

# MLP5025



**Wirewound, Molded, Level T Qualified, MIL-PRF-27**

**M27/367 Ferrite Core**

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



| PART NUMBER   | MIL DASH NUMBER | L $\mu$ H @ I kHz * | DCR OHMS MAX | CURRENT RATING A DC | INC I A DC |
|---------------|-----------------|---------------------|--------------|---------------------|------------|
| FERRITE CORE  |                 |                     |              |                     |            |
| MLP5025-220LT | 01T             | 0.22                | 0.0080       | 7.00                | 7.00       |
| MLP5025-270LT | 02T             | 0.27                | 0.0085       | 6.75                | 6.75       |
| MLP5025-330LT | 03T             | 0.33                | 0.0090       | 6.50                | 6.50       |
| MLP5025-390LT | 04T             | 0.39                | 0.0095       | 6.25                | 6.25       |
| MLP5025-470LT | 05T             | 0.47                | 0.0100       | 6.00                | 6.00       |
| MLP5025-560LT | 06T             | 0.56                | 0.0105       | 5.80                | 5.80       |
| MLP5025-680LT | 07T             | 0.68                | 0.0110       | 5.70                | 5.70       |
| MLP5025-820LT | 08T             | 0.82                | 0.0120       | 5.60                | 5.60       |
| MLP5025-101LT | 09T             | 1.00                | 0.0130       | 5.50                | 5.50       |
| MLP5025-121LT | 10T             | 1.20                | 0.0180       | 4.69                | 4.69       |
| MLP5025-151LT | 11T             | 1.50                | 0.0200       | 4.45                | 4.45       |
| MLP5025-181LT | 12T             | 1.80                | 0.0210       | 4.34                | 4.34       |
| MLP5025-221LT | 13T             | 2.20                | 0.0290       | 3.70                | 3.70       |
| MLP5025-271LT | 14T             | 2.70                | 0.0340       | 3.41                | 3.41       |
| MLP5025-331LT | 15T             | 3.30                | 0.0380       | 3.23                | 3.23       |
| MLP5025-391LT | 16T             | 3.90                | 0.0420       | 3.07                | 3.07       |
| MLP5025-471LT | 17T             | 4.70                | 0.0470       | 2.90                | 2.90       |
| MLP5025-561LT | 18T             | 5.60                | 0.0510       | 2.79                | 2.79       |
| MLP5025-681LT | 19T             | 6.80                | 0.0580       | 2.61                | 2.61       |
| MLP5025-821LT | 20T             | 8.20                | 0.0630       | 2.51                | 2.51       |
| MLP5025-102LT | 21T             | 10                  | 0.0710       | 2.36                | 2.36       |
| MLP5025-122LT | 22T             | 12                  | 0.0790       | 2.24                | 2.24       |
| MLP5025-152LT | 23T             | 15                  | 0.0890       | 2.11                | 2.11       |
| MLP5025-182LT | 24T             | 18                  | 0.1190       | 1.82                | 1.82       |
| MLP5025-222LT | 25T             | 22                  | 0.1520       | 1.61                | 1.61       |
| MLP5025-272LT | 26T             | 27                  | 0.1790       | 1.48                | 1.48       |
| MLP5025-332LT | 27T             | 33                  | 0.2220       | 1.33                | 1.33       |
| MLP5025-392LT | 28T             | 39                  | 0.3150       | 1.12                | 1.12       |
| MLP5025-472LT | 29T             | 47                  | 0.3620       | 1.04                | 1.04       |

All part numbers provide 10% tolerance on inductance

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

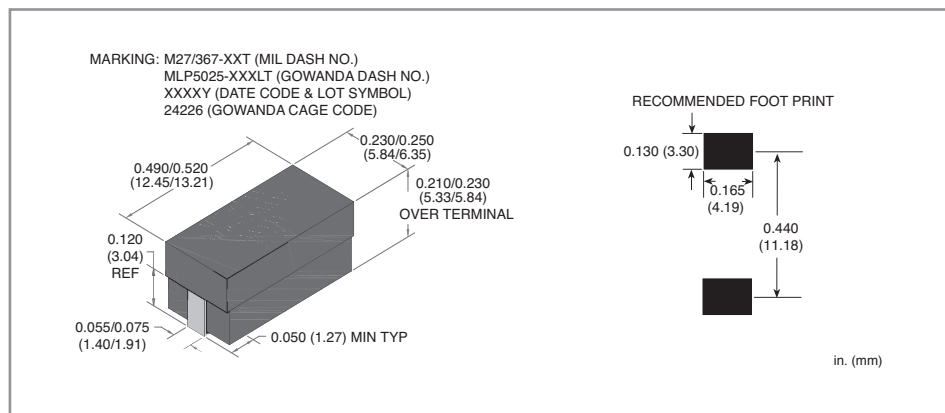
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## NOTES:

