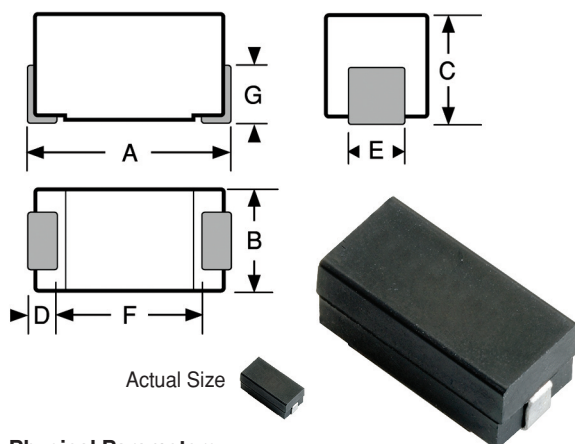


SERIES**MIL4922**

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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