

Filter Inductors

High Current



FEATURES

- Printed circuit mounting.
- Wide range of inductance and current ratings.
- Pre-tinned leads.
- Optional polyolefin tubing and printing available at additional cost.

ELECTRICAL SPECIFICATIONS

Inductance: Measured at 1V with no DC current.

Dielectric: 2500V RMS between winding and .250" [6.35mm] of insulating covering edge (with optional insulating covering).

Current Rating: Maximum continuous operating current based on a + 50°C temperature rise.

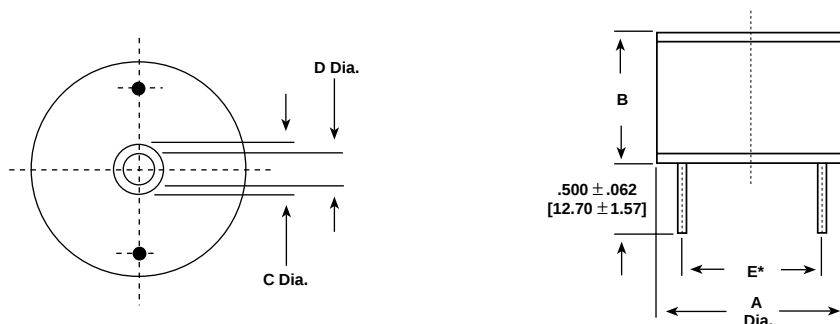
Operating Temperature: - 55°C to + 130°C (no load).
- 55°C to + 80°C (at full rated current).

MECHANICAL SPECIFICATIONS

Terminals: Extensions of winding wire, solder coated to within .063" [1.60mm] of body.

Mounting: Center hole for mechanical mounting. Insulated bushings recommended for center hole mounting.

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]



MODEL	A (Max.)	B (Max.)	C (Min.)	D (Min.)
IHB-1	.660 [16.76]	.840 [21.34]	.162 [4.11]	.115 [2.92]
IHB-2	.825 [20.96]	.840 [21.34]	.162 [4.11]	.115 [2.92]
IHB-3	1.10 [27.94]	.840 [21.34]	.162 [4.11]	.115 [2.92]
IHB-4	1.60 [40.64]	1.03 [26.16]	.250 [6.35]	.175 [4.45]
IHB-5	1.60 [40.64]	1.45 [36.83]	.250 [6.35]	.175 [4.45]
IHB-6	2.0 [50.80]	1.50 [38.10]	.330 [8.38]	.240 [6.10]

*E varies between components. See individual model specifications for details. Tolerance of $\pm .035$.

STANDARD ELECTRICAL SPECIFICATIONS and DIMENSION E [Numbers in brackets indicate millimeters]

