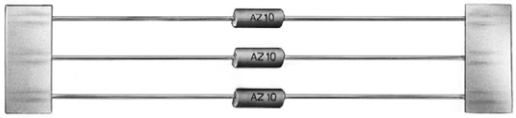
Molded Inductors, Axial Leads, High Frequency and Noise Suppression Applications



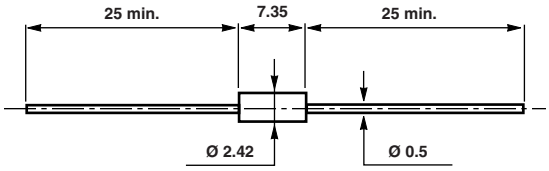
FEATURES

- 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
TR021	0.022 to 1500	0.180	500	10	15 to 40	45 to 2530

Note

(1) ± 10 % for 0.022 µH < L ≤ 1500 µH . On request: ± 5 % and ± 2 % for 1 µH < L ≤ 1000 µH

MECHANICAL SPECIFICATIONS

Coating	Molded epoxy
Weight	0.5 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	1	6	R	8	K	R	1	5						

MODEL	STYLE	VALUE	TOLERANCE	PACKAGING	SPECIAL
TR	**021**	From 0.022 µH to 1500 µH **6R8** = 6.8 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	021	6µH8	10 %	R		e1
MODEL	STYLE	VALUE	TOLERANCE	PACKAGING	SPECIAL	LEAD (Pb)-FREE

For technical questions, contact: sferaztronics@vishay.com

STANDARD VALUES

INDUCTANCE VALUE µH	TOLERANCE %	Q MIN.	TEST FREQUENCY MHz	RESISTANCE MAX. Ω	SRF MIN. MHz	I 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	0.16	430	1060
0.33	± 10	30	25	0.20	410	945
0.39	± 10	30	25	0.30	380	775
0.47	± 10	30	25	0.38	340	690
0.56	± 10	30	25	0.50	300	600
0.68	± 10	30	25	0.60	275	550
0.82	± 10	30	25	0.75	250	490
1	± 10	30	25	0.90	230	445
1.2	± 10	25	7.9	0.18	150	1000
1.5	± 10	25	7.9	0.22	140	905
1.8	± 10	25	7.9	0.30	125	775
2.2	± 10	25	7.9	0.40	115	670
2.7	± 10	30	7.9	0.50	100	600
3.3	± 10	35	7.9	0.80	90	475
3.9	± 10	35	7.9	1	82	425
4.7	± 10	35	7.9	1.2	75	385
5.6	± 10	35	7.9	1.8	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

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

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 in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay’s knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer’s responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer’s technical experts. Product specifications do not expand or otherwise modify Vishay’s terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

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

Material Category Policy

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Fixed Inductors ***category:***

Click to view products by Vishay ***manufacturer:***

Other Similar products are found below :

CR43NP-680KC CR54NP-820KC CR54NP-8R5MC CTX32CT-100 70F224AI MGDQ4-00004-P MHL1ECTTP18NJ MHL1JCTTD12NJ PE-51506NL PE-53601NL PE-53602NL PE-53630NL PE-53824SNLT PE-92100NL PG0434.801NLT PG0936.113NLT 9310-16 PM06-2N7 PM06-39NJ A01TK 1206CS-471XJ HC2-2R2TR HC2LP-R47-R HC3-2R2-R 1206CS-151XG RCH664NP-140L RCH664NP-4R7M RCH8011NP-221L RCP1317NP-332L RCP1317NP-391L RCR1010NP-470M RCR110DNP-331L DH2280-4R7M DS1608C-106 ASPI-4020HI-R10M-T B10TJ B82477P4333M B82498B3101J000 B82498B3680J000 ELJ-RE27NJF2 1812CS-153XJ 1812CS-183XJ 1812CS-223XJ 1812LS-104XJ 1812LS-105XJ 1812LS-124XJ 1812LS-154XJ 1812LS-223XJ 1812LS-224XJ 1812LS-563XJ