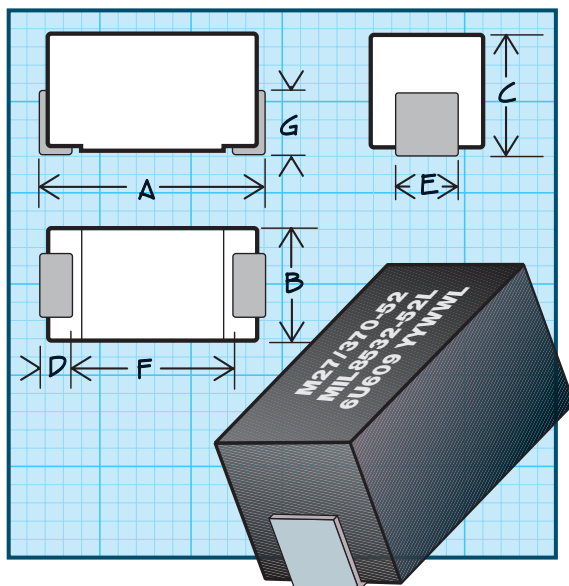


# Series MIL8532



## High Current, MIL-PRF-27/370 Qualified Surface Mount Power Inductors



### Mechanical Configuration

Units are encapsulated in a Surface Mount package, using an epoxy molded case. High resistivity ferrite core, allows for high inductance with low DC-resistance.

### 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** 45°C Rise over 85°C Ambient

**Maximum Power Dissipation at 85°C** 0.50 Watts

### 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.

**Weight Max.** (Grams) 2.5

**Packaging** Tape & reel (44mm):

13" reel, 480 pieces max.; 7" reel not available

**Lead Finish** Sn63Pb37

(Tin-Lead) Hot Solder Dipped

*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 (Amps)

### SERIES MIL8532 FERRITE CORE

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

\*Complete part # must include MIL8532 PLUS the dash #

POWER INDUCTORS