

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



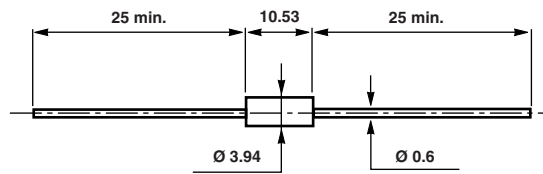
### FEATURES

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


**RoHS  
COMPLIANT**

The inductors have copper winding on magnetic core structure.

### DIMENSIONS in millimeters ( $\pm 0.5$ )



### STANDARD ELECTRICAL SPECIFICATIONS

MODEL	INDUCTANCE RANGE $\mu\text{H}$	RATED POWER $P_{70^\circ\text{C}}$ W	LIMITING ELEMENT VOLTAGE $V_{\text{RMS}}$	TOLERANCE <sup>(1)</sup> $\pm \%$	Q RANGE	I RANGE mA
TR022	0.1 to 1000	0.180	500	10	35 to 60	94 to 2600

**Note**

<sup>(1)</sup>  $\pm 10 \%$  for  $0.1 \mu\text{H} < L \leq 1000 \mu\text{H}$ . On request:  $\pm 5 \%$  and  $\pm 2 \%$  for  $1 \mu\text{H} < L \leq 1000 \mu\text{H}$

### 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	$0^\circ\text{C}$ to $+70^\circ\text{C}$
Temperature limits	$-55^\circ\text{C}$ to $+125^\circ\text{C}$

### 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 $\mu\text{H}$ to 1000 $\mu\text{H}$ R39 = 0.39 $\mu\text{H}$			K: $\pm 10 \%$ On request: G: $\pm 2 \%$ J: $\pm 5 \%$		R15 = reel 1000 pieces On request: A15 = ammopack 250 pieces			Special code given by Vishay				

### PART NUMBER DESCRIPTION (for information only)

TR	022	$\mu\text{H}39$	10 %	B		e1
MODEL	STYLE	VALUE	TOLERANCE	PACKAGING	SPECIAL	LEAD (Pb)-FREE



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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