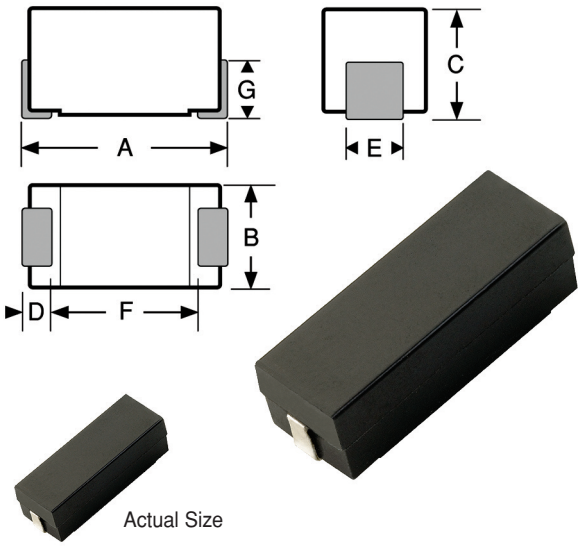
SERIES MIL8532

MIL-PRF-27/370, T Level Qualified Surface Mount Power Inductors



Actual Size

Physical Parameters

	Inches	Millimeters
A	0.840 to 0.880	21.34 to 22.35
B	0.310 to 0.330	7.87 to 8.38
C	0.266 to 0.286	6.76 to 7.26
D	0.050 Min.	1.27 Min.
E	0.070 to 0.110	1.78 to 2.79
F	0.750 (Ref. only)	19.05 (Ref. only)
G	0.120 (Ref. only)	3.05 (Ref. only)

Dimensions “A” and “C” are over terminals.

Military QPL Approval
M27/370 T Level, Grade 5, encapsulted
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 0.50 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 inductance at zero DC current.

Lead Finish
Sn63 Pb37 (Tin-Lead), Hot Solder Dipped
Weight 2.5 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.

Packaging Tape & reel (44mm): 13" reel, 480 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 DC (Amps)
M27/370 - SERIES MIL8532 T LEVEL FERRITE CORE					
-01LT	-01T	1.0	0.009	6.27	6.4
-02LT	-02T	1.2	0.010	5.95	5.8
-03LT	-03T	1.5	0.011	5.67	5.2
-04LT	-04T	1.8	0.012	5.43	4.8
-05LT	-05T	2.2	0.013	5.22	4.3
-06LT	-06T	2.7	0.014	5.03	3.9
-07LT	-07T	3.3	0.016	4.70	3.5
-08LT	-08T	3.9	0.017	4.56	3.2
-09LT	-09T	4.7	0.022	4.01	2.9
-10LT	-10T	5.6	0.024	3.84	2.7
-11LT	-11T	6.8	0.026	3.69	2.5
-12LT	-12T	8.2	0.028	3.55	2.2
-13LT	-13T	10.0	0.033	3.27	2.0
-14LT	-14T	12.0	0.037	3.09	1.8
-15LT	-15T	15.0	0.040	2.97	1.6
-16LT	-16T	18.0	0.044	2.84	1.5
-17LT	-17T	22.0	0.050	2.66	1.4
-18LT	-18T	27.0	0.070	2.25	1.2
-19LT	-19T	33.0	0.075	2.17	1.1
-20LT	-20T	39.0	0.084	2.05	1.0
-21LT	-21T	47.0	0.104	1.84	0.93
-22LT	-22T	56.0	0.130	1.65	0.85
-23LT	-23T	68.0	0.145	1.56	0.77
-24LT	-24T	82.0	0.152	1.53	0.71
-25LT	-25T	100.0	0.208	1.30	0.64
-26LT	-26T	120.0	0.283	1.12	0.58
-27LT	-27T	150.0	0.330	1.04	0.52
-28LT	-28T	180.0	0.362	0.99	0.48
-29LT	-29T	220.0	0.505	0.84	0.43
-30LT	-30T	270.0	0.557	0.80	0.39
-31LT	-31T	330.0	0.650	0.74	0.35
-32LT	-32T	390.0	0.770	0.68	0.32
-33LT	-33T	470.0	1.03	0.59	0.29
-34LT	-34T	560.0	1.14	0.56	0.27
-35LT	-35T	680.0	1.50	0.49	0.25
-36LT	-36T	820.0	1.98	0.42	0.22
-37LT	-37T	1000.0	2.30	0.39	0.20
-38LT	-38T	1200.0	2.55	0.37	0.18
-39LT	-39T	1500.0	3.00	0.34	0.16
-40LT	-40T	1800.0	4.00	0.30	0.15
-41LT	-41T	2200.0	4.40	0.28	0.14
-42LT	-42T	2700.0	5.80	0.25	0.12
-43LT	-43T	3300.0	6.56	0.23	0.11
-44LT	-44T	3900.0	8.63	0.20	0.10
-45LT	-45T	4700.0	10.1	0.19	0.09
-46LT	-46T	5600.0	11.2	0.18	0.09
-47LT	-47T	6800.0	15.0	0.15	0.08
-48LT	-48T	8200.0	20.8	0.13	0.07
-49LT	-49T	10000.0	23.4	0.12	0.06
-50LT	-50T	12000.0	26.0	0.12	0.06
-51LT	-51T	15000.0	36.0	0.10	0.05
-52LT	-52T	18000.0	40.0	0.09	0.05

*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.

Marking Delevan; military part no.; date code (YYWWL)
Example: MIL8532-01L
DELEVAN
M27/370-01
0610A

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