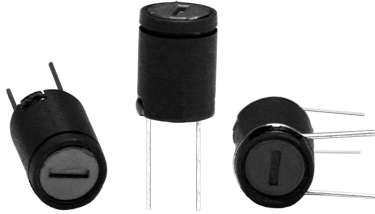


Inductors

Variable, Subminiature, Shielded



FEATURES

- Subminiature shielded adjustable inductor.
- High Q values.
- Vertical or horizontal mounting.
- Unitized epoxy-molded construction.
- Inductance range is 0.10 μ H to 100,000 μ H.
- 0.300" [7.62mm] diameter by 0.400" [10.16mm] length.
- Printed board mounting facilitated by 0.200" [5.08mm] grid spacing.
- Unit has shield construction to allow maximum density packaging.
- Accommodates close inductance adjustments in high density circuits that demand exceptional stability and high "Q" in the smallest size available.

ELECTRICAL SPECIFICATIONS

Adjustable Inductance Range: Tunable range; $\pm 5\%$ for 0.10 μ H to 1 μ H. $\pm 10\%$ for 1.2 μ H to 100,000 μ H.

Dielectric Strength: 840VRMS at sea level.

Working Voltage: 300VDC.

Rated Current: Based on temperature rise not to exceed 15°C at + 90°C ambient.

Incremental Current: The DC current required to cause a five percent reduction in the nominal inductance value.

Operating Temperature: - 55°C to + 105°C.

MECHANICAL SPECIFICATIONS

Tuning Tool: Use Vishay Dale No. 642866-01.

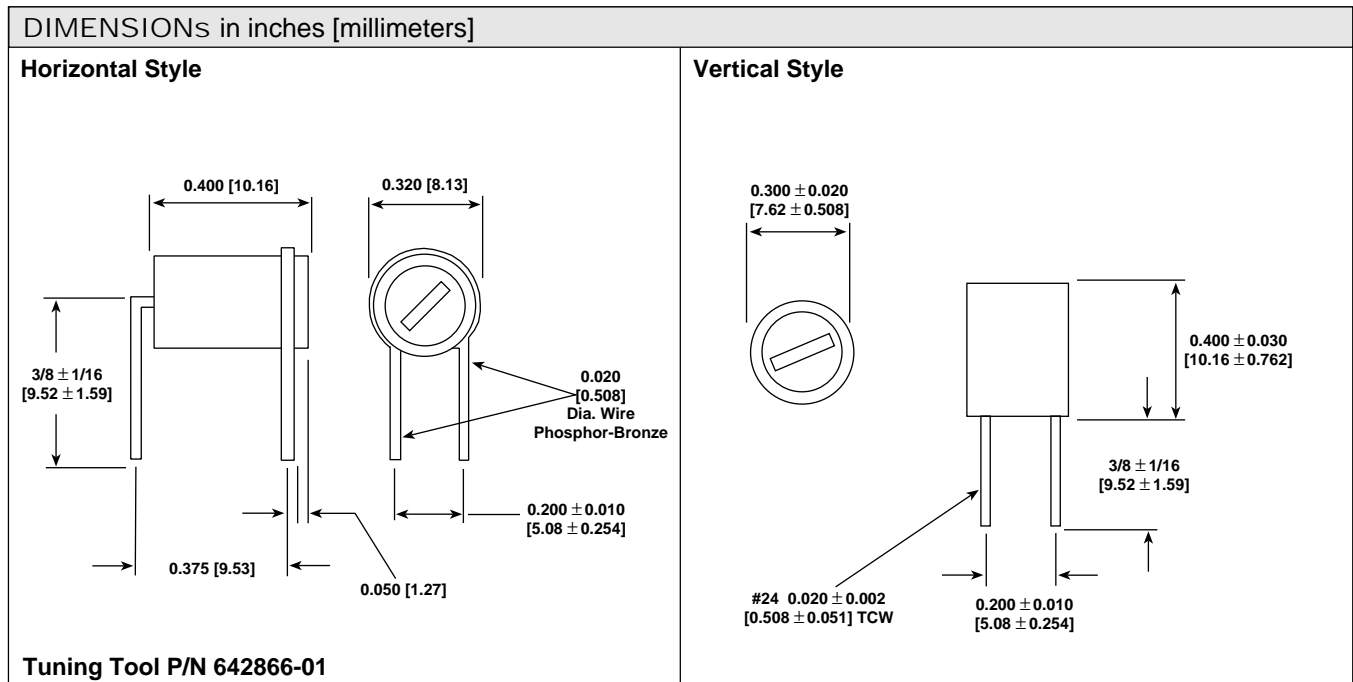
Torque: 0.40 to 6 inch-ounces.

Terminal Pull: 3 pounds.

DENSITY SPECIFICATIONS

Weight: 1.5 grams maximum.

Shielding: 3% coupling maximum when two units are tested side by side.