IND. @ 1kHz (μ H)	TOL.	DCR MAX. (Ohms)	RATED CURRENT (Amps)	APPROX. LEAD "E" SPACING	IND. @ 1kHz (μ H)	TOL.	DCR MAX. (Ohms)	RATED CURRENT (Amps)	APPROX. LEAD "E" SPACING	IND. @ 1kHz (μ H)	TOL.	DCR MAX. (Ohms)	RATED CURRENT (Amps)	APPROX. LEAD "E" SPACING
MODEL IHB-1														
1.0	$\pm 20\%$	.003	9.0	.550 [13.97]	8.2	$\pm 20\%$	.009	9.0	.550 [13.97]	68.0	$\pm 10\%$	.077	2.8	.500 [12.70]
1.2	$\pm 20\%$	.003	9.0	.550 [13.97]	10.0	$\pm 10\%$	.010	9.0	.550 [13.97]	82.0	$\pm 10\%$	.083	2.8	.500 [12.70]
1.5	$\pm 20\%$	.004	9.0	.550 [13.97]	12.0	$\pm 10\%$	.011	9.0	.550 [13.97]	100.0	$\pm 10\%$	.095	2.8	.500 [12.70]
1.8	$\pm 20\%$	.004	9.0	.550 [13.97]	15.0	$\pm 10\%$	.015	7.2	.500 [12.70]	120.0	$\pm 10\%$	.127	2.0	.500 [12.70]
2.2	$\pm 20\%$	.005	9.0	.550 [13.97]	18.0	$\pm 10\%$	.016	7.2	.500 [12.70]	150.0	$\pm 10\%$	.181	1.6	.500 [12.70]
2.7	$\pm 20\%$	.005	9.0	.550 [13.97]	22.0	$\pm 10\%$	.020	5.5	.500 [12.70]	180.0	$\pm 10\%$	.217	1.6	.500 [12.70]
3.3	$\pm 20\%$	.005	9.0	.550 [13.97]	27.0	$\pm 10\%$	.030	4.5	.500 [12.70]	220.0	$\pm 10\%$	.240	1.6	.500 [12.70]
3.9	$\pm 20\%$	.006	9.0	.550 [13.97]	33.0	$\pm 10\%$	.040	4.0	.475 [12.07]	270.0	$\pm 10\%$	.300	1.6	.480 [12.19]
4.7	$\pm 20\%$	.007	9.0	.550 [13.97]	39.0	$\pm 10\%$	.046	4.0	.475 [12.07]	330.0	$\pm 10\%$	.336	1.3	.480 [12.19]
5.6	$\pm 20\%$	.007	9.0	.550 [13.97]	47.0	$\pm 10\%$	.062	2.8	.470 [11.94]	390.0	$\pm 10\%$	.460	1.0	.480 [12.19]
6.8	$\pm 20\%$	.008	9.0	.550 [13.97]	56.0	$\pm 10\%$	.069	2.8	.470 [11.94]	470.0	$\pm 10\%$	.636	.8	.475 [12.07]
										560.0	$\pm 10\%$	.696	.8	.475 [12.07]



