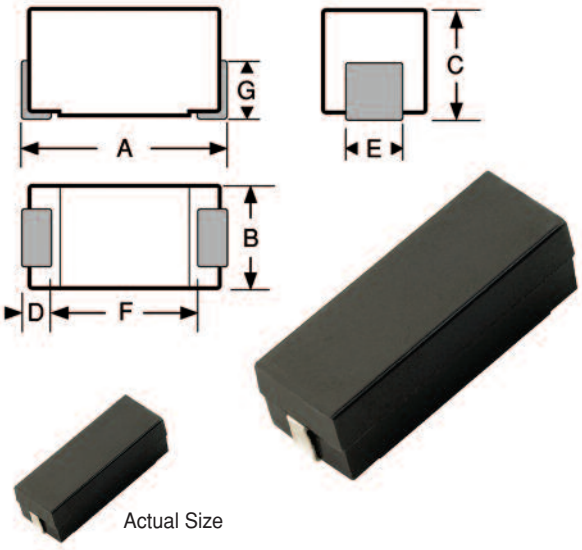
SERIES MIL8532

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

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

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

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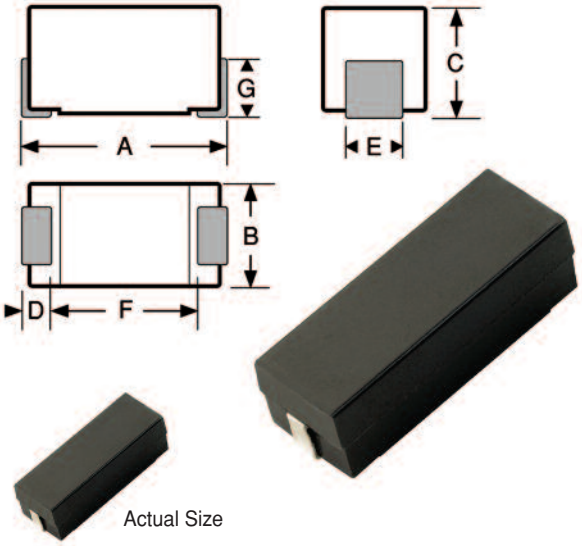

Actual Size

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

How to Order:

MIL8532 -33 L T
(A) (B) (C) (D)

(A) Inductor Series (MIL8532)
(B) Dash Number (-01 through -52)
(C) Inductance Tolerance (L = 15%)
(D) Product Level (T = T Level per MIL-PRF-27)
(Blank = M Level per MIL-PRF-27)

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.

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