- Operating Temperature Range: -55°C to +130°C
- Current Rating is based on a 45°C temperature rise at an ambient temperature of 85°C
- Incremental Current is the approximate value that will cause a 5% maximum decrease in inductance at a zero dc current
- DWV 1000 Vrms @ Sea Level  
500 Vrms @ 70,000 Feet
- Grade 5, encapsulated
- Weight maximum 1.5 grams
- Level T Product is 100% Tested In Accordance with MIL-PRF-27 Group A Subgroup 1 which includes Thermal Shock, Burn In, and Radiographic Inspection Tests
- \*Meets a TML (Total Mass Loss) requirement of 1.0% maximum when tested in accordance with ASTM E-595

## TAPE AND REEL SPECS:

|                      |        |
|----------------------|--------|
| Pcs./Reel maximum:   | 800    |
| Pitch between parts: | 12 mm  |
| Tape width:          | 24 mm  |
| Reel diameter:       | 13 in. |



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|---------------|-----------------|---------------------|--------------|---------------------|------------|
| FERRITE CORE  |                 |                     |              |                     |            |
| MLP5025-822LT | 32T             | 82                  | 0.604        | 0.810               | 0.810      |
| MLP5025-103LT | 33T             | 100                 | 0.672        | 0.760               | 0.760      |
| MLP5025-123LT | 34T             | 120                 | 0.735        | 0.730               | 0.730      |
| MLP5025-153LT | 35T             | 150                 | 0.998        | 0.630               | 0.630      |
| MLP5025-183LT | 36T             | 180                 | 1.37         | 0.530               | 0.530      |
| MLP5025-223LT | 37T             | 220                 | 1.58         | 0.500               | 0.500      |
| MLP5025-273LT | 38T             | 270                 | 1.77         | 0.470               | 0.470      |
| MLP5025-333LT | 39T             | 330                 | 2.51         | 0.390               | 0.390      |
| MLP5025-393LT | 40T             | 390                 | 2.73         | 0.380               | 0.380      |
| MLP5025-473LT | 41T             | 470                 | 3.25         | 0.350               | 0.350      |
| MLP5025-563LT | 42T             | 560                 | 3.75         | 0.330               | 0.330      |
| MLP5025-683LT | 43T             | 680                 | 4.31         | 0.300               | 0.300      |
| MLP5025-823LT | 44T             | 820                 | 6.04         | 0.260               | 0.260      |
| MLP5025-104LT | 45T             | 1000                | 6.90         | 0.240               | 0.240      |
| MLP5025-124LT | 46T             | 1200                | 10.0         | 0.200               | 0.200      |
| MLP5025-154LT | 47T             | 1500                | 12.5         | 0.178               | 0.178      |
| MLP5025-184LT | 48T             | 1800                | 16.0         | 0.157               | 0.157      |
| MLP5025-224LT | 49T             | 2200                | 20.0         | 0.141               | 0.141      |
| MLP5025-274LT | 50T             | 2700                | 23.0         | 0.131               | 0.131      |
| MLP5025-334LT | 51T             | 3300                | 25.0         | 0.126               | 0.126      |
| MLP5025-394LT | 52T             | 3900                | 33.0         | 0.110               | 0.110      |
| MLP5025-474LT | 53T             | 4700                | 37.0         | 0.103               | 0.103      |
| MLP5025-564LT | 54T             | 5600                | 40.0         | 0.100               | 0.100      |
| MLP5025-684LT | 55T             | 6800                | 62.0         | 0.080               | 0.080      |
| MLP5025-824LT | 56T             | 8200                | 66.0         | 0.077               | 0.077      |
| MLP5025-105LT | 57T             | 10000               | 74.0         | 0.071               | 0.071      |
| MLP5025-125LT | 58T             | 12000               | 93.0         | 0.065               | 0.065      |
| MLP5025-155LT | 59T             | 15000               | 105.0        | 0.061               | 0.061      |
| MLP5025-185LT | 60T             | 18000               | 143.0        | 0.052               | 0.052      |
| MLP5025-225LT | 61T             | 22000               | 160.0        | 0.050               | 0.050      |

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