Current Chokes, Axial Leads Noise Suppression Applications

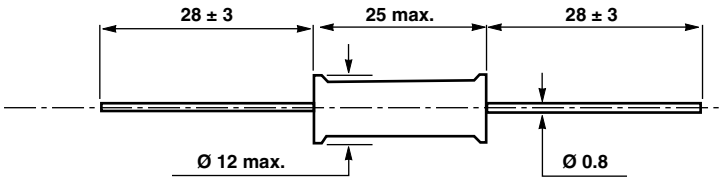
FEATURES

- These Inductors have copper winding on a bobbin with axial terminals
- Protection by a thermo sleeve
- Cylindrical shape allows use in automatic cabling machines
- This inductor series is specially designed for power supply filtering
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

Pb-free

RoHS COMPLIANT

DIMENSIONS in millimeters



ELECTRICAL SPECIFICATIONS	
Inductance range	3.9 µH to 100 000 µH
Tolerance	± 20 %
Maximum voltage	500 V_{RMS}
Measuring conditions	U = 100 mV_{RMS}

MECHANICAL SPECIFICATIONS	
Coating	Thermo sleeve
Weight	8 g

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

PACKAGING
500 pieces tape and reel

MARKING

Print marked:
manufacturer, series and style, inductance value, date code

ORDERING INFORMATION

IG	120	3.3 µH	± 20 %	R	e1
MODEL	STYLE	INDUCTANCE VALUE	TOLERANCE	PACKAGING R: tape and reel	LEAD FINISH e1: SnAgCu

SAP PART NUMBERING GUIDELINES

I	G	1	2	0	3	R	3	M	R	1	0						
MODEL		STYLE			INDUCTANCE VALUE			TOL.	PACKAGING CODE			SPECIAL (IF APPLICABLE)					

See the end of this data book for conversion tables

For technical questions, contact: sferaztronics@vishay.com

THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000

Downloaded from Arrow.com.

IG120 INDUCTORS - STANDARD VALUES				
INDUCTANCE VALUE µH IDC = 0	TOLERANCE %	TEST FREQUENCY	DCR MAX. Ω	I MAX. A
3.9	± 20 %	1 kHz	0.007	4
4.7			0.008	
5.6			0.011	
6.8			0.011	
8.2			0.013	
10			0.016	
12			0.018	
15			0.020	
18			0.022	
22			0.024	
27			0.025	
33			0.028	
39			0.031	4
47			0.034	3.2
56			0.043	2.5
68			0.059	2
82			0.066	1.8
100			0.084	1.6
120			0.113	
150			0.129	
180			0.150	
220			0.162	
270			0.226	
330			0.257	
390			0.288	1.6
470			0.393	1.2
560			0.504	1
680			0.570	1
820			0.643	0.8
1000			0.844	0.8
1200			0.977	0.8
1500			1.18	0.6
1800			1.50	0.6
2200			1.76	0.5
2700			2.13	0.4
3300			2.53	0.4
3900			2.84	0.4
4700			3.79	0.4
5600			4.24	0.32
6800			5.75	0.25
8200			6.44	0.25
10 000			7.30	0.25
12 000			9.34	0.2
15 000			10.7	0.2
18 000			14.8	0.16
22 000			18	0.13
27 000			22.7	0.13
33 000			25.7	0.13
39 000			29.7	0.1
47 000			33.7	0.1
56 000			38	0.1
68 000			52.8	0.08
82 000			67.3	0.07
100 000	± 20 %	1 kHz	76	0.07

For technical questions, contact: sferaztronics@vishay.com
THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000
Downloaded from Arrow.com.

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.

Downloaded from Arrow.com.