



## MLP1812



**Wirewound, Molded, MIL-PRF-27**

**M27/368 Ferrite Core**

**Outgassing Tested per ASTM E-595 (\*)**

| PART NUMBER          | MIL DASH NUMBER | L $\mu$ H<br>@1 kHz * | DCR<br>OHMS<br>MAX | CURRENT<br>RATING<br>A DC | INC I<br>A DC |
|----------------------|-----------------|-----------------------|--------------------|---------------------------|---------------|
| M27/368 FERRITE CORE |                 |                       |                    |                           |               |
| MLP1812-101K         | 01              | 1.0                   | 0.113              | 1.050                     | 2.400         |
| MLP1812-121K         | 02              | 1.2                   | 0.199              | 1.000                     | 2.158         |
| MLP1812-151K         | 03              | 1.5                   | 0.222              | 0.950                     | 1.980         |
| MLP1812-181K         | 04              | 1.8                   | 0.240              | 0.900                     | 1.028         |
| MLP1812-221K         | 05              | 2.2                   | 0.268              | 0.850                     | 1.697         |
| MLP1812-271K         | 06              | 2.7                   | 0.288              | 0.800                     | 1.513         |
| MLP1812-331K         | 07              | 3.3                   | 0.323              | 0.750                     | 1.397         |
| MLP1812-391K         | 08              | 3.9                   | 0.347              | 0.700                     | 1.250         |
| MLP1812-471K         | 09              | 4.7                   | 0.401              | 0.650                     | 1.131         |
| MLP1812-561K         | 10              | 5.6                   | 0.437              | 0.650                     | 1.060         |
| MLP1812-681K         | 11              | 6.8                   | 0.472              | 0.600                     | 0.990         |
| MLP1812-821K         | 12              | 8.2                   | 0.548              | 0.600                     | 0.871         |
| MLP1812-102K         | 13              | 10                    | 0.608              | 0.550                     | 0.772         |
| MLP1812-122K         | 14              | 12                    | 0.670              | 0.550                     | 0.752         |
| MLP1812-152K         | 15              | 15                    | 0.780              | 0.450                     | 0.693         |
| MLP1812-182K         | 16              | 18                    | 0.875              | 0.400                     | 0.614         |
| MLP1812-222K         | 17              | 22                    | 1.200              | 0.370                     | 0.515         |
| MLP1812-272K         | 18              | 27                    | 1.404              | 0.330                     | 0.465         |
| MLP1812-332K         | 19              | 33                    | 1.578              | 0.300                     | 0.425         |
| MLP1812-392K         | 20              | 39                    | 1.848              | 0.280                     | 0.376         |
| MLP1812-472K         | 21              | 47                    | 2.064              | 0.260                     | 0.366         |
| MLP1812-562K         | 22              | 56                    | 2.268              | 0.240                     | 0.336         |
| MLP1812-682K         | 23              | 68                    | 3.408              | 0.220                     | 0.297         |
| MLP1812-822K         | 24              | 82                    | 3.648              | 0.200                     | 0.267         |
| MLP1812-103K         | 25              | 100                   | 4.320              | 0.180                     | 0.238         |
| MLP1812-123K         | 26              | 120                   | 6.000              | 0.160                     | 0.208         |
| MLP1812-153K         | 27              | 150                   | 6.432              | 0.140                     | 0.183         |
| MLP1812-183K         | 28              | 180                   | 8.400              | 0.120                     | 0.158         |
| MLP1812-223K         | 29              | 220                   | 9.680              | 0.120                     | 0.143         |
| MLP1812-273K         | 30              | 270                   | 12.720             | 0.100                     | 0.129         |
| MLP1812-333K         | 31              | 330                   | 15.240             | 0.090                     | 0.118         |

All part numbers provide 10% tolerance on inductance

\* Measured at 1 V ac open circuit with no dc current at 1 kHz

### NOTES:

- Operating Temperature Range:  
-55°C to +130°C
- Current Rating is based on a 40°C temperature rise at an ambient temperature of 90°C
- Incremental Current is the approximate value that will cause a 5% maximum decrease in inductance at a zero dc current
- DWV 200 Vrms @ Sea Level  
80 Vrms @ 70,000 Feet
- Grade 5, encapsulated
- Weight maximum 1.5 grams
- \* Meets a TML (Total Mass Loss) requirement of 1.0% maximum when tested in accordance with ASTM E-595; this calculation does not include WVR (Water Vapor Recovered)

### TAPE AND REEL SPECS:

|                      |        |
|----------------------|--------|
| Pcs./Reel maximum:   | 2200   |
| Pitch between parts: | 8 mm   |
| Tape width:          | 12 mm  |
| Reel diameter:       | 13 in. |

