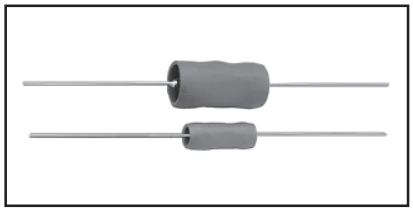
Filter Inductors

High Current



FEATURES

- Printed circuit mounting (axial leads).
- Protected by polyolefin tubing.
- High saturation bobbin used allowing high inductance with low DC resistance.
- Pre-tinned leads.
- High resistivity core offers very high parallel resistance, resulting in maximum coil performance.
- 20 sleeveless models available at reduced cost.

STANDARD ELECTRICAL SPECIFICATIONS

MODEL IHD-1					MODEL IHD-3				
IND. @ 1kHz (µH)	TOL.	DCR MAX. (Ohms)	RATED CURRENT (Max. Amps)	INCREMENTAL CURRENT (Amps Approx.)	IND. @ 1kHz (µH)	TOL.	DCR MAX. (Ohms)	RATED CURRENT (Max. Amps)	INCREMENTAL CURRENT (Amps Approx.)
1.0	± 15%	.009	5.3	7.0	3.9	± 15%	.007	4.0	8.2
1.2	± 15%	.010	5.0	6.4	4.7	± 15%	.008	4.0	7.5
1.5	± 15%	.011	4.8	5.7	5.6	± 15%	.011	4.0	6.9
1.8	± 15%	.012	4.6	5.2	6.8	± 15%	.011	4.0	6.3
2.2	± 15%	.013	4.4	4.7	8.2	± 15%	.013	4.0	5.7
2.7	± 15%	.014	4.2	4.3	10.0	± 15%	.016	4.0	5.2
3.3	± 15%	.016	4.0	3.9	12.0	± 15%	.018	4.0	4.7
3.9	± 15%	.017	3.8	3.6	15.0	± 15%	.020	4.0	4.3
4.7	± 15%	.022	3.4	3.3	18.0	± 15%	.022	4.0	3.9
5.6	± 15%	.024	3.2	3.0	22.0	± 15%	.024	4.0	3.5
6.8	± 15%	.026	3.1	2.7	27.0	± 15%	.025	4.0	3.2
8.2	± 15%	.028	3.0	2.5	33.0	± 15%	.028	4.0	2.9
10.0	± 15%	.033	2.8	2.3	39.0	± 15%	.031	4.0	2.7
12.0	± 15%	.037	2.6	2.1	47.0	± 15%	.034	4.0	2.5
15.0	± 15%	.040	2.5	1.9	56.0	± 15%	.043	3.2	2.3
18.0	± 15%	.044	2.4	1.7	68.0	± 15%	.059	2.5	2.1
22.0	± 15%	.050	2.2	1.5	82.0	± 15%	.066	2.0	1.9
27.0	± 15%	.070	1.9	1.4	100.0	± 15%	.084	1.6	1.7
33.0	± 15%	.075	1.8	1.3	120.0	± 15%	.113	1.6	1.6
39.0	± 15%	.084	1.7	1.2	150.0	± 15%	.129	1.6	1.4
47.0	± 15%	.104	1.6	1.1	180.0	± 15%	.150	1.6	1.3
56.0	± 15%	.130	1.4	.97	220.0	± 15%	.162	1.6	1.2
68.0	± 15%	.145	1.3	.88	270.0	± 15%	.226	1.6	1.1
82.0	± 15%	.152	1.3	.80	330.0	± 15%	.257	1.6	.95
100.0	± 15%	.208	1.1	.73	390.0	± 15%	.288	1.6	.88
120.0	± 15%	.283	.94	.66	470.0	± 15%	.393	1.2	.80
150.0	± 15%	.330	.87	.60	560.0	± 15%	.504	1.0	.74
180.0	± 15%	.362	.83	.54	680.0	± 15%	.570	1.0	.67
220.0	± 15%	.505	.70	.49	820.0	± 15%	.643	.80	.61
270.0	± 15%	.557	.67	.45	1000.0	± 15%	.844	.80	.56
330.0	± 15%	.650	.62	.40	1200.0	± 15%	.977	.60	.51
390.0	± 15%	.770	.57	.37	1500.0	± 15%	1.18	.60	.46
470.0	± 15%	1.03	.49	.34	1800.0	± 15%	1.50	.60	.42
560.0	± 15%	1.14	.47	.31	2200.0	± 15%	1.76	.50	.38
680.0	± 15%	1.50	.41	.28	2700.0	± 15%	2.13	.40	.34
820.0	± 15%	1.98	.36	.26	3300.0	± 15%	2.53	.40	.31
1000.0	± 15%	2.30	.33	.23	3900.0	± 15%	2.84	.40	.29
1200.0	± 15%	2.55	.31	.21	4700.0	± 15%	3.79	.40	.26
1500.0	± 15%	3.0	.29	.19	5600.0	± 15%	4.24	.32	.24
1800.0	± 15%	4.0	.25	.18	6800.0	± 15%	5.75	.25	.22
2200.0	± 15%	4.40	.24	.16	8200.0	± 15%	6.44	.25	.20
2700.0	± 15%	5.80	.21	.14	10000.0	± 15%	7.30	.25	.18
3300.0	± 15%	6.56	.20	.13	12000.0	± 15%	9.34	.20	.17
3900.0	± 15%	8.63	.17	.12	15000.0	± 15%	10.7	.20	.15
4700.0	± 15%	10.1	.16	.11	18000.0	± 15%	14.8	.16	.14
5600.0	± 15%	11.2	.15	.10	22000.0	± 15%	18.0	.13	.12
6800.0	± 15%	15.0	.13	.09	27000.0	± 15%	22.7	.13	.11
8200.0	± 15%	20.8	.11	.08	33000.0	± 15%	25.7	.13	.10
10000.0	± 15%	23.4	.10	.08	39000.0	± 15%	29.7	.10	.09
12000.0	± 15%	26.0	.10	.07	47000.0	± 15%	33.7	.10	.09
15000.0	± 15%	36.0	.08	.06	56000.0	± 15%	38.0	.10	.08
18000.0	± 15%	40.0	.08	.06	68000.0	± 15%	52.8	.08	.07
					82000.0	± 15%	67.3	.07	.07
					100000.0	± 15%	76.0	.07	.06

