

Models VIV and VIH

Vishay Dale



Inductors, Variable, Miniature



ELECTRICAL SPECIFICATIONS

Adjustable Inductance Range: Tunable range: $\pm 20\%$ for 0.33 μH to 4700 μH . $\pm 15\%$ for 0.15 μH to 0.22 μH .

$\pm 10\%$ for 0.10 μH . All measurements at $+25^\circ\text{C}$ on Q-Meter

Operating Temperature: -55°C to $+125^\circ\text{C}$

Self-Resonant Frequency: Minimum SRF measured with Grid-Dip Meter

FEATURES

- Classification is Grade 2, Class B
- Encapsulated in epoxy resin for reliability
- High reliability and exceptional stability over extreme temperature variations
- Miniature - small lightweight unit in vertical and horizontal styles to facilitate PC board mounting



RoHS
COMPLIANT

MECHANICAL SPECIFICATIONS

Tuning Tool: 642867-01 or equal

Torque: 0.75 to 5 inch-ounces

Terminal Solderability: Meets 5 pound pull test

Core Material: Iron

DENSITY SPECIFICATIONS

Weight: 2.6 grams maximum

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	INDUCTANCE NOM. (μH)	TUNABLE RANGE	Q (Min.)	TEST FREQUENCY (MHz)	SRF (Min.) (MHz)	DCR (Max.) (Ohms)	RATED DC CURRENT (mA)
VIV-VIH	0.10	$\pm 10\%$	68	25	300	0.02	3500
VIV-VIH	0.15	$\pm 15\%$	80	25	300	0.035	2600
VIV-VIH	0.22	$\pm 15\%$	80	25	300	0.04	2500
VIV-VIH	0.33	$\pm 20\%$	80	25	267	0.04	2500
VIV-VIH	0.47	$\pm 20\%$	80	25	228	0.05	2200
VIV-VIH	0.68	$\pm 20\%$	80	25	190	0.07	1850
VIV-VIH	1.0	$\pm 20\%$	72	25	164	0.13	1350
VIV-VIH	1.5	$\pm 20\%$	56	7.9	134	0.24	1000
VIV-VIH	2.2	$\pm 20\%$	58	7.9	108	0.30	890
VIV-VIH	3.3	$\pm 20\%$	64	7.9	90	0.45	730
VIV-VIH	4.7	$\pm 20\%$	60	7.9	80	0.80	550
VIV-VIH	6.8	$\pm 20\%$	64	7.9	64	1.1	460
VIV-VIH	10.0	$\pm 20\%$	66	7.9	54	1.9	355
VIV-VIH	15.0	$\pm 20\%$	52	2.5	43	3.2	270
VIV-VIH	22.0	$\pm 20\%$	44	2.5	14	3.4	265
VIV-VIH	33.0	$\pm 20\%$	43	2.5	12	3.6	255
VIV-VIH	47.0	$\pm 20\%$	41	2.5	10.5	4.5	230
VIV-VIH	68.0	$\pm 20\%$	44	2.5	9.5	5.5	210
VIV-VIH	100.0	$\pm 20\%$	40	2.5	8.5	6.7	190
VIV-VIH	150.0	$\pm 20\%$	40	0.79	2.4	11	150
VIV-VIH	220.0	$\pm 20\%$	40	0.79	2.2	13	135
VIV-VIH	330.0	$\pm 20\%$	38	0.79	1.8	16	120
VIV-VIH	470.0	$\pm 20\%$	36	0.79	1.5	18	115
VIV-VIH	680.0	$\pm 20\%$	34	0.79	1.4	21	105
VIV-VIH	1000.0	$\pm 20\%$	32	0.79	1.1	38	80
VIV-VIH	1500.0	$\pm 20\%$	32	0.25	0.90	54	65
VIV-VIH	2200.0	$\pm 20\%$	35	0.25	0.80	66	60
VIV-VIH	3300.0	$\pm 20\%$	37	0.25	0.70	85	54
VIV-VIH	4700.0	$\pm 20\%$	38	0.258	0.60	99	49



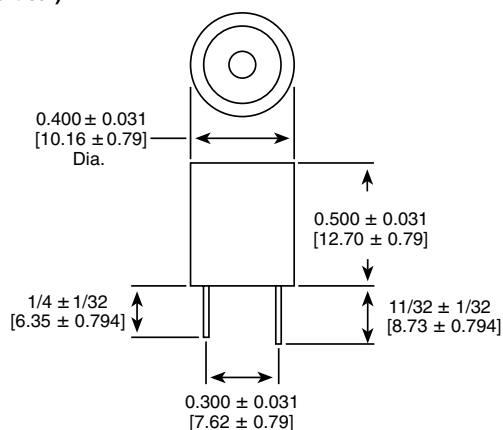
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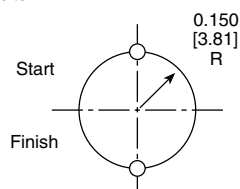
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DIMENSIONAL CONFIGURATIONS in inches [millimeters]

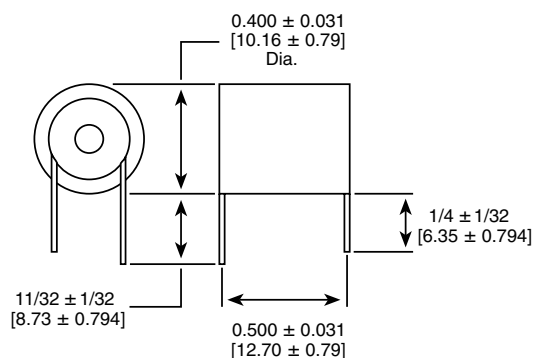
VIV (Vertical)



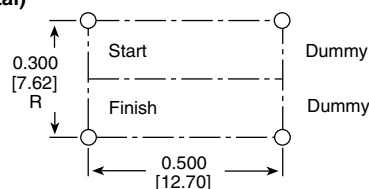
Mounting Plate Data VIV (Vertical)



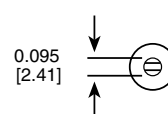
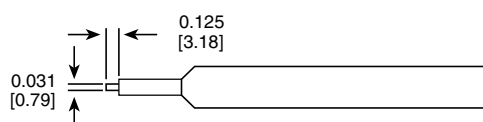
VIH (Horizontal)



Mounting Plate Data VIH (Horizontal)



Tuning Tool Number 642867-01



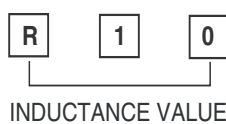
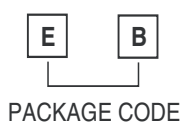
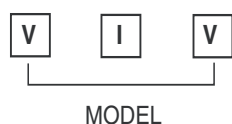
PART MARKING

- Manufacturer data printed

ORDERING INFORMATION

VIV MODEL	0.10 μ H INDUCTANCE VALUE	10 % INDUCTANCE TOLERANCE	EB PACKAGE CODE	e2 JEDEC LEAD (Pb)-FREE STANDARD
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GLOBAL PART NUMBER





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