

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

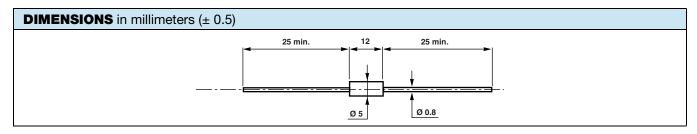
FEATURES

- · Accurate dimensions
- Superior moisture protection



• Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

These inductors have copper winding on magnetic core structure.



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
TR023	0.15 to 1000	0.300	500	10	20 to 50	120 to 3160

Note

 $^{(1)}~\pm$ 10 % for 0.15 $\mu H < L \le$ 1000 μH . On request: \pm 5 % and \pm 2 % for 1 $\mu H < L \le$ 1000 μH

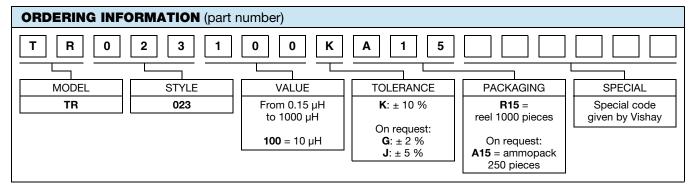
MECHANICAL SPECIFICATIONS				
Coating	Molded epoxy			
Weight	1.3 g			

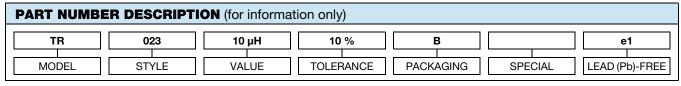
ENVIRONMENTAL SPE	INVIRONMENTAL SPECIFICATIONS				
Operating temperature range	0 °C to +70 °C				
Temperature limits	-55 °C to +125 °C				

PACKAGING

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

MARKING
Standard:
print marked-manufacturer, inductance value, tolerance







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STANDARD VALUES							
INDUCTANCE VALUE µH	TOLERANCE %	Q MIN.	TEST FREQUENCY MHz	RESISTANCE MAX. Ω	SRF MIN. MHz	I MAX. mA	
0.15	± 10	40	25	0.030	500	3160	
0.18	± 10	40	25	0.032	410	3060	
0.22	± 10	40	25	0.035	400	2920	
0.27	± 10	40	25	0.050	380	2440	
0.33	± 10	40	25	0.065	340	2150	
0.39	± 10	40	25	0.075	320	2000	
0.47	± 10	40	25	0.085	300	1870	
0.56	± 10	40	25	0.14	250	1470	
0.68	± 10	40	25	0.15	230	1415	
0.82	± 10	35	25	0.22	220	1165	
1	± 10	35	25	0.30	190	1000	
1.2	± 10	20	7.9	0.40	180	870	
1.5	± 10	20	7.9	0.42	170	850	
1.8	± 10	20	7.9	0.65	150	680	
2.2	± 10	20	7.9	0.79	135	620	
2.7	± 10	20	7.9	1.20	120	500	
3.3	± 10	25	7.9	0.14	75	1465	
3.9	± 10	25	7.9	0.15	55	1415	
4.7	± 10	25	7.9	0.21	50	1200	
5.6	± 10	25	7.9	0.28	50	1035	
6.8	± 10	25	7.9	0.37	50	900	
8.2	± 10	25	7.9	0.44	45	825	
10	± 10	25	7.9	0.60	33	700	
12	± 10	40	2.5	1	33	545	
15	± 10	35	2.5	1.30	30	480	
18	± 10	50	2.5	1.10	35	510	
22	± 10	50	2.5	1.20	30	500	
27	± 10	50	2.5	1.30	22	480	
33	± 10	50	2.5	1.50	20	430	
39	± 10	50	2.5	1.70	18	430	
47	± 10	50	2.5	2.10	17	375	
56	± 10	50	2.5	2.35	14	355	
68	± 10	50	2.5	2.80	12	325	
82	± 10	50	2.5	3.30	11	300	
100	± 10	50	2.5	3.60	10	285	
120	± 10	50	0.79	5	6.5	245	
150	± 10	50	0.79	6.1	5.5	220	
180	± 10	50	0.79	7.5	5.5	200	
220	± 10	50	0.79	8.4	5.5	185	
270	± 10	50	0.79	9	5	180	
330	± 10	50	0.79	10	4.5	170	
390	± 10	50	0.79	11	4.3	165	
470	± 10	50	0.79	12	4.5	155	
560	± 10	50	0.79	13	3.5	150	
680	± 10	50	0.79	14	3.3	145	
820			0.79				
1000	± 10 ± 10	50 50	0.79	16 17	3 2.6	135 120	

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