Current Chokes, Axial Leads Noise Suppression Applications

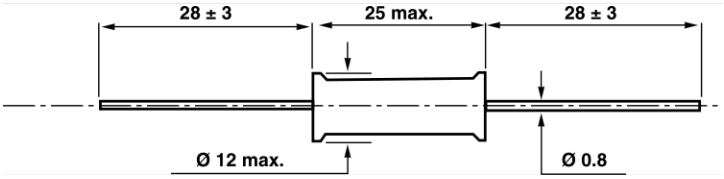
FEATURES

- 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	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	**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

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

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