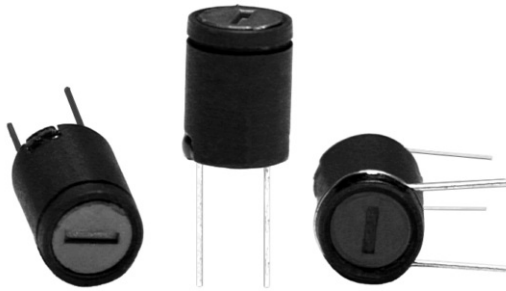


## Inductors, Variable, Subminiature, Shielded, Radial Leaded



### ELECTRICAL SPECIFICATIONS

**Adjustable Inductance Range:** Tunable range;  $\pm 5\%$  for 0.10  $\mu\text{H}$  to 1  $\mu\text{H}$ .  $\pm 10\%$  for 1.2  $\mu\text{H}$  to 1000  $\mu\text{H}$

**Dielectric Strength:** 840  $V_{\text{RMS}}$  at sea level

**Working Voltage:** 300  $V_{\text{DC}}$

**Maximum Current:** Based on temperature rise not to exceed 15  $^{\circ}\text{C}$  at +90  $^{\circ}\text{C}$  ambient

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

**Operating Temperature:** -55  $^{\circ}\text{C}$  to +105  $^{\circ}\text{C}$

### FEATURES

- Classification is grade 3, class A
- Subminiature shielded adjustable inductor
- High Q values
- Vertical or horizontal mounting
- Inductance range is 0.10  $\mu\text{H}$  to 1000  $\mu\text{H}$
- 0.300" [7.62 mm] diameter by 0.400" [10.16 mm] length
- Printed board mounting facilitated by 0.200" [5.08 mm] 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
- Compliant to RoHS directive 2002/95/EC



