

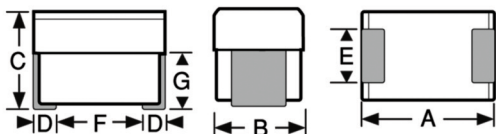
**SERIES**

**MILP1812**



**MIL-PRF-27/368, T Level Qualified Surface Mount Power Inductors**

DASH NUMBER\* MIL DASH  
 INDUCTANCE (μH) ±10% @ 1kHz  
 DC RESISTANCE MAXIMUM (OHMS)  
 CURRENT RATING MAXIMUM (mA DC)  
 CURRENT INCREMENTAL (mA DC)



**Physical Parameters**

	Inches	Millimeters
A	0.166 to 0.190	4.22 to 4.83
B	0.118 to 0.134	3.00 to 3.40
C	0.118 to 0.134	3.00 to 3.40
D	0.015 Min.	0.38 Min.
E	0.054 to 0.078	1.37 to 1.98
F	0.118 (Ref. only)	3.00 (Ref. only)
G	0.066 (Ref. only)	1.68 (Ref. only)

Dimensions "A" and "C" are over terminals

**Military QPL Approval**

M27/368 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 90°C Ambient** 40°C Rise

**Maximum Power Dissipation at 90°C** 0.278 W

**Inductance** Measured at 1VAC with no DC current

**Incremental Current** The current at which the inductance will decrease by a maximum of 5% from its inductance at zero DC current.

**Lead Finish**

Sn63 Pb37 (Tin-Lead)

Hot Solder Dipped

**Weight**

0.1 grams MAX

M27/368 - SERIES MILP1812 T LEVEL FERRITE CORE					
-102KT	-01T	1.0	0.113	1050	2400
-122KT	-02T	1.2	0.199	1000	2158
-152KT	-03T	1.5	0.222	950	1980
-182KT	-04T	1.8	0.240	900	1828
-222KT	-05T	2.2	0.268	850	1697
-272KT	-06T	2.7	0.288	800	1513
-332KT	-07T	3.3	0.323	750	1397
-392KT	-08T	3.9	0.347	700	1250
-472KT	-09T	4.7	0.401	650	1131
-562KT	-10T	5.6	0.437	650	1060
-682KT	-11T	6.8	0.472	600	990
-822KT	-12T	8.2	0.548	600	871
-103KT	-13T	10	0.608	550	772
-123KT	-14T	12	0.670	550	752
-153KT	-15T	15	0.780	450	693
-183KT	-16T	18	0.875	400	614
-223KT	-17T	22	1.200	370	515
-273KT	-18T	27	1.404	330	465
-333KT	-19T	33	1.578	300	425
-393KT	-20T	39	1.848	280	376
-473KT	-21T	47	2.064	260	366
-563KT	-22T	56	2.268	240	336
-683KT	-23T	68	3.408	220	297
-823KT	-24T	82	3.648	200	267
-104KT	-25T	100	4.320	180	238
-124KT	-26T	120	6.000	160	208
-154KT	-27T	150	6.432	140	183
-184KT	-28T	180	8.400	120	158
-224KT	-29T	220	9.680	120	143
-274KT	-30T	270	12.720	100	129
-334KT	-31T	330	15.240	90	118

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

**Mechanical Configuration** Inductors 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.

**DMV** 200 Vrms at Sea Level

80 Vrms at 70,000 feet altitude

**IR** 1000 Mohms MIN at 100 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 Suffix

API Delevan Cage Code Date/Lot Code (YYWWL)

**Marking Example**

M27/368-05T

222KT

99800 1345A

**Packaging** Tape & reel (12mm): 7" reel, 650 pieces max.;

13" reel, 2500 pieces max.

**Made In the U.S.A.**