STANDARD ELECTRICAL SPECIFICATIONS and DIMENSION E [Numbers in brackets indicate millimeters]														
IND. @ 1kHz (μH)	TOL.	DCR MAX. (Ohms)	RATED CURRENT (Amps)	APPROX. LEAD "E" SPACING	IND. @ 1kHz (μH)	TOL.	DCR MAX. (Ohms)	RATED CURRENT (Amps)	APPROX. LEAD "E" SPACING	IND. @ 1kHz (μH)	TOL.	DCR MAX. (Ohms)	RATED CURRENT (Amps)	APPROX. LEAD "E" SPACING
MODEL IHB-2														
1.0	± 20%	.003	11.4	.620 [15.75]	15.0	± 10%	.013	9.0	.620 [15.75]	220.0	± 10%	.150	2.8	.600 [15.24]
1.2	± 20%	.003	11.4	.620 [15.75]	18.0	± 10%	.018	7.2	.615 [15.62]	270.0	± 10%	.213	2.0	.600 [15.24]
1.5	± 20%	.003	11.4	.620 [15.75]	22.0	± 10%	.019	7.2	.615 [15.62]	330.0	± 10%	.305	1.6	.600 [15.24]
1.8	± 20%	.003	11.4	.620 [15.75]	27.0	± 10%	.026	5.5	.575 [14.61]	390.0	± 10%	.320	1.6	.600 [15.24]
2.2	± 20%	.004	11.4	.620 [15.75]	33.0	± 10%	.029	5.5	.575 [14.61]	470.0	± 10%	.355	1.6	.590 [14.99]
2.7	± 20%	.005	11.4	.620 [15.75]	39.0	± 10%	.030	5.5	.600 [15.24]	560.0	± 10%	.388	1.6	.590 [14.99]
3.3	± 20%	.005	11.4	.620 [15.75]	47.0	± 10%	.035	5.5	.600 [15.24]	680.0	± 10%	.430	1.6	.590 [14.99]
3.9	± 20%	.005	11.4	.620 [15.75]	56.0	± 10%	.039	5.5	.600 [15.24]	820.0	± 10%	.590	1.3	.590 [14.99]
4.7	± 20%	.005	11.4	.620 [15.75]	68.0	± 10%	.053	4.8	.600 [15.24]	1000.0	± 10%	.818	1.0	.590 [14.99]
5.6	± 20%	.006	11.4	.620 [15.75]	82.0	± 10%	.060	4.8	.600 [15.24]	1200.0	± 10%	1.14	.8	.590 [14.99]
6.8	± 20%	.007	11.4	.620 [15.75]	100.0	± 10%	.080	4.0	.600 [15.24]	1500.0	± 10%	1.26	.8	.590 [14.99]
8.2	± 20%	.007	11.4	.620 [15.75]	120.0	± 10%	.090	4.0	.600 [15.24]	1800.0	± 10%	1.39	.8	.590 [14.99]
10.0	± 10%	.009	11.4	.620 [15.75]	150.0	± 10%	.098	4.0	.600 [15.24]	2200.0	± 10%	1.54	.8	.590 [14.99]
12.0	± 10%	.009	11.4	.620 [15.75]	180.0	± 10%	.110	4.0	.600 [15.24]					
MODEL IHB-3														
1.0	± 20%	.003	21.0	.790 [20.07]	18.0	± 10%	.010	13.5	.750 [19.05]	330.0	± 10%	.122	4.5	.770 [19.56]
1.2	± 20%	.003	21.0	.790 [20.07]	22.0	± 10%	.011	13.5	.750 [19.05]	390.0	± 10%	.169	4.0	.740 [18.80]
1.5	± 20%	.003	21.0	.790 [20.07]	27.0	± 10%	.012	13.5	.800 [20.32]	470.0	± 10%	.187	4.0	.740 [18.80]
1.8	± 20%	.003	21.0	.790 [20.07]	33.0	± 10%	.017	13.5	.780 [19.81]	560.0	± 10%	.205	4.0	.740 [18.80]
2.2	± 20%	.003	21.0	.790 [20.07]	39.0	± 10%	.022	11.4	.780 [19.81]	680.0	± 10%	.256	2.8	.725 [18.42]
2.7	± 20%	.003	21.0	.790 [20.07]	47.0	± 10%	.024	9.0	.760 [19.30]	820.0	± 10%	.288	2.8	.725 [18.42]
3.3	± 20%	.003	21.0	.790 [20.07]	56.0	± 10%	.026	9.0	.760 [19.30]	1000.0	± 10%	.426	2.0	.715 [18.16]
