

SERIES

MILP1812



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

DASH NUMBER*

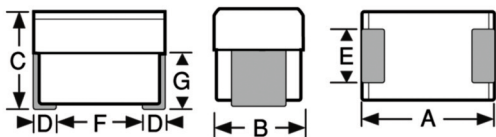
MIL DASH

INDUCTANCE (μH)
±10% @ 1kHz

DC RESISTANCE
MAXIMUM (OHMS)

CURRENT RATING
MAXIMUM (mA DC)

INCREMENTAL
CURRENT (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.

