Molded Inductors, Axial Leads, High Frequency and Noise Suppression Applications



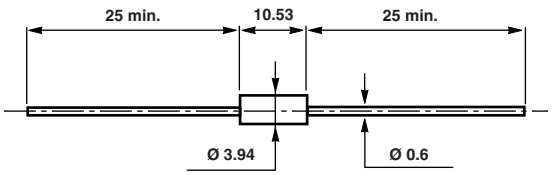
FEATURES

- Accurate dimensions
- Superior moisture protection
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

RoHS COMPLIANT

The inductors have copper winding on magnetic core structure.

DIMENSIONS in millimeters (± 0.5)



STANDARD ELECTRICAL SPECIFICATIONS

MODEL	INDUCTANCE RANGE µH	RATED POWER $P_{70\,°C}$ W	LIMITING ELEMENT VOLTAGE V_{RMS}	TOLERANCE (1) ± %	Q RANGE	I RANGE mA
TR022	0.1 to 1000	0.180	500	10	35 to 60	94 to 2600

Note

(1) ± 10 % for 0.1 µH < L ≤ 1000 µH . On request: ± 5 % and ± 2 % for 1 µH < L ≤ 1000 µH

MECHANICAL SPECIFICATIONS

Coating	Molded epoxy
Weight	0.78 g

PACKAGING

Standard: in tape and reel of 1000 pieces, code R15 (R)
On request: 250 pieces tape in box “ammopack”, code A15 (B)

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range	0 °C to +70 °C
Temperature limits	-55 °C to +125 °C

MARKING

Standard:
print marked-manufacturer, inductance value, tolerance

ORDERING INFORMATION (part number)

T	R	0	2	2	R	3	9	K	A	1	5						

MODEL	STYLE	VALUE	TOLERANCE	PACKAGING	SPECIAL
TR	**022**	From 0.1 µH to 1000 µH **R39** = 0.39 µH	**K**: ± 10 % On request: **G**: ± 2 % **J**: ± 5 %	**R15** = reel 1000 pieces On request: **A15** = ammopack 250 pieces	Special code given by Vishay

PART NUMBER DESCRIPTION (for information only)

TR	022	µH39	10 %	B		e1
MODEL	STYLE	VALUE	TOLERANCE	PACKAGING	SPECIAL	LEAD (Pb)-FREE

For technical questions, contact: sferaztronics@vishay.com

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STANDARD VALUES

INDUCTANCE VALUE µH	TOLERANCE %	Q MIN.	TEST FREQUENCY MHz	RESISTANCE MAX. Ω	SRF MIN. MHz	I MAX. mA
0.10	± 10	35	25	0.027	550	2600
0.12	± 10	35	25	0.029	530	2490
0.15	± 10	35	25	0.030	525	2450
0.18	± 10	35	25	0.042	500	2070
0.22	± 10	35	25	0.050	450	1900
0.27	± 10	35	25	0.075	410	1550
0.33	± 10	35	25	0.090	370	1400
0.39	± 10	35	25	0.10	310	1330
0.47	± 10	35	25	0.12	260	1225
0.56	± 10	35	25	0.14	250	1130
0.68	± 10	35	25	0.15	240	1100
0.82	± 10	35	25	0.22	220	900
1	± 10	35	25	0.24	200	860
1.2	± 10	35	7.9	0.20	170	950
1.5	± 10	35	7.9	0.21	150	925
1.8	± 10	35	7.9	0.23	135	885
2.2	± 10	35	7.9	0.24	125	865
2.7	± 10	35	7.9	0.21	110	925
3.3	± 10	35	7.9	0.25	105	850
3.9	± 10	35	7.9	0.27	95	815
4.7	± 10	35	7.9	0.29	90	790
5.6	± 10	35	7.9	0.32	60	750
6.8	± 10	35	7.9	0.47	55	630
8.2	± 10	35	7.9	0.57	50	560
10	± 10	40	7.9	0.90	45	445
12	± 10	50	2.5	1.10	40	400
15	± 10	50	2.5	1.30	38	370
18	± 10	55	2.5	2	34	300
22	± 10	60	2.5	2.2	30	275
27	± 10	60	2.5	2.6	25	260
33	± 10	60	2.5	2.65	22	255
39	± 10	60	2.5	2.70	18	250
47	± 10	60	2.5	2.90	15	245
56	± 10	60	2.5	3.10	14	240
68	± 10	55	2.5	3.40	12	230
82	± 10	55	2.5	3.90	11	215
100	± 10	55	2.5	4.50	10	200
120	± 10	55	0.79	5.20	9	185
150	± 10	55	0.79	5.80	8	175
180	± 10	55	0.79	6.50	7	165
220	± 10	55	0.79	7.20	6	158
240	± 10	55	0.79	7.40	6	155
270	± 10	55	0.79	8	5.7	150
330	± 10	55	0.79	9	5.5	140
390	± 10	55	0.79	10	5.3	135
470	± 10	55	0.79	15	5	110
560	± 10	55	0.79	15.5	4	108
680	± 10	55	0.79	16.5	3.8	104
820	± 10	55	0.79	18	3.6	100
1000	± 10	55	0.79	20	3.2	94

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