

Vishay Aztronic

Current Chokes, Axial Leads, Noise Suppression Applications



FEATURES

 These inductors have copper winding on a bobbin with axial terminals

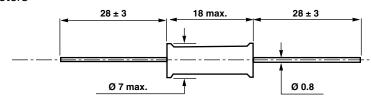


• Protection by a thermo sleeve

RoHS

- 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 <u>www.vishay.com/doc?99912</u>

DIMENSIONS in millimeters



ELECTRICAL SPECIFICATIONS			
Inductance range	1 μH to 18 000 μH		
Tolerance	± 20 %		
Maximum voltage	500 V _{RMS}		
Measuring conditions	$U = 100 \text{ mV}_{RMS}$		

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

SAP PART I	NUMBERING	GUIDELINES			
I G	7 0	3 9 2	М	R 1 0	
MODEL	STYLE	INDUCTANCE	TOL.	PACKAGING	SPECIAL (15 APPLICABLE)
		VALUE		CODE	(IF APPLICABLE)
See the end of the	his data book for	conversion tables			



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STANDARD VALUES - IG70 INDUCTORS					
INDUCTANCE VALUE	TOLERANCE %	TEST FREQUENCY	DCR MAX.	MAX.	
I _{DC} = 0 A	22.0/		Ω	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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