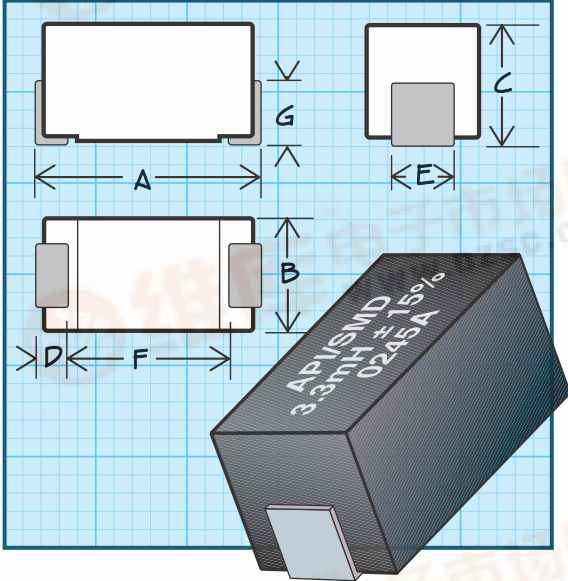


# Series 8532 High Current Surface Mount Power Inductors



### 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 +125°C

**Current Rating** 40°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 initial zero DC value.

**Weight Max.** (Grams) 2.5

**Packaging** Tape & reel (44mm):  
13" reel, 480 pieces max.; 7" reel not available

Made In the U.S.A. Patent Protected

PART NUMBER	INDUCTANCE @ 1 KHZ (µH) ± 15%	DC RESISTANCE MAXIMUM (OHMS)	CURRENT RATING MAXIMUM (Amps)	INCREMENTAL CURRENT (Amps)
<b>SERIES 8532 FERRITE CORE</b>				
8532-01L	1.0	0.009	6.27	6.4
8532-02L	1.2	0.010	5.95	5.8
8532-03L	1.5	0.011	5.67	5.2
8532-04L	1.8	0.012	5.43	4.8
8532-05L	2.2	0.013	5.22	4.3
8532-06L	2.7	0.014	5.03	3.9
8532-07L	3.3	0.016	4.70	3.5
8532-08L	3.9	0.017	4.56	3.2
8532-09L	4.7	0.022	4.01	2.9
8532-10L	5.6	0.024	3.84	2.7
8532-11L	6.8	0.026	3.69	2.5
8532-12L	8.2	0.028	3.55	2.2
8532-13L	10.0	0.033	3.27	2.0
8532-14L	12.0	0.037	3.09	1.8
8532-15L	15.0	0.040	2.97	1.6
8532-16L	18.0	0.044	2.84	1.5
8532-17L	22.0	0.050	2.66	1.4
8532-18L	27.0	0.070	2.25	1.2
8532-19L	33.0	0.075	2.17	1.1
8532-20L	39.0	0.084	2.05	1.0
8532-21L	47.0	0.104	1.84	0.93
8532-22L	56.0	0.130	1.65	0.85
8532-23L	68.0	0.145	1.56	0.77
8532-24L	82.0	0.152	1.53	0.71
8532-25L	100.0	0.208	1.30	0.64
8532-26L	120.0	0.283	1.12	0.58
8532-27L	150.0	0.330	1.04	0.52
8532-28L	180.0	0.362	0.99	0.48
8532-29L	220.0	0.505	0.84	0.43
8532-30L	270.0	0.557	0.80	0.39
8532-31L	330.0	0.650	0.74	0.35
8532-32L	390.0	0.770	0.68	0.32
8532-33L	470.0	1.03	0.59	0.29
8532-34L	560.0	1.14	0.56	0.27
8532-35L	680.0	1.50	0.49	0.25
8532-36L	820.0	1.98	0.42	0.22
8532-37L	1000.0	2.30	0.39	0.20
8532-38L	1200.0	2.55	0.37	0.18
8532-39L	1500.0	3.00	0.34	0.16
8532-40L	1800.0	4.00	0.30	0.15
8532-41L	2200.0	4.40	0.28	0.14
8532-42L	2700.0	5.80	0.25	0.12
8532-43L	3300.0	6.56	0.23	0.11
8532-44L	3900.0	8.63	0.20	0.10
8532-45L	4700.0	10.1	0.19	0.09
8532-46L	5600.0	11.2	0.18	0.09
8532-47L	6800.0	15.0	0.15	0.08
8532-48L	8200.0	20.8	0.13	0.07
8532-49L	10000.0	23.4	0.12	0.06
8532-50L	12000.0	26.0	0.12	0.06
8532-51L	15000.0	36.0	0.10	0.05
8532-52L	18000.0	40.0	0.09	0.05

**OPTIONAL TOLERANCES:**  
VALUES < 10µH: K=10% J=5%  
VALUES > 10µH: K=10% J=5% H=3%