ELECTRICAL SPECIFICATIONS

Inductance: Measured at 1V with no DC current.

Incremental Current: The typical current at which the inductance will be decreased by 5% from its initial zero DC value.

Dielectric Rating: 2500V RMS between winding and outer circumference to within .250" [6.35mm] of the insulating sleeve edge.

Operating Temperature:
- 55°C to + 125°C (no load).
- 55°C to + 85°C (at full rated current).

Current Rating: Maximum continuous. Operating current (DC or RMS) based on a 40°C temperature rise.

MECHANICAL SPECIFICATIONS

Wire: Solid soft copper.

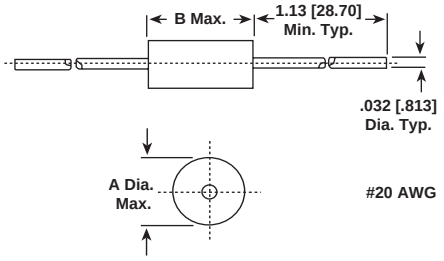
Terminals: 20 AWG tinned copper leads.

Coating: Polyolefin tubing - flame retardant UL type VW-1 per MIL-I-23053/5, Class 3 requirements.

Core Material: Ferrite.

DIMENSIONAL CONFIGURATIONS

[Numbers in brackets indicate millimeters]



MODEL	A (Max.)	B (Max.)
IHD-1	.270 [6.85]	.700 [17.78]
IHD-3	.460 [11.68]	.900 [22.86]

PART MARKING

— Vishay Dale
— Model
— Value
— Date code

HOW TO ORDER

IHD-1	3.9µH	±15%
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE