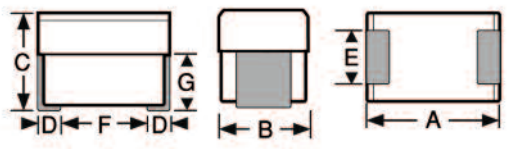


SERIES MILP1812

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



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

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

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.

Packaging Tape & reel (12mm): 7" reel, 650 pieces max.;
 13" reel, 2500 pieces max.

Made In the U.S.A.

DASH NUMBER*	MIL DASH	INDUCTANCE (μH) ±10% @ 1kHz	DC RESISTANCE MAXIMUM (OHMS)	CURRENT RATING MAXIMUM (mA DC)	INCREMENTAL CURRENT (mA DC)
M27/368 - SERIES MILP1812 T LEVEL FERRITE CORE					
-102	-01	1.0	0.113	1050	2400
-122	-02	1.2	0.199	1000	2158
-152	-03	1.5	0.222	950	1980
-182	-04	1.8	0.240	900	1828
-222	-05	2.2	0.268	850	1697
-272	-06	2.7	0.288	800	1513
-332	-07	3.3	0.323	750	1397
-392	-08	3.9	0.347	700	1250
-472	-09	4.7	0.401	650	1131
-562	-10	5.6	0.437	650	1060
-682	-11	6.8	0.472	600	990
-822	-12	8.2	0.548	600	871
-103	-13	10	0.608	550	772
-123	-14	12	0.670	550	752
-153	-15	15	0.780	450	693
-183	-16	18	0.875	400	614
-223	-17	22	1.200	370	515
-273	-18	27	1.404	330	465
-333	-19	33	1.578	300	425
-393	-20	39	1.848	280	376
-473	-21	47	2.064	260	366
-563	-22	56	2.268	240	336
-683	-23	68	3.408	220	297
-823	-24	82	3.648	200	267
-104	-25	100	4.320	180	238
-124	-26	120	6.000	160	208
-154	-27	150	6.432	140	183
-184	-28	180	8.400	120	158
-224	-29	220	9.680	120	143
-274	-30	270	12.720	100	129
-334	-31	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.

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

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
 0905A

How To Order:
MILP1812 -123 K T
 (A) (B) (C)(D)
 (A) Inductor Series (MILP1812)
 (B) Dash Number (-102 through -334)
 (C) Inductance Tolerance (K = 10%)
 (D) Product Level (T = T Level per MIL-PRF-27
 Blank = M Level per MIL-PRF-27)