

## MLP8527



Wirewound, Molded, MIL-PRF-27

M27/370 Ferrite Core

Outgassing Tested per ASTM E-595 (\*)

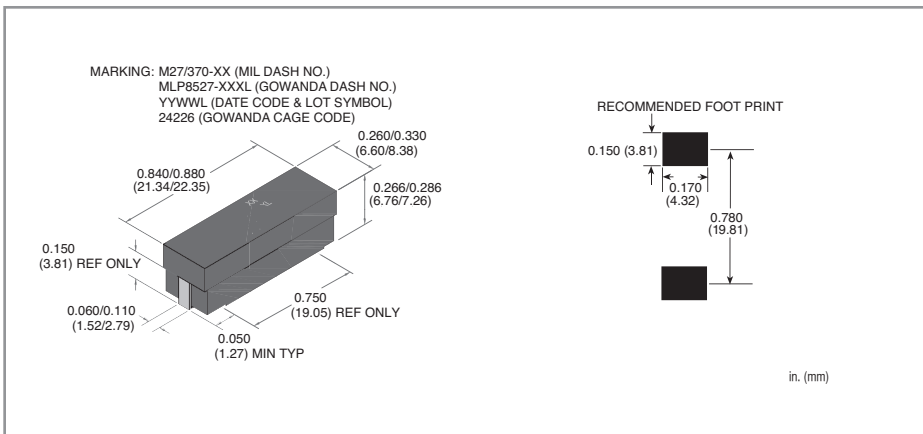


| PART NUMBER          | MIL DASH NUMBER | L $\mu$ H @ 1 kHz * | DCR OHMS MAX | CURRENT RATING A DC | INC I A DC |
|----------------------|-----------------|---------------------|--------------|---------------------|------------|
| M27/370 FERRITE CORE |                 |                     |              |                     |            |
| MLP8527-101L         | 01              | 1.0                 | 0.009        | 6.27                | 6.4        |
| MLP8527-121L         | 02              | 1.2                 | 0.010        | 5.95                | 5.8        |
| MLP8527-151L         | 03              | 1.5                 | 0.011        | 5.67                | 5.2        |
| MLP8527-181L         | 04              | 1.8                 | 0.012        | 5.43                | 4.8        |
| MLP8527-221L         | 05              | 2.2                 | 0.013        | 5.22                | 4.3        |
| MLP8527-271L         | 06              | 2.7                 | 0.014        | 5.03                | 3.9        |
| MLP8527-331L         | 07              | 3.3                 | 0.016        | 4.70                | 3.5        |
| MLP8527-391L         | 08              | 3.9                 | 0.017        | 4.56                | 3.2        |
| MLP8527-471L         | 09              | 4.7                 | 0.022        | 4.01                | 2.9        |
| MLP8527-561L         | 10              | 5.6                 | 0.024        | 3.84                | 2.7        |
| MLP8527-681L         | 11              | 6.8                 | 0.026        | 3.69                | 2.5        |
| MLP8527-821L         | 12              | 8.2                 | 0.028        | 3.55                | 2.2        |
| MLP8527-102L         | 13              | 10                  | 0.033        | 3.27                | 2.0        |
| MLP8527-122L         | 14              | 12                  | 0.037        | 3.09                | 1.8        |
| MLP8527-152L         | 15              | 15                  | 0.040        | 2.97                | 1.6        |
| MLP8527-182L         | 16              | 18                  | 0.044        | 2.84                | 1.5        |
| MLP8527-222L         | 17              | 22                  | 0.050        | 2.66                | 1.4        |
| MLP8527-272L         | 18              | 27                  | 0.070        | 2.25                | 1.2        |
| MLP8527-332L         | 19              | 33                  | 0.075        | 2.17                | 1.1        |
| MLP8527-392L         | 20              | 39                  | 0.084        | 2.05                | 1.0        |
| MLP8527-472L         | 21              | 47                  | 0.104        | 1.84                | 0.93       |
| MLP8527-562L         | 22              | 56                  | 0.130        | 1.65                | 0.85       |
| MLP8527-682L         | 23              | 68                  | 0.145        | 1.56                | 0.77       |
| MLP8527-822L         | 24              | 82                  | 0.152        | 1.53                | 0.71       |
| MLP8527-103L         | 25              | 100                 | 0.208        | 1.30                | 0.64       |
| MLP8527-123L         | 26              | 120                 | 0.283        | 1.12                | 0.58       |
| MLP8527-153L         | 27              | 150                 | 0.330        | 1.04                | 0.52       |
| MLP8527-183L         | 28              | 180                 | 0.362        | 0.99                | 0.48       |
| MLP8527-223L         | 29              | 220                 | 0.505        | 0.84                | 0.43       |
| MLP8527-273L         | 30              | 270                 | 0.557        | 0.80                | 0.39       |

All part numbers provide 15% tolerance on inductance

*continued next page*

\* 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 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 2.5 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:   | 480    |
| Pitch between parts: | 16 mm  |
| Tape width:          | 44 mm  |
| Reel diameter:       | 13 in. |

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|----------------------|-----------------|--------------------|--------------|---------------------|------------|
| M27/370 FERRITE CORE |                 |                    |              |                     |            |
| MLP8527-333L         | 31              | 330                | 0.650        | 0.74                | 0.35       |
| MLP8527-393L         | 32              | 390                | 0.770        | 0.68                | 0.32       |
| MLP8527-473L         | 33              | 470                | 1.03         | 0.59                | 0.29       |
| MLP8527-563L         | 34              | 560                | 1.14         | 0.56                | 0.27       |
| MLP8527-683L         | 35              | 680                | 1.50         | 0.49                | 0.25       |
| MLP8527-823L         | 36              | 820                | 1.98         | 0.42                | 0.22       |
| MLP8527-104L         | 37              | 1000               | 2.30         | 0.39                | 0.20       |
| MLP8527-124L         | 38              | 1200               | 2.55         | 0.37                | 0.18       |
| MLP8527-154L         | 39              | 1500               | 3.00         | 0.34                | 0.16       |
| MLP8527-184L         | 40              | 1800               | 4.00         | 0.30                | 0.15       |
| MLP8527-224L         | 41              | 2200               | 4.40         | 0.28                | 0.14       |
| MLP8527-274L         | 42              | 2700               | 5.80         | 0.25                | 0.12       |
| MLP8527-334L         | 43              | 3300               | 6.56         | 0.23                | 0.11       |
| MLP8527-394L         | 44              | 3900               | 8.63         | 0.20                | 0.10       |
| MLP8527-474L         | 45              | 4700               | 10.1         | 0.19                | 0.09       |
| MLP8527-564L         | 46              | 5600               | 11.2         | 0.18                | 0.09       |
| MLP8527-684L         | 47              | 6800               | 15.0         | 0.15                | 0.08       |
| MLP8527-824L         | 48              | 8200               | 20.8         | 0.13                | 0.07       |
| MLP8527-105L         | 49              | 10000              | 23.4         | 0.12                | 0.06       |
| MLP8527-125L         | 50              | 12000              | 26.0         | 0.12                | 0.06       |
| MLP8527-155L         | 51              | 15000              | 36.0         | 0.10                | 0.05       |
| MLP8527-185L         | 52              | 18000              | 40.0         | 0.09                | 0.05       |

All part numbers provide 15% tolerance on inductance

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

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