### **TR021**

Vishay Sfernice



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



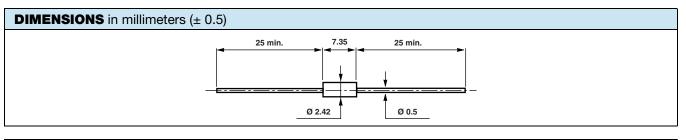
### FEATURES

Accurate dimensionsSuperior moisture protection



 Material categorization: for definitions of <sup>COMPLIANT</sup> compliance please see <u>www.vishay.com/doc?99912</u>

The inductors have copper winding on magnetic core structure.



STANDARD ELECTRICAL SPECIFICATIONS						
MODEL	INDUCTANCE RANGE µH	RATED POWER P <sub>70 °C</sub> W	LIMITING ELEMENT VOLTAGE V <sub>RMS</sub>	TOLERANCE <sup>(1)</sup> ± %	Q RANGE	I RANGE mA
TR021	0.022 to 1500	0.180	500	10	15 to 40	45 to 2530

Note

 $^{(1)}\,\pm 10$  % for 0.022  $\mu H < L \le 1500$   $\mu H$  . On request:  $\pm 5$  % and  $\pm 2$  % for 1  $\mu H < L \le 1000$   $\mu H$ 

MECHANICAL SPECIFICATIONS					
Coating	Molded epoxy				
Weight	0.5 g				

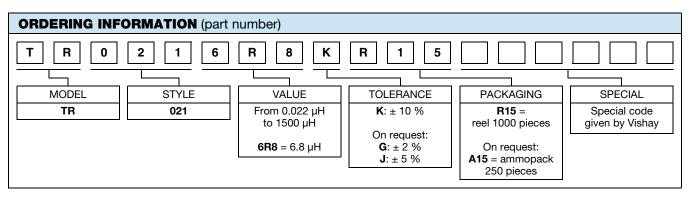
ENVIRONMENTAL SPECIFICATIONS					
Operating temperature range	0 °C to +70 °C				
Temperature limits	-55 °C to +125 °C				

#### PACKAGING

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

#### MARKING

print marked-manufacturer, inductance value, tolerance



PART NUMBER DESCRIPTION (for information only)						
TR	021	6µH8	10 %	R		e1
MODEL	STYLE	VALUE	TOLERANCE	PACKAGING	SPECIAL	LEAD (Pb)-FREE

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1 For technical questions, contact: <u>sferaztronics@vishay.com</u> Document Number: 59007

Standard:



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	ALUES					
INDUCTANCE VALUE µH	TOLERANCE %	Q MIN.	TEST FREQUENCY MHz	RESISTANCE MAX. Ω	SRF MIN. MHz	l MAX. mA
0.022	± 10	35	50	0.028	650	2530
0.027	± 10	35	50	0.030	650	2450
0.033	± 10	35	50	0.035	650	2270
0.039	± 10	35	50	0.035	650	2270
0.047	± 10	35	50	0.04	650	2120
0.056	± 10	35	50	0.05	650	1900
0.068	± 10	35	50	0.06	650	1730
0.082	± 10	35	50	0.07	650	1620
0.10	± 10	30	25	0.08	650	1500
0.12	± 10	30	25	0.09	620	1410
0.15	± 10	30	25	0.10	600	1340
0.18	± 10	30	25	0.12	550	1225
0.22	± 10	30	25	0.14	510	1130
0.27	± 10	30	25 25	0.16	430	1060
0.33	± 10	30	-	0.20	410	945
0.39 0.47	± 10 ± 10	30 30	25 25	0.30	380 340	775 690
0.47		30	25	0.38	340	690
0.68	± 10	30	25	0.60	275	550
0.82	± 10	30	25	0.80	275	490
1	± 10 ± 10	30	25	0.75	230	490
1.2	± 10 ± 10	25	7.9	0.90	150	1000
1.5		25	7.9	0.18	140	
1.5	± 10 ± 10	25	7.9	0.22	140	905 775
2.2	± 10 ± 10	25	7.9	0.30	125	670
2.2	± 10 ± 10	30	7.9	0.40	100	600
3.3	± 10 ± 10	35	7.9	0.80	90	475
3.9	± 10	35	7.9	1	82	475
4.7	± 10	35	7.9	1,2	75	385
5.6	± 10	35	7.9	1.2	68	330
6.8	± 10	40	7.9	1.8	60	330
8.2	± 10	40	7.9	2.55	55	265
10	± 10	40	7.9	2.9	50	245
12	± 10	35	2.5	1.9	45	305
15	± 10	40	2.5	2.8	45	250
18	± 10	40	2.5	3.1	40	240
22	± 10	40	2.5	3.3	40	230
27	± 10	40	2.5	3.9	30	215
33	± 10	40	2.5	4	24	210
39	± 10	40	2.5	4.4	22	200
47	± 10	40	2.5	5	20	190
56	± 10	40	2.5	5.3	18	180
68	± 10	40	2.5	6.1	15	170
82	± 10	40	2.5	6.9	14	160
100	± 10	40	2.5	7.7	11.5	150
120	± 10	35	0.79	9.9	9.5	135
150	± 10	35	0.79	11	8.5	120
180	± 10	25	0.79	18	8	100
220	± 10	25	0.79	21	7.2	90
270	± 10	25	0.79	25	6.4	85
330	± 10	25	0.79	34	5.6	70
390	± 10	25	0.79	42	4.5	65
470	± 10	25	0.79	46	4.2	60
560	± 10	25	0.79	52	3.5	55
680	± 10	25	0.79	55	3.3	55
820	± 10	25	0.79	62	3	50
1000	± 10	25	0.79	67	2.5	50
1200	± 10	15	0.25	74	1.6	45
1500	± 10	15	0.25	80	1.2	45

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