3.9	± 20%	.003	21.0	.790 [20.07]	68.0	± 10%	.029	9.0	.760 [19.30]	1200.0	± 10%	.462	2.0	.760 [19.30]
4.7	± 20%	.003	21.0	.790 [20.07]	82.0	± 10%	.032	9.0	.760 [19.30]	1500.0	± 10%	.518	2.0	.760 [19.30]
5.6	± 20%	.003	21.0	.790 [20.07]	100.0	± 10%	.034	9.0	.760 [19.30]	1800.0	± 10%	.705	1.6	.740 [18.80]
6.8	± 20%	.004	21.0	.790 [20.07]	120.0	± 10%	.046	7.2	.740 [18.80]	2200.0	± 10%	1.02	1.3	.720 [18.29]
8.2	± 20%	.004	21.0	.790 [20.07]	150.0	± 10%	.064	5.5	.720 [18.29]	2700.0	± 10%	1.14	1.3	.720 [18.29]
10.0	± 10%	.006	17.0	.770 [19.56]	180.0	± 10%	.072	5.5	.720 [18.29]	3300.0	± 10%	1.27	1.3	.720 [18.29]
12.0	± 10%	.008	13.5	.750 [19.05]	220.0	± 10%	.080	5.5	.790 [20.07]	3900.0	± 10%	1.67	1.0	.700 [17.78]
15.0	± 10%	.009	13.5	.750 [19.05]	270.0	± 10%	.110	4.5	.770 [19.56]	4700.0	± 10%	1.86	1.0	.730 [18.54]
MODEL IHB-4														
1.8	± 20%	.002	27.0	1.10 [27.94]	39.0	± 10%	.012	21.0	1.10 [27.94]	820.0	± 10%	.154	7.2	1.13 [28.70]
2.2	± 20%	.002	27.0	1.10 [27.94]	47.0	± 10%	.018	14.4	1.10 [27.94]	1000.0	± 10%	.216	5.5	1.10 [27.94]
2.7	± 20%	.003	27.0	1.10 [27.94]	56.0	± 10%	.019	14.4	1.11 [28.19]	1200.0	± 10%	.232	5.5	1.10 [27.94]
3.3	± 20%	.003	27.0	1.10 [27.94]	68.0	± 10%	.021	14.4	1.11 [28.19]	1500.0	± 10%	.324	4.5	1.14 [28.96]
3.9	± 20%	.003	27.0	1.10 [27.94]	82.0	± 10%	.023	14.4	1.11 [28.19]	1800.0	± 10%	.360	4.5	1.14 [28.96]
4.7	± 20%	.003	27.0	1.10 [27.94]	100.0	± 10%	.025	14.4	1.11 [28.19]	2200.0	± 10%	.494	4.0	1.11 [28.19]
5.6	± 20%	.004	27.0	1.10 [27.94]	120.0	± 10%	.028	14.4	1.11 [28.19]	2700.0	± 10%	.555	4.0	1.11 [28.19]
6.8	± 20%	.004	27.0	1.10 [27.94]	150.0	± 10%	.040	11.4	1.10 [27.94]	3300.0	± 10%	.773	2.8	1.09 [27.69]
8.2	± 20%	.004	27.0	1.10 [27.94]	180.0	± 10%	.045	11.4	1.10 [27.94]	3900.0	± 10%	.845	2.8	1.09 [27.69]
10.0	± 10%	.005	27.0	1.10 [27.94]	220.0	± 10%	.050	11.4	1.10 [27.94]	4700.0	± 10%	1.14	2.0	1.07 [27.18]
12.0	± 10%	.005	27.0	1.10 [27.94]	270.0	± 10%	.056	11.4	1.10 [27.94]	5600.0	± 10%	1.60	2.0	1.05 [26.67]
15.0	± 10%	.006	27.0	1.10 [27.94]	330.0	± 10%	.074	11.4	1.16 [29.46]	6800.0	± 10%	1.76	1.6	1.05 [26.67]
18.0	± 10%	.008	27.0	1.10 [27.94]	390.0	± 10%	.082	9.0	1.13 [28.70]	8200.0	± 10%	1.95	1.6	1.09 [27.69]
22.0	± 10%	.009	21.0	1.10 [27.94]	470.0	± 10%	.114	7.2	1.13 [28.70]	10000.0	± 10%	2.76	1.3	1.07 [27.18]
27.0	± 10%	.010	21.0	1.10 [27.94]	560.0	± 10%	.125	7.2	1.13 [28.70]	12000.0	± 10%	3.04	1.3	1.07 [27.18]
33.0	± 10%	.011	21.0	1.10 [27.94]	680.0	± 10%	.139	7.2	1.13 [28.70]	15000.0	± 10%	3.39	1.3	1.07 [27.18]

