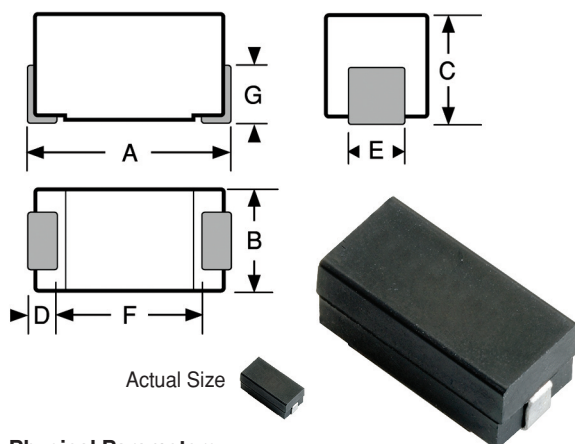


**SERIES****MIL4922**

Power Inductors

**MIL-PRF-27/367, T Level Qualified  
Surface Mount Power Inductors**
**Physical Parameters**

|   | Inches            | Millimeters      |
|---|-------------------|------------------|
| A | 0.490 to 0.520    | 12.44 to 13.21   |
| B | 0.230 to 0.250    | 5.84 to 6.35     |
| C | 0.210 to 0.230    | 5.33 to 5.84     |
| D | 0.050 Min.        | 1.27 Min.        |
| E | 0.055 to .075     | 1.40 to 1.91     |
| F | 0.330 (Ref. only) | 8.38 (Ref. only) |
| G | 0.120 (Ref. only) | 3.04 (Ref. only) |

Dimensions "A" and "C" are over terminals

**Military QPL Approval**

M27/367 T Level, Grade 5, encapsulated

**Level T Magnetics are 100% Tested per MIL-PRF-27 Group A Subgroup I which includes:**

- 1) Thermal Shock, 25 cycles
- 2) Burn In, 96 hours
- 3) Radiographic (X-Ray) Inspection

**Operating Temperature Range** -55°C to +130°C**Current Rating at 85°C Ambient** 45°C Rise**Maximum Power Dissipation at 85°C** 0.55 W**Inductance**

Measured at 1 VAC open circuit with no DC current

**Incremental Current** The current at which the inductance will decrease by a maximum of 5% from its initial DC value**Lead Finish**

Sn63 Pb37 (Tin-Lead), Hot Solder Dipped

**Weight** 1.5 grams MAX**DMV** 1000 Vrms at Sea Level

500 Vrms at 70,000 feet altitude

**IR** 1000 Mohms MIN at 500 Vdc**Vibration** MIL-STD-202, Method 204, Test Condition D**Moisture Resistance** MIL-STD-202, Method 106**Bond Strength** Force 2 lbs.**Marking**

Military PIN (Part or Identifying Number)

API Delevan Part Number

API Delevan Cage Code Date/Lot Code (YYWWL)

**Marking Example**

M27/367-38T

MIL4922-30LT

99800 1328A

**Packaging** Tape & reel (24mm): 13" reel, 800 pieces max.; 7" reel not available**Made In the U.S.A.**

DASH NUMBER\*  
MIL DASH  
INDUCTANCE @ 1 kHz  
(μH) ±15%  
DC RESISTANCE  
MAXIMUM (OHMS)  
CURRENT RATING  
MAXIMUM (Amps)  
INCREMENTAL  
CURRENT (Amps)

