

Vishay Dale

# Inductors, Variable, Subminiature, Shielded, Radial Leaded



### **ELECTRICAL SPECIFICATIONS**

Adjustable inductance range: tunable range;  $\pm$  5 % for 0.10 µH to 1 µH.  $\pm$  10 % for 1.2 µH to 1000 µH

**Dielectric strength:** 840 V<sub>RMS</sub> at sea level

Working voltage: 300 V<sub>DC</sub>

**Maximum 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  $^{\circ}$ C to +105  $^{\circ}$ C

#### **DENSITY SPECIFICATIONS**

Weight: 1.5 g maximum

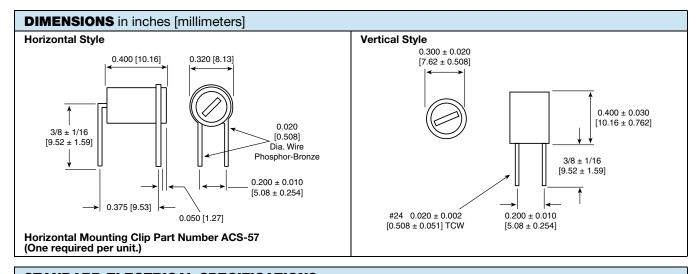
Shielding: 3 % coupling maximum when two units are tested side by side

## FEATURES

- Classification is grade 3, class A
- · Subminiature shielded adjustable inductor
- High Q values
- Vertical or horizontal mounting
- Inductance range is 0.10  $\mu H$  to 1000  $\mu H$
- 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
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

### MECHANICAL SPECIFICATIONS

Tuning tool: use number WVL-T or equal Torque: 0.40 inch-ounces to 6 inch-ounces Terminal pull: 3 pounds



STANDARD ELECTRICAL SPECIFICATIONS									
MODEL	IND. (µH)	TOL. (%)	Q TYP.	TEST FREQUENCY (MHz)	SRF NOM. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA)	INCREMENTAL CURRENT (mA)	
WVL	0.10	± 5	56	25	200	0.030	1510	-	
WVL	0.12	± 5	56	25	200	0.030	1450	-	
WVL	0.15	± 5	56	25	200	0.030	1400	-	
WVL	0.18	± 5	56	25	200	0.035	1370	-	
WVL	0.22	± 5	56	25	200	0.038	1340	-	
WVL	0.27	± 5	64	25	200	0.040	1300	-	
WVL	0.33	± 5	64	25	200	0.040	1260	-	
WVL	0.39	± 5	64	25	200	0.045	1240	-	
WVL	0.47	± 5	64	25	184	0.045	1200	-	
WVL	0.56	± 5	64	25	176	0.050	1160	-	
WVL	0.68	± 5	64	25	150	0.055	1100	-	
WVL	0.82	± 5	68	25	144	0.060	1040	-	

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1 For technical questions, contact: <u>magnetics@vishay.com</u> Document Number: 34086

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## WVL Vishay Dale

			-	CAL SPECIFICAT				
IODEL	IND. (µH)	TOL. (%)	Q TYP.	TEST FREQUENCY (MHz)	SRF NOM. (MHz)	DCR MAX. (Ω)	RATED DC CURREN (mA)	T INCREMENTAL CURREN (mA)
/VL	1.0	± 5	68	25	128	0.070	986	-
/VL	1.2	± 10	72	7.9	136	0.085	968	-
/VL	1.5	± 10	80	7.9	124	0.100	893	-
/VL	1.8	± 10	92	7.9	108	0.110	853	-
/VL	2.2	± 10	88	7.9	96	0.120	817	-
VL	2.7	± 10	88	7.9	83	0.125	800	_
/VL	3.3	± 10	77	7.9	74	0.165	696	-
VL	3.9	± 10	72	7.9	70	0.180	659	-
VL	4.7	± 10	76	7.9	63	0.245	571	-
VL	5.6	± 10	76	7.9	58	0.265	550	-
'VL	6.8	± 10	68	7.9	50	0.330	493	-
VL	8.2	± 10	76	7.9	48	0.460	417	-
VL	10	± 10	72	7.9	43	0.640	359	-
VL	12	± 10	96	2.5	30	0.800	316	-
VL	15	± 10	96	2.5	23	0.865	301	-
VL	18	± 10	92	2.5	19	0.940	292	-
VL	22	± 10	100	2.5	17	1.03	267	-
VL	27	± 10	92	2.5	16	1.18	243	-
VL	33	± 10	96	2.5	15	1.30	231	-
VL	39	± 10	96	2.5	14	1.41	223	-
VL	47	± 10	88	2.5	12	1.61	203	-
VL	56	± 10	92	2.5	11	2.08	191	-
VL	68	$\pm 10$ $\pm 10$	84	2.5	10	2.20	185	-
VL	82	± 10	84	2.5	9	2.42	174	-
VL	100	± 10	76	2.5	8.4	2.15	333	333
VL.	120	± 10	76	0.79	4.5	2.38	316	190
VL	150	± 10	72	0.79	4.0	2.52	306	175
VL	180	± 10	76	0.79	3.9	2.88	288	150
VL.	220	± 10	76	0.79	3.7	3.18	273	125
VL	270	± 10	80	0.79	3.4	3.50	260	120
VL	330	± 10	80	0.79	2.8	4.80	222	110
/VL	390	± 10	80	0.79	2.7	5.44	209	105
/VL	470	± 10	80	0.79	2.6	5.90	201	100
/VL	560	± 10	76	0.79	2.3	6.30	194	90
/VL	680	± 10	80	0.79	2.2	7.20	181	80
/VL	820	± 10	72	0.79	2.0	8	172	70
/VL	1000	± 10	80	0.79	1.9	12	141	65
Manufac		oto prin	tod					
	RING			TION - VERTICA				
WVL		0.10	-		%		EB	e2
ODEL	INDU	JCTAN	CE VAL	UE INDUCTANCE	ETOLERANC	E PACKA	GE CODE JEDEC	<sup>®</sup> LEAD (Pb)-FREE STANDARE
LOBA		RT N	UMB	ER - VERTICAL S	STYLE			
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VL-H	Dime	0.10			WAL SIT		EB	e2
ODEL	INDU	JCTAN	JE VAL	UE INDUCTANCE		E PACKA	GE CODE JEDEC	<sup>®</sup> LEAD (Pb)-FREE STANDARD
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