**STANDARD ELECTRICAL SPECIFICATIONS and DIMENSION E** [Numbers in brackets indicate millimeters]

IND. @ 1kHz (μ H)	TOL.	DCR MAX. (Ohms)	RATED CURRENT (Amps)	APPROX. LEAD "E" SPACING	IND. @ 1kHz (μ H)	TOL.	DCR MAX. (Ohms)	RATED CURRENT (Amps)	APPROX. LEAD "E" SPACING	IND. @ 1kHz (μ H)	TOL.	DCR MAX. (Ohms)	RATED CURRENT (Amps)	APPROX. LEAD "E" SPACING
MODEL IHB-5														
1.8	$\pm 20\%$	.002	35.0	1.13 [28.70]	39.0	$\pm 10\%$	.010	27.0	1.10 [27.94]	820.0	$\pm 10\%$	.127	9.0	1.07 [27.18]
2.2	$\pm 20\%$	.002	35.0	1.13 [28.70]	47.0	$\pm 10\%$	.011	27.0	1.10 [27.94]	1000.0	$\pm 10\%$	.176	7.2	1.05 [26.67]
2.7	$\pm 20\%$	.002	35.0	1.13 [28.70]	56.0	$\pm 10\%$	.013	21.0	1.10 [27.94]	1200.0	$\pm 10\%$	.195	7.2	1.05 [26.67]
3.3	$\pm 20\%$	.002	35.0	1.13 [28.70]	68.0	$\pm 10\%$	.015	21.0	1.10 [27.94]	1500.0	$\pm 10\%$	.274	5.5	1.03 [26.16]
3.9	$\pm 20\%$	.003	35.0	1.13 [28.70]	82.0	$\pm 10\%$	.017	21.0	1.10 [27.94]	1800.0	$\pm 10\%$	.302	5.5	1.10 [27.94]
4.7	$\pm 20\%$	.003	35.0	1.13 [28.70]	100.0	$\pm 10\%$	.018	21.0	1.10 [27.94]	2200.0	$\pm 10\%$	.338	5.5	1.10 [27.94]
5.6	$\pm 20\%$	.003	35.0	1.13 [28.70]	120.0	$\pm 10\%$	.022	17.0	1.08 [27.43]	2700.0	$\pm 10\%$	.459	4.5	1.08 [27.43]
6.8	$\pm 20\%$	.003	35.0	1.13 [28.70]	150.0	$\pm 10\%$	.025	17.0	1.08 [27.43]	3300.0	$\pm 10\%$	.642	4.0	1.06 [26.92]
8.2	$\pm 20\%$	.003	35.0	1.13 [28.70]	180.0	$\pm 10\%$	.035	13.5	1.12 [28.45]	3900.0	$\pm 10\%$	.699	4.0	1.06 [26.92]
10.0	$\pm 10\%$	.004	35.0	1.13 [28.70]	220.0	$\pm 10\%$	.040	13.5	1.12 [28.45]	4700.0	$\pm 10\%$	.775	4.0	1.06 [26.92]
12.0	$\pm 10\%$	.004	35.0	1.13 [28.70]	270.0	$\pm 10\%$	.044	13.5	1.12 [28.45]	5600.0	$\pm 10\%$	.843	4.0	1.06 [26.92]
15.0	$\pm 10\%$	.005	35.0	1.13 [28.70]	330.0	$\pm 10\%$	.049	13.5	1.12 [28.45]	6800.0	$\pm 10\%$	1.15	2.8	1.04 [26.42]
18.0	$\pm 10\%$	.007	27.0	1.10 [27.94]	390.0	$\pm 10\%$	.070	11.4	1.09 [27.69]	8200.0	$\pm 10\%$	1.26	2.8	1.09 [27.69]
22.0	$\pm 10\%$	.007	27.0	1.10 [27.94]	470.0	$\pm 10\%$	.078	11.4	1.09 [27.69]	10000.0	$\pm 10\%$	1.74	2.0	1.07 [27.18]
27.0	$\pm 10\%$	.008	27.0	1.10 [27.94]	560.0	$\pm 10\%$	.105	9.0	1.07 [27.18]	12000.0	$\pm 10\%$	1.92	2.0	1.07 [27.18]
