Current Chokes, Axial Leads, Noise Suppression Applications

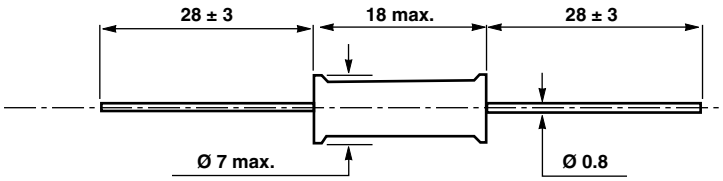
FEATURES

- These inductors have copper winding on a bobbin with axial terminals
- Protection by a thermo sleeve
- Cylindrical shape allows use in automatic cabling machines use
- 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	1 µH to 18 000 µH
Tolerance	± 20 %
Maximum voltage	500 V_{RMS}
Measuring conditions	U = 100 mV_{RMS}

MECHANICAL SPECIFICATIONS	
Coating	Thermo sleeve
Weight	4 g

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

PACKAGING
500 pieces tape and reel

MARKING

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

ORDERING INFORMATION

IG	70	3900 µH	± 20 %	R	e1
MODEL	STYLE	INDUCTANCE VALUE	TOLERANCE	PACKAGING	LEAD FINISH e1: SnAgCu

SAP PART NUMBERING GUIDELINES

I	G	7	0	3	9	2	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

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STANDARD VALUES - IG70 INDUCTORS				
INDUCTANCE VALUE µH I_{DC} = 0 A	TOLERANCE %	TEST FREQUENCY	DCR MAX. Ω	I MAX. A
1	± 20 %	1 kHz	0.009	5.3
1.2	± 20 %	1 kHz	0.010	5
1.5	± 20 %	1 kHz	0.011	4.8
1.8	± 20 %	1 kHz	0.012	4.6
2.2	± 20 %	1 kHz	0.013	4.4
2.7	± 20 %	1 kHz	0.014	4.2
3.3	± 20 %	1 kHz	0.016	4
3.9	± 20 %	1 kHz	0.017	3.8
4.7	± 20 %	1 kHz	0.022	3.4
5.6	± 20 %	1 kHz	0.024	3.2
6.8	± 20 %	1 kHz	0.026	3.1
8.2	± 20 %	1 kHz	0.028	3
10	± 20 %	1 kHz	0.033	2.8
12	± 20 %	1 kHz	0.037	2.6
15	± 20 %	1 kHz	0.040	2.5
18	± 20 %	1 kHz	0.044	2.4
22	± 20 %	1 kHz	0.060	2.2
27	± 20 %	1 kHz	0.070	1.9
33	± 20 %	1 kHz	0.075	1.8
39	± 20 %	1 kHz	0.084	1.7
47	± 20 %	1 kHz	0.104	1.6
56	± 20 %	1 kHz	0.130	1.4
68	± 20 %	1 kHz	0.145	1.3
82	± 20 %	1 kHz	0.152	1.3
100	± 20 %	1 kHz	0.208	1.1
120	± 20 %	1 kHz	0.283	0.94
150	± 20 %	1 kHz	0.330	0.87
180	± 20 %	1 kHz	0.362	0.83
220	± 20 %	1 kHz	0.505	0.70
270	± 20 %	1 kHz	0.557	0.67
330	± 20 %	1 kHz	0.650	0.62
390	± 20 %	1 kHz	0.770	0.57
470	± 20 %	1 kHz	1.03	0.49
560	± 20 %	1 kHz	1.14	0.47
680	± 20 %	1 kHz	1.50	0.41
820	± 20 %	1 kHz	1.98	0.36
1000	± 20 %	1 kHz	2.3	0.33
1200	± 20 %	1 kHz	2.55	0.31
1500	± 20 %	1 kHz	3	0.29
1800	± 20 %	1 kHz	4	0.25
2200	± 20 %	1 kHz	4.40	0.24
2700	± 20 %	1 kHz	5.80	0.21
3300	± 20 %	1 kHz	6.56	0.2
3900	± 20 %	1 kHz	8.63	0.17
4700	± 20 %	1 kHz	10.1	0.16
5600	± 20 %	1 kHz	11.2	0.15
6800	± 20 %	1 kHz	15	0.13
8200	± 20 %	1 kHz	20.8	0.11
10 000	± 20 %	1 kHz	23.4	0.1
12 000	± 20 %	1 kHz	26	0.1
15 000	± 20 %	1 kHz	36	0.08
18 000	± 20 %	1 kHz	40	0.08

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