35                            | 25.20                               | 730                       | 0.22         | 250            |
| MO1812-181M                | 0.18                | ±20%                   | R18     | 35                            | 25.20                               | 700                       | 0.24         | 220            |
| MO1812-221M                | 0.22                | ±20%                   | R22     | 40                            | 25.20                               | 665                       | 0.25         | 200            |
| MO1812-271M                | 0.27                | ±20%                   | R27     | 40                            | 25.20                               | 635                       | 0.26         | 180            |
| MO1812-331M                | 0.33                | ±20%                   | R33     | 40                            | 25.20                               | 605                       | 0.28         | 165            |
| MO1812-391M                | 0.39                | ±20%                   | R39     | 40                            | 25.20                               | 575                       | 0.30         | 150            |
| MO1812-471M                | 0.47                | ±20%                   | R47     | 40                            | 25.20                               | 545                       | 0.32         | 145            |
| MO1812-561M                | 0.56                | ±20%                   | R56     | 40                            | 25.20                               | 520                       | 0.36         | 140            |
| MO1812-681M                | 0.68                | ±20%                   | R68     | 40                            | 25.20                               | 500                       | 0.40         | 135            |
| MO1812-821M                | 0.82                | ±20%                   | R82     | 40                            | 25.20                               | 475                       | 0.45         | 130            |
| MO1812-102K                | 1.00                | ±10%                   | 1R0     | 50                            | 7.960                               | 450                       | 0.50         | 100            |
| MO1812-122K                | 1.20                | ±10%                   | 1R2     | 50                            | 7.960                               | 430                       | 0.55         | 80             |
| MO1812-152K                | 1.50                | ±10%                   | 1R5     | 50                            | 7.960                               | 410                       | 0.60         | 70             |
| MO1812-182K                | 1.80                | ±10%                   | 1R8     | 50                            | 7.960                               | 390                       | 0.65         | 60             |
| MO1812-222K                | 2.20                | ±10%                   | 2R2     | 50                            | 7.960                               | 380                       | 0.70         | 55             |
| MO1812-272K                | 2.70                | ±10%                   | 2R7     | 50                            | 7.960                               | 370                       | 0.75         | 50             |
| MO1812-332K                | 3.30                | ±10%                   | 3R3     | 50                            | 7.960                               | 355                       | 0.80         | 45             |
| MO1812-392K                | 3.90                | ±10%                   | 3R9     | 50                            | 7.960                               | 330                       | 0.85         | 40             |
| MO1812-472K                | 4.70                | ±10%                   | 4R7     | 50                            | 7.960                               | 315                       | 0.90         | 35             |
| MO1812-562K                | 5.60                | ±10%                   | 5R6     | 50                            | 7.960                               | 300                       | 1.00         | 33             |
| MO1812-682K                | 6.80                | ±10%                   | 6R8     | 50                            | 7.960                               | 285                       | 1.10         | 27             |
| MO1812-822K                | 8.20                | ±10%                   | 8R2     | 50                            | 7.960                               | 270                       | 1.20         | 25             |
| MO1812-103K                | 10.0                | ±10%                   | 100     | 50                            | 2.520                               | 250                       | 1.40         | 20             |
| MO1812-123K                | 12.0                | ±10%                   | 120     | 50                            | 2.520                               | 225                       | 1.60         | 18             |
| MO1812-153K                | 15.0                | ±10%                   | 150     | 50                            | 2.520                               | 200                       | 2.00         | 17             |
| MO1812-183K                | 18.0                | ±10%                   | 180     | 50                            | 2.520                               | 190                       | 2.50         | 15             |
| MO1812-223K                | 22.0                | ±10%                   | 220     | 50                            | 2.520                               | 180                       | 2.80         | 13             |
| MO1812-273K                | 27.0                | ±10%                   | 270     | 50                            | 2.520                               | 170                       | 3.20         | 12             |
| MO1812-333K                | 33.0                | ±10%                   | 330     | 50                            | 2.520                               | 160                       | 3.60         | 11             |
| MO1812-393K                | 39.0                | ±10%                   | 390     | 50                            | 2.520                               | 150                       | 4.00         | 10             |
| MO1812-473K                | 47.0                | ±10%                   | 470     | 50                            | 2.520                               | 140                       | 4.50         | 10             |
| MO1812-563K                | 56.0                | ±10%                   | 560     | 50                            | 2.520                               | 135                       | 5.00         | 9.0            |
| MO1812-683K                | 68.0                | ±10%                   | 680     | 50                            | 2.520                               | 130                       | 5.50         | 9.0            |
| MO1812-823K                | 82.0                | ±10%                   | 820     | 50                            | 2.520                               | 120                       | 6.00         | 8.0            |
| MO1812-104K                | 100                 | ±10%                   | 101     | 40                            | 0.796                               | 110                       | 7.00         | 8.0            |
| MO1812-124K                | 120                 | ±10%                   | 121     | 40                            | 0.796                               | 110                       | 8.00         | 6.0            |
| MO1812-154K                | 150                 | ±10%                   | 151     | 40                            | 0.796                               | 105                       | 9.00         | 5.0            |
| MO1812-184K                | 180                 | ±10%                   | 181     | 40                            | 0.796                               | 102                       | 9.50         | 5.0            |
| MO1812-224K                | 220                 | ±10%                   | 221     | 40                            | 0.796                               | 100                       | 10.00        | 4.0            |
| MO1812-274K                | 270                 | ±10%                   | 271     | 40                            | 0.796                               | 92                        | 12.00        | 4.0            |
| MO1812-334K                | 330                 | ±10%                   | 331     | 40                            | 0.796                               | 85                        | 14.00        | 3.5            |
| MO1812-394K                | 390                 | ±10%                   | 391     | 40                            | 0.796                               | 80                        | 18.00        | 3.0            |
| MO1812-474K                | 470                 | ±10%                   | 471     | 40                            | 0.796                               | 62                        | 26.00        | 3.0            |
| MO1812-564K                | 560                 | ±10%                   | 561     | 30                            | 0.796                               | 50                        | 30.00        | 3.1            |
| MO1812-684K                | 680                 | ±10%                   | 681     | 30                            | 0.796                               | 50                        | 30.00        | 3.1            |
| MO1812-824K                | 820                 | ±10%                   | 821     | 30                            | 0.796                               | 30                        | 35.00        | 2.5            |
| MO1812-105K                | 1000                | ±10%                   | 102     | 20                            | 0.252                               | 30                        | 40.00        | 2.5            |

### Applications.

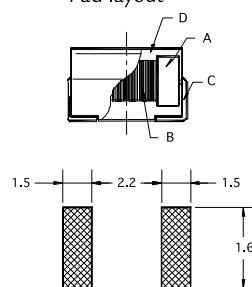
- Computers.
- VCR and TV.
- Notebooks.
- Digital cameras

SMD RF Chip Inductors

### Materials:

- A: Ferrite DR core.
- B: Enamelled copper wire class H.
- C: Terminal: Cu/Sn.
- D: Encapsulate: epoxy NOVOLAC moulding compound.

Pad layout



1. Closer tolerances upon request.
2. Replace the + by the code letter for the required inductance.

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3. See Q graphics in page for more details.