33.0	$\pm 10\%$	.009	27.0	1.10 [27.94]	680.0	$\pm 10\%$	.115	9.0	1.07 [27.18]	15000.0	$\pm 10\%$	2.17	2.0	1.07 [27.18]
MODEL IHB-6														
4.7	$\pm 20\%$	.002	35.0	1.43 [36.32]	120.0	$\pm 10\%$	.015	27.0	1.45 [36.83]	3300.0	$\pm 10\%$	.498	4.5	1.32 [33.53]
5.6	$\pm 20\%$	.002	35.0	1.43 [36.32]	150.0	$\pm 10\%$	.023	21.0	1.41 [35.81]	3900.0	$\pm 10\%$	.548	4.5	1.32 [33.53]
6.8	$\pm 20\%$	.003	35.0	1.43 [36.32]	180.0	$\pm 10\%$	.025	21.0	1.41 [35.81]	4700.0	$\pm 10\%$	.608	4.5	1.32 [33.53]
8.2	$\pm 20\%$	.003	35.0	1.43 [36.32]	220.0	$\pm 10\%$	.028	21.0	1.41 [35.81]	5600.0	$\pm 10\%$	.671	4.5	1.38 [35.05]
10.0	$\pm 10\%$	.003	35.0	1.43 [36.32]	270.0	$\pm 10\%$	.030	21.0	1.41 [35.81]	6800.0	$\pm 10\%$	.750	4.5	1.38 [35.05]
12.0	$\pm 10\%$	.004	35.0	1.43 [36.32]	330.0	$\pm 10\%$	.040	17.0	1.38 [35.05]	8200.0	$\pm 10\%$	1.03	4.0	1.35 [34.29]
15.0	$\pm 10\%$	.004	35.0	1.43 [36.32]	390.0	$\pm 10\%$	.055	13.5	1.35 [34.29]	10000.0	$\pm 10\%$	1.16	4.0	1.35 [34.29]
18.0	$\pm 10\%$	.005	35.0	1.43 [36.32]	470.0	$\pm 10\%$	.061	13.5	1.35 [34.29]	12000.0	$\pm 10\%$	1.54	2.8	1.33 [33.78]
22.0	$\pm 10\%$	.005	35.0	1.43 [36.32]	560.0	$\pm 10\%$	.068	13.5	1.35 [34.29]	15000.0	$\pm 10\%$	1.75	2.8	1.33 [33.78]
27.0	$\pm 10\%$	.006	35.0	1.43 [36.32]	680.0	$\pm 10\%$	.094	11.4	1.33 [33.78]	18000.0	$\pm 10\%$	1.94	2.8	1.38 [35.05]
33.0	$\pm 10\%$	.006	35.0	1.43 [36.32]	820.0	$\pm 10\%$	.104	11.4	1.33 [33.78]	22000.0	$\pm 10\%$	2.74	2.0	1.36 [34.54]
39.0	$\pm 10\%$	.006	35.0	1.43 [36.32]	1000.0	$\pm 10\%$	.143	9.0	1.31 [33.27]	27000.0	$\pm 10\%$	3.71	1.7	1.33 [33.78]
47.0	$\pm 10\%$	.008	35.0	1.53 [38.86]	1200.0	$\pm 10\%$	.156	9.0	1.40 [35.56]	33000.0	$\pm 10\%$	4.16	1.7	1.33 [33.78]
56.0	$\pm 10\%$	.009	35.0	1.53 [38.86]	1500.0	$\pm 10\%$	.219	7.2	1.37 [34.80]	39000.0	$\pm 10\%$	5.55	1.4	1.31 [33.27]
68.0	$\pm 10\%$	.009	35.0	1.53 [38.86]	1800.0	$\pm 10\%$	.241	7.2	1.37 [34.80]	47000.0	$\pm 10\%$	6.19	1.4	1.34 [34.04]
82.0	$\pm 10\%$	.010	35.0	1.53 [38.86]	2200.0	$\pm 10\%$	.270	7.2	1.37 [34.80]					
100.0	$\pm 10\%$	.014	27.0	1.45 [36.83]	2700.0	$\pm 10\%$	.364	5.5	1.34 [34.04]					

PART MARKING

— Model
— Value
— Date code

HOW TO ORDER

IHB-1
MODEL

10 μ H
INDUCTANCE
VALUE

$\pm 10\%$
INDUCTANCE
TOLERANCE