

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 $+25\text{ }^{\circ}\text{C}$ on Q-Meter

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

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

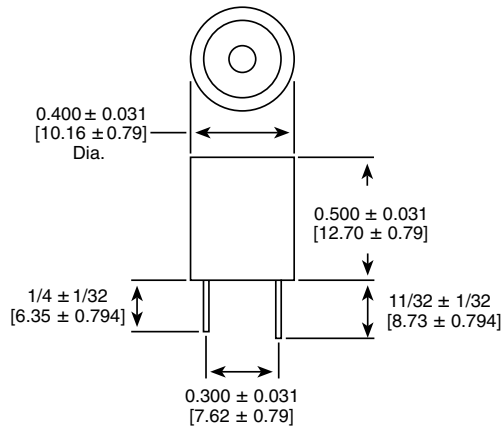
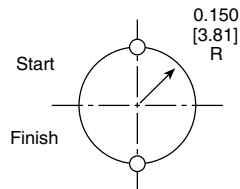
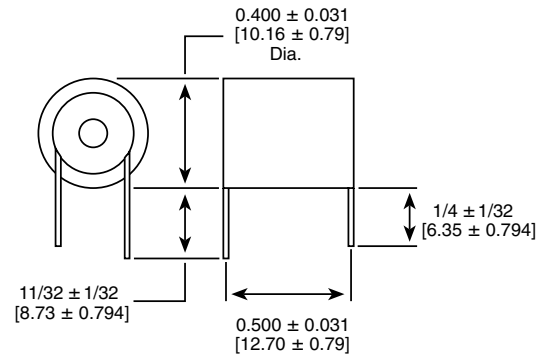
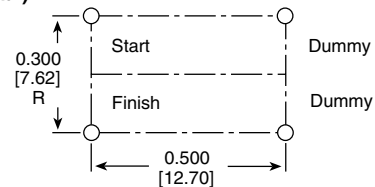
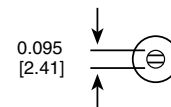
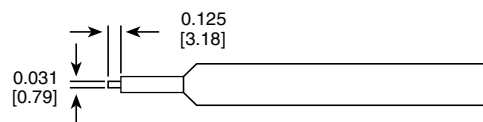
Core Material: Iron

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

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

GLOBAL PART NUMBER

V I V
MODEL

E B
PACKAGE CODE

R 1 0
INDUCTANCE VALUE

K
INDUCTANCE TOLERANCE



Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.