**M27/367 - SERIES MIL4922 T LEVEL FERRITE CORE**

|        |      |       |        |       |       |
|--------|------|-------|--------|-------|-------|
| -221LT | -01T | 0.22  | 0.0080 | 7.00  | 7.00  |
| -271LT | -02T | 0.27  | 0.0085 | 6.75  | 6.75  |
| -331LT | -03T | 0.33  | 0.0090 | 6.50  | 6.50  |
| -391LT | -04T | 0.39  | 0.0095 | 6.25  | 6.25  |
| -471LT | -05T | 0.47  | 0.0100 | 6.00  | 6.00  |
| -561LT | -06T | 0.56  | 0.0105 | 5.80  | 5.80  |
| -681LT | -07T | 0.68  | 0.0110 | 5.70  | 5.70  |
| -821LT | -08T | 0.82  | 0.0120 | 5.60  | 5.60  |
| -01LT  | -09T | 1.00  | 0.013  | 5.50  | 5.50  |
| -02LT  | -10T | 1.20  | 0.018  | 4.69  | 4.69  |
| -03LT  | -11T | 1.50  | 0.020  | 4.45  | 4.45  |
| -04LT  | -12T | 1.80  | 0.021  | 4.34  | 4.34  |
| -05LT  | -13T | 2.20  | 0.029  | 3.70  | 3.70  |
| -06LT  | -14T | 2.70  | 0.034  | 3.41  | 3.41  |
| -07LT  | -15T | 3.30  | 0.038  | 3.23  | 3.23  |
| -08LT  | -16T | 3.90  | 0.042  | 3.07  | 3.07  |
| -09LT  | -17T | 4.70  | 0.047  | 2.90  | 2.90  |
| -10LT  | -18T | 5.60  | 0.051  | 2.79  | 2.79  |
| -11LT  | -19T | 6.80  | 0.058  | 2.61  | 2.61  |
| -12LT  | -20T | 8.20  | 0.063  | 2.51  | 2.51  |
| -13LT  | -21T | 10.0  | 0.071  | 2.36  | 2.36  |
| -14LT  | -22T | 12.0  | 0.079  | 2.24  | 2.24  |
| -15LT  | -23T | 15.0  | 0.089  | 2.11  | 2.11  |
| -16LT  | -24T | 18.0  | 0.119  | 1.82  | 1.82  |
| -17LT  | -25T | 22.0  | 0.152  | 1.61  | 1.61  |
| -18LT  | -26T | 27.0  | 0.179  | 1.48  | 1.48  |
| -19LT  | -27T | 33.0  | 0.222  | 1.33  | 1.33  |
| -20LT  | -28T | 39.0  | 0.315  | 1.12  | 1.12  |
| -21LT  | -29T | 47.0  | 0.362  | 1.04  | 1.04  |
| -22LT  | -30T | 56.0  | 0.397  | 1.00  | 1.00  |
| -23LT  | -31T | 68.0  | 0.418  | 0.97  | 0.97  |
| -24LT  | -32T | 82.0  | 0.604  | 0.81  | 0.81  |
| -25LT  | -33T | 100   | 0.672  | 0.76  | 0.76  |
| -26LT  | -34T | 120   | 0.735  | 0.73  | 0.73  |
| -27LT  | -35T | 150   | 0.998  | 0.63  | 0.63  |
| -28LT  | -36T | 180   | 1.370  | 0.53  | 0.53  |
| -29LT  | -37T | 220   | 1.580  | 0.50  | 0.50  |
| -30LT  | -38T | 270   | 1.770  | 0.47  | 0.47  |
| -31LT  | -39T | 330   | 2.510  | 0.39  | 0.39  |
| -32LT  | -40T | 390   | 2.730  | 0.38  | 0.38  |
| -33LT  | -41T | 470   | 3.250  | 0.35  | 0.35  |
| -34LT  | -42T | 560   | 3.750  | 0.33  | 0.33  |
| -35LT  | -43T | 680   | 4.310  | 0.30  | 0.30  |
| -36LT  | -44T | 820   | 6.040  | 0.26  | 0.26  |
| -37LT  | -45T | 1000  | 6.900  | 0.24  | 0.24  |
| -38LT  | -46T | 1200  | 10.00  | 0.200 | 0.200 |
| -39LT  | -47T | 1500  | 12.50  | 0.178 | 0.178 |
| -40LT  | -48T | 1800  | 16.00  | 0.157 | 0.157 |
| -41LT  | -49T | 2200  | 20.00  | 0.141 | 0.141 |
| -42LT  | -50T | 2700  | 23.00  | 0.131 | 0.131 |
| -43LT  | -51T | 3300  | 25.00  | 0.126 | 0.126 |
| -44LT  | -52T | 3900  | 33.00  | 0.110 | 0.110 |
| -45LT  | -53T | 4700  | 37.00  | 0.103 | 0.103 |
| -46LT  | -54T | 5600  | 40.00  | 0.100 | 0.100 |
| -47LT  | -55T | 6800  | 62.00  | 0.080 | 0.080 |
| -48LT  | -56T | 8200  | 66.00  | 0.077 | 0.077 |
| -49LT  | -57T | 10000 | 74.00  | 0.071 | 0.071 |
| -50LT  | -58T | 12000 | 93.00  | 0.065 | 0.065 |
| -51LT  | -59T | 15000 | 105.0  | 0.061 | 0.061 |
| -52LT  | -60T | 18000 | 143.0  | 0.052 | 0.052 |
| -53LT  | -61T | 22000 | 160.0  | 0.050 | 0.050 |

\*Complete part # must include series # PLUS the dash #

**Mechanical Configuration** Units are encapsulated in a Surface Mount package, using an epoxy molded case. Leads are pretinned. A high resistivity ferrite core, allows for high inductance with low DC resistance.

# Mouser Electronics

Authorized Distributor

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