STANDARD ELECTRICAL SPECIFICATIONS								
IND. (μH)	TOL.	TUNABLE RANGE	Q MIN.	TEST FREQ. MIN. (MHz)	SELF-RESONANT FREQ. (MHz)	DCR (Ohms)	RATED DC CURRENT (mA)	INCREMENTAL CURRENT* (mA)
0.10	± 5%	± 5%	45	25	250	0.030	1510	—
0.12	± 5%	± 5%	45	25	250	0.030	1450	—
0.15	± 5%	± 5%	45	25	250	0.030	1400	—
0.18	± 5%	± 5%	45	25	250	0.035	1370	—
0.22	± 5%	± 5%	45	25	250	0.035	1340	—
0.27	± 5%	± 5%	51	25	250	0.040	1300	—
0.33	± 5%	± 5%	51	25	250	0.040	1260	—
0.39	± 5%	± 5%	51	25	210	0.045	1240	—
0.47	± 5%	± 5%	51	25	184	0.045	1200	—
0.56	± 5%	± 5%	51	25	176	0.050	1160	—
0.68	± 5%	± 5%	51	25	152	0.055	1100	—
0.82	± 5%	± 5%	55	25	144	0.060	1040	—
1.0	± 5%	± 5%	55	25	128	0.070	986	—
1.2	± 10%	± 10%	58	7.9	136	0.085	968	—
1.5	± 10%	± 10%	64	7.9	124	0.100	893	—
1.8	± 10%	± 10%	74	7.9	108	0.110	853	—
2.2	± 10%	± 10%	71	7.9	96	0.120	817	—
2.7	± 10%	± 10%	71	7.9	83.2	0.125	800	—
3.3	± 10%	± 10%	58	7.9	74.4	0.165	696	—
3.9	± 10%	± 10%	58	7.9	69.6	0.180	659	—
4.7	± 10%	± 10%	61	7.9	63.2	0.245	571	—
5.6	± 10%	± 10%	61	7.9	57.6	0.265	550	—
6.8	± 10%	± 10%	55	7.9	50.4	0.330	493	—
8.2	± 10%	± 10%	61	7.9	48.0	0.460	417	—
10	± 10%	± 10%	58	7.9	43.2	0.640	359	—
12	± 10%	± 10%	77	2.5	29.6	0.800	316	—
15	± 10%	± 10%	77	2.5	23.0	0.865	301	—
18	± 10%	± 10%	74	2.5	19.0	0.940	292	—
22	± 10%	± 10%	80	2.5	17.0	1.03	267	—
27	± 10%	± 10%	74	2.5	16.5	1.18	243	—
33	± 10%	± 10%	77	2.5	14.9	1.30	231	—
39	± 10%	± 10%	77	2.5	14.1	1.41	223	—
47	± 10%	± 10%	71	2.5	11.9	1.61	203	—
56	± 10%	± 10%	74	2.5	11.1	2.08	191	—
68	± 10%	± 10%	67	2.5	10.3	2.20	185	—
82	± 10%	± 10%	67	2.5	9.35	2.42	174	—
100	± 10%	± 10%	61	2.5	8.40	2.15	180	140
120	± 10%	± 10%	61	0.79	4.50	2.38	171	130
150	± 10%	± 10%	58	0.79	4.16	2.52	167	125
180	± 10%	± 10%	61	0.79	3.92	2.88	156	110
220	± 10%	± 10%	61	0.79	3.70	3.18	145	95
270	± 10%	± 10%	64	0.79	3.36	3.50	141	90
330	± 10%	± 10%	64	0.79	2.83	4.80	121	75
390	± 10%	± 10%	64	0.79	2.76	5.44	113	70
470	± 10%	± 10%	64	0.79	2.58	5.90	109	65
560	± 10%	± 10%	61	0.79	2.34	6.30	105	60
680	± 10%	± 10%	64	0.79	2.18	7.20	97	57
820	± 10%	± 10%	58	0.79	2.00	8.00	94	55
1000	± 10%	± 10%	64	0.79	1.88	12.0	76	43
1200	± 10%	± 10%	61	0.25	1.76	13.5	72	40
1500	± 10%	± 10%	58	0.25	1.52	16.5	65	37
1800	± 10%	± 10%	64	0.25	1.44	18.0	62	35
2200	± 10%	± 10%	64	0.25	1.36	20.5	58	34
2700	± 10%	± 10%	61	0.25	1.20	22.5	56	33
3300	± 10%	± 10%	58	0.25	1.12	42.0	41	25
3900	± 10%	± 10%	55	0.25	1.02	47.5	38	23
4700	± 10%	± 10%	55	0.25	0.994	53.0	36	20
5600	± 10%	± 10%	51	0.25	0.744	62.5	33	19
6800	± 10%	± 10%	48	0.25	0.632	69.5	32	18
8200	± 10%	± 10%	51	0.25	0.600	75.0	31	17
10000	± 10%	± 10%	45	0.25	0.560	100.0	26	15
12000	± 10%	± 10%	45	0.079	0.400	64	33	19
15000	± 10%	± 10%	45	0.079	0.304	84	29	17
18000	± 10%	± 10%	45	0.079	0.288	93	27	16
22000	± 10%	± 10%	45	0.079	0.256	104	26	15
27000	± 10%	± 10%	45	0.079	0.240	173	20	13
33000	± 10%	± 10%	45	0.079	0.216	187	19	12
39000	± 10%	± 10%	45	0.079	0.208	220	18	11
47000	± 10%	± 10%	45	0.079	0.200	253	17	10
56000	± 10%	± 10%	45	0.079	0.192	285	16	9
68000	± 10%	± 10%	39	0.079	0.160	311	15	8
82000	± 10%	± 10%	39	0.079	0.152	385	14	7
100000	± 10%	± 10%	39	0.079	0.136	420	13	6

*Incremental Current: The DC current required to cause a 5% reduction in the nominal inductance value.

MARKING
— Vishay Dale
— WVLM
— Value
— Date Code

ORDERING INFORMATION		
WVLM	0.10μH	± 5%
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE