

Filter Inductors, High Current, Axial Leaded



ELECTRICAL SPECIFICATIONS

Inductance: Measured at 1.0 V with zero DC current

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

Dielectric Rating: 2500 V_{RMS} between winding and outer circumference to within 0.250" [6.35 mm] 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

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
- Compliant to RoHS Directive 2002/95/EC



RoHS
COMPLIANT

MECHANICAL SPECIFICATIONS

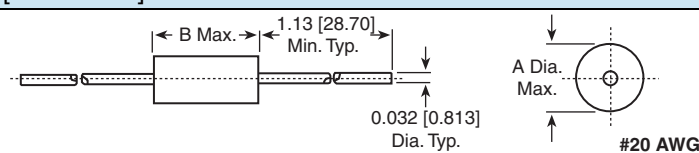
Wire: Solid soft copper

Terminals: 20 AWG tinned copper leads

Core Material: Ferrite

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

DIMENSIONS in inches [millimeters]



MODEL	A (MAX.)	B (MAX.)
IHD-1	0.270 [6.85]	0.700 [17.78]
IHD-3	0.460 [11.68]	0.900 [22.86]

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	IND. AT 1 kHz (μH)	TOL. (%)	DCR MAX. (Ω)	RATED DC CURRENT (mA)	INCREMENTAL CURRENT (mA)
IHD-1	1	± 15 %	0.009	5.3	7000
IHD-1	1.2	± 15 %	0.010	5.0	6400
IHD-1	1.5	± 15 %	0.011	4.8	5700
IHD-1	1.8	± 15 %	0.012	4.6	5200
IHD-1	2.2	± 15 %	0.013	4.4	4700
IHD-1	2.7	± 15 %	0.014	4.2	4300
IHD-1	3.3	± 15 %	0.016	4.0	3900
IHD-1	3.9	± 15 %	0.017	3.8	3600
IHD-1	4.7	± 15 %	0.022	3.4	3300
IHD-1	5.6	± 15 %	0.024	3.2	3000
IHD-1	6.8	± 15 %	0.026	3.1	2700
IHD-1	8.2	± 15 %	0.028	3.0	2500
IHD-1	10	± 15 %	0.033	2.8	2300
IHD-1	12	± 15 %	0.037	2.6	2100
IHD-1	15	± 15 %	0.040	2.5	1900
IHD-1	18	± 15 %	0.044	2.4	1700
IHD-1	22	± 15 %	0.050	2.2	1500
IHD-1	27	± 15 %	0.070	1.9	1400
IHD-1	33	± 15 %	0.075	1.8	1300
IHD-1	39	± 15 %	0.084	1.7	1200
IHD-1	47	± 15 %	0.104	1.6	1100
IHD-1	56	± 15 %	0.130	1.4	970
IHD-1	68	± 15 %	0.145	1.3	880
IHD-1	82	± 15 %	0.152	1.3	800
IHD-1	100	± 15 %	0.208	1.1	730
IHD-1	120	± 15 %	0.283	0.94	660
IHD-1	150	± 15 %	0.330	0.87	600
IHD-1	180	± 15 %	0.362	0.83	540
IHD-1	220	± 15 %	0.505	0.70	490
IHD-1	270	± 15 %	0.557	0.67	450
IHD-1	330	± 15 %	0.650	0.62	400
IHD-1	390	± 15 %	0.770	0.57	370
IHD-1	470	± 15 %	1.030	0.49	340
IHD-1	560	± 15 %	1.140	0.47	310

STANDARD ELECTRICAL SPECIFICATIONS					
MODEL	IND. AT 1 kHz (μ H)	TOL. (%)	DCR MAX. (Ω)	RATED DC CURRENT (mA)	INCREMENTAL CURRENT (mA)
IHD-1	680	$\pm 15\%$	1.500	0.41	280
IHD-1	820	$\pm 15\%$	1.980	0.36	260
IHD-1	1000	$\pm 15\%$	2.300	0.33	230
IHD-1	1200	$\pm 15\%$	2.550	0.31	210
IHD-1	1500	$\pm 15\%$	3.000	0.29	190
IHD-1	1800	$\pm 15\%$	4.000	0.25	180
IHD-1	2200	$\pm 15\%$	4.400	0.24	160
IHD-1	2700	$\pm 15\%$	5.800	0.21	140
IHD-1	3300	$\pm 15\%$	6.560	0.20	130
IHD-1	3900	$\pm 15\%$	8.630	0.17	120
IHD-1	4700	$\pm 15\%$	10.100	0.16	110
IHD-1	5600	$\pm 15\%$	11.200	0.15	100
IHD-1	6800	$\pm 15\%$	15.000	0.13	90
IHD-1	8200	$\pm 15\%$	20.800	0.11	80
IHD-1	10 000	$\pm 15\%$	23.400	0.10	80
IHD-1	12 000	$\pm 15\%$	26.000	0.10	70
IHD-1	15 000	$\pm 15\%$	36.000	0.08	60
IHD-1	18 000	$\pm 15\%$	40.000	0.08	60
IHD-3	3.9	$\pm 15\%$	0.007	4.0	8200
IHD-3	4.7	$\pm 15\%$	0.008	4.0	7500
IHD-3	5.6	$\pm 15\%$	0.011	4.0	6900
IHD-3	6.8	$\pm 15\%$	0.011	4.0	6300
IHD-3	8.2	$\pm 15\%$	0.013	4.0	5700
IHD-3	10	$\pm 15\%$	0.016	4.0	5200
IHD-3	12	$\pm 15\%$	0.018	4.0	4700
IHD-3	15	$\pm 15\%$	0.020	4.0	4300
IHD-3	18	$\pm 15\%$	0.022	4.0	3900
IHD-3	22	$\pm 15\%$	0.024	4.0	3500
IHD-3	27	$\pm 15\%$	0.025	4.0	3200
IHD-3	33	$\pm 15\%$	0.028	4.0	2900
IHD-3	39	$\pm 15\%$	0.031	4.0	2700
IHD-3	47	$\pm 15\%$	0.034	4.0	2500
IHD-3	56	$\pm 15\%$	0.043	3.2	2300
IHD-3	68	$\pm 15\%$	0.059	2.5	2100
IHD-3	82	$\pm 15\%$	0.066	2.0	1900
IHD-3	100	$\pm 15\%$	0.084	1.6	1700
IHD-3	120	$\pm 15\%$	0.113	1.6	1600
IHD-3	150	$\pm 15\%$	0.129	1.6	1400
IHD-3	180	$\pm 15\%$	0.150	1.6	1300
IHD-3	220	$\pm 15\%$	0.162	1.6	1200
IHD-3	270	$\pm 15\%$	0.226	1.6	1100
IHD-3	330	$\pm 15\%$	0.257	1.6	950
IHD-3	390	$\pm 15\%$	0.288	1.6	880
IHD-3	470	$\pm 15\%$	0.393	1.2	800
IHD-3	560	$\pm 15\%$	0.504	1.0	740
IHD-3	680	$\pm 15\%$	0.570	1.0	670
IHD-3	820	$\pm 15\%$	0.643	0.8	610
IHD-3	1000	$\pm 15\%$	0.844	0.8	560
IHD-3	1200	$\pm 15\%$	0.977	0.6	510
IHD-3	1500	$\pm 15\%$	1.180	0.6	460
IHD-3	1800	$\pm 15\%$	1.500	0.6	420
IHD-3	2200	$\pm 15\%$	1.760	0.5	380
IHD-3	2700	$\pm 15\%$	2.130	0.4	340
IHD-3	3300	$\pm 15\%$	2.530	0.4	310
IHD-3	3900	$\pm 15\%$	2.840	0.4	290
IHD-3	4700	$\pm 15\%$	3.790	0.4	260
IHD-3	5600	$\pm 15\%$	4.240	0.32	240
IHD-3	6800	$\pm 15\%$	5.750	0.25	220
IHD-3	8200	$\pm 15\%$	6.440	0.25	200
IHD-3	10 000	$\pm 15\%$	7.300	0.25	180
IHD-3	12 000	$\pm 15\%$	9.340	0.20	170
IHD-3	15 000	$\pm 15\%$	10.700	0.20	150
IHD-3	18 000	$\pm 15\%$	14.800	0.16	140
IHD-3	22 000	$\pm 15\%$	18.000	0.13	120
IHD-3	27 000	$\pm 15\%$	22.700	0.13	110
IHD-3	33 000	$\pm 15\%$	25.700	0.13	100
IHD-3	39 000	$\pm 15\%$	29.700	0.10	90
IHD-3	47 000	$\pm 15\%$	33.700	0.10	90
IHD-3	56 000	$\pm 15\%$	38.000	0.10	80
IHD-3	68 000	$\pm 15\%$	52.800	0.08	70
IHD-3	82 000	$\pm 15\%$	67.300	0.07	70
IHD-3	100 000	$\pm 15\%$	76.000	0.07	60



MARKING

- Vishay Dale
- Model
- Inductance value
- Date code

ORDERING INFORMATION

IHD-1	3.9 μH	$\pm 15\%$	ER	e2
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER





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