**RoHS**  
COMPLIANT

### MECHANICAL SPECIFICATIONS

**Tuning Tool:** Use number WVL-T or equal

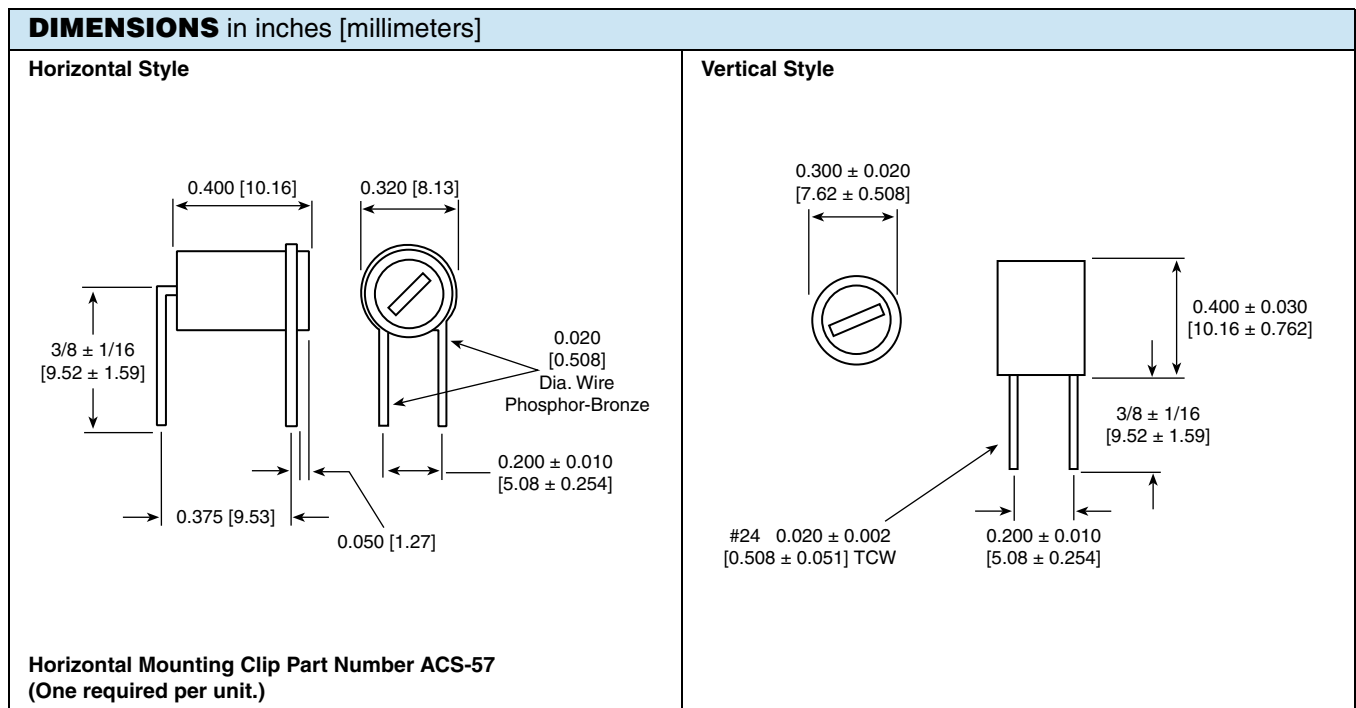
**Torque:** 0.40 to 6 inch-ounces

**Terminal Pull:** 3 pounds

### DENSITY SPECIFICATIONS

**Weight:** 1.5 g maximum

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



**STANDARD ELECTRICAL SPECIFICATIONS**

MODEL	INDUCTANCE NOM. ( $\mu$ H)	TURNABLE RANGE	Q MINIMUM	TEST FREQ. (MHz)	SELF-RESONANT FREQ. NOM. (MHz)	DCR MAXIMUM ( $\Omega$ )	RATED DC CURRENT (mA)	INCREMENTAL CURRENT (mA)
WVL	0.10	$\pm 5\%$	56	25	200	0.030	1510	-
WVL	0.12	$\pm 5\%$	56	25	200	0.030	1450	-
WVL	0.15	$\pm 5\%$	56	25	200	0.030	1400	-
WVL	0.18	$\pm 5\%$	56	25	200	0.035	1370	-
WVL	0.22	$\pm 5\%$	56	25	200	0.038	1340	-
WVL	0.27	$\pm 5\%$	64	25	200	0.040	1300	-
WVL	0.33	$\pm 5\%$	64	25	200	0.040	1260	-
WVL	0.39	$\pm 5\%$	64	25	200	0.045	1240	-
WVL	0.47	$\pm 5\%$	64	25	184	0.045	1200	-
WVL	0.56	$\pm 5\%$	64	25	176	0.050	1160	-
WVL	0.68	$\pm 5\%$	64	25	150	0.055	1100	-
WVL	0.82	$\pm 5\%$	68	25	144	0.060	1040	-
WVL	1.0	$\pm 5\%$	68	25	128	0.070	986	-
WVL	1.2	$\pm 10\%$	72	7.9	136	0.085	968	-
WVL	1.5	$\pm 10\%$	80	7.9	124	0.100	893	-
WVL	1.8	$\pm 10\%$	92	7.9	108	0.110	853	-
WVL	2.2	$\pm 10\%$	88	7.9	96	0.120	817	-
WVL	2.7	$\pm 10\%$	88	7.9	83	0.125	800	-
WVL	3.3	$\pm 10\%$	77	7.9	74	0.165	696	-
WVL	3.9	$\pm 10\%$	72	7.9	70	0.180	659	-
WVL	4.7	$\pm 10\%$	76	7.9	63	0.245	571	-
WVL	5.6	$\pm 10\%$	76	7.9	58	0.265	550	-
WVL	6.8	$\pm 10\%$	68	7.9	50	0.330	493	-
WVL	8.2	$\pm 10\%$	76	7.9	48	0.460	417	-
WVL	10	$\pm 10\%$	72	7.9	43	0.640	359	-
WVL	12	$\pm 10\%$	96	2.5	30	0.800	316	-
WVL	15	$\pm 10\%$	96	2.5	23	0.865	301	-
WVL	18	$\pm 10\%$	92	2.5	19	0.940	292	-
WVL	22	$\pm 10\%$	100	2.5	17	1.03	267	-
WVL	27	$\pm 10\%$	92	2.5	16	1.18	243	-
WVL	33	$\pm 10\%$	96	2.5	15	1.30	231	-
WVL	39	$\pm 10\%$	96	2.5	14	1.41	223	-
WVL	47	$\pm 10\%$	88	2.5	12	1.61	203	-
WVL	56	$\pm 10\%$	92	2.5	11	2.08	191	-
WVL	68	$\pm 10\%$	84	2.5	10	2.20	185	-
WVL	82	$\pm 10\%$	84	2.5	9	2.42	174	-
WVL	100	$\pm 10\%$	76	2.5	8.4	2.15	333	333
WVL	120	$\pm 10\%$	76	0.79	4.5	2.38	316	190
WVL	150	$\pm 10\%$	72	0.79	4.0	2.52	306	175
WVL	180	$\pm 10\%$	76	0.79	3.9	2.88	288	150
WVL	220	$\pm 10\%$	76	0.79	3.7	3.18	273	125
WVL	270	$\pm 10\%$	80	0.79	3.4	3.50	260	120
WVL	330	$\pm 10\%$	80	0.79	2.8	4.80	222	110
WVL	390	$\pm 10\%$	80	0.79	2.7	5.44	209	105
WVL	470	$\pm 10\%$	80	0.79	2.6	5.90	201	100
WVL	560	$\pm 10\%$	76	0.79	2.3	6.30	194	90
WVL	680	$\pm 10\%$	80	0.79	2.2	7.20	181	80
WVL	820	$\pm 10\%$	72	0.79	2.0	8	172	70
WVL	1000	$\pm 10\%$	80	0.79	1.9	12	141	65

**MARKING**

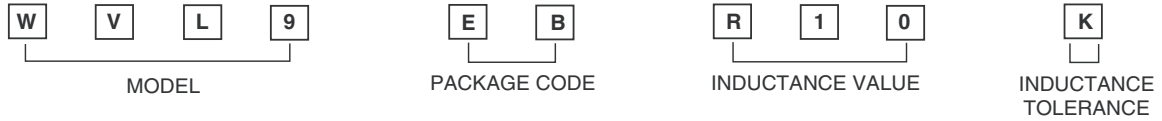
- Manufacturer data printed



**ORDERING INFORMATION**

<b>WVL</b>	<b>0.10 <math>\mu</math>H</b>	<b>5 %</b>	<b>EB</b>	<b>e2</b>
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

**GLOBAL PART NUMBER**





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