

## Filter Inductors, High Current, Radial Leded



### ELECTRICAL SPECIFICATIONS

**Inductance:** Measured at 1.0 V with zero DC current

**Dielectric:** 2500  $V_{RMS}$  between winding and 0.250" [6.35 mm] 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)

### FEATURES

- Printed circuit mounting
- Wide range of inductance and current ratings
- Pre-tinned leads
- Optional polyolefin tubing and printing available at additional cost
- Material categorization: For definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



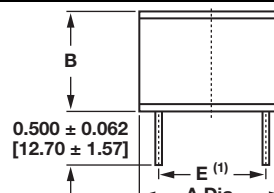
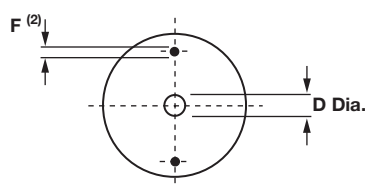
**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**

### MECHANICAL SPECIFICATIONS

**Terminals:** Extensions of the winding wire, solder coated to within 0.063" [1.60 mm] of body

**Mounting:** Center hole for mechanical mounting, insulated bushings recommended for center hole mounting

### DIMENSIONS in inches [millimeters]



| MODEL | A (MAX.)      | B (MAX.)      | D (MIN.)     |
|-------|---------------|---------------|--------------|
| IHB-1 | 0.660 [16.76] | 0.840 [21.34] | 0.115 [2.92] |
| IHB-2 | 0.825 [20.96] | 0.840 [21.34] | 0.115 [2.92] |
| IHB-3 | 1.100 [27.94] | 0.840 [21.34] | 0.115 [2.92] |
| IHB-4 | 1.600 [40.64] | 1.030 [26.16] | 0.175 [4.45] |
| IHB-5 | 1.600 [40.64] | 1.450 [36.83] | 0.175 [4.45] |
| IHB-6 | 2.000 [50.80] | 1.500 [38.10] | 0.240 [6.10] |

#### Notes

- (1) E varies between components, see individual model specifications for details, tolerance of ± 0.035  
(2) F varies between components, see individual model specifications for details

### STANDARD ELECTRICAL SPECIFICATIONS

| MODEL | IND. AT 1 kHz (μH) | TOL. (%) | DCR MAX. (Ω) | RATED DC CURRENT (A) | LEAD "E" SPACING | MAXIMUM LEAD "F" DIAMETER |
|-------|--------------------|----------|--------------|----------------------|------------------|---------------------------|
| IHB-1 | 1.0                | ± 20     | 0.003        | 14.9                 | 0.450 [11.43]    | 0.045 [1.15]              |
| IHB-1 | 1.2                | ± 20     | 0.003        | 14.9                 | 0.450 [11.43]    | 0.045 [1.15]              |
| IHB-1 | 1.5                | ± 20     | 0.004        | 12.9                 | 0.450 [11.43]    | 0.045 [1.15]              |
| IHB-1 | 1.8                | ± 20     | 0.004        | 12.9                 | 0.450 [11.43]    | 0.045 [1.15]              |
| IHB-1 | 2.2                | ± 20     | 0.005        | 11.6                 | 0.450 [11.43]    | 0.045 [1.15]              |
| IHB-1 | 2.7                | ± 20     | 0.005        | 11.6                 | 0.450 [11.43]    | 0.045 [1.15]              |
| IHB-1 | 3.3                | ± 20     | 0.005        | 11.6                 | 0.450 [11.43]    | 0.045 [1.15]              |
| IHB-1 | 3.9                | ± 20     | 0.006        | 10.6                 | 0.450 [11.43]    | 0.045 [1.15]              |
| IHB-1 | 4.7                | ± 20     | 0.007        | 9.8                  | 0.450 [11.43]    | 0.045 [1.15]              |
| IHB-1 | 5.6                | ± 20     | 0.007        | 9.8                  | 0.450 [11.43]    | 0.045 [1.15]              |
| IHB-1 | 6.8                | ± 20     | 0.008        | 9.2                  | 0.450 [11.43]    | 0.045 [1.15]              |
| IHB-1 | 8.2                | ± 20     | 0.009        | 8.6                  | 0.450 [11.43]    | 0.045 [1.15]              |
| IHB-1 | 10                 | ± 10     | 0.010        | 8.2                  | 0.450 [11.43]    | 0.045 [1.15]              |
| IHB-1 | 12                 | ± 10     | 0.011        | 7.8                  | 0.450 [11.43]    | 0.045 [1.15]              |
| IHB-1 | 15                 | ± 10     | 0.015        | 6.7                  | 0.450 [11.43]    | 0.040 [1.02]              |
| IHB-1 | 18                 | ± 10     | 0.016        | 6.5                  | 0.450 [11.43]    | 0.040 [1.02]              |
| IHB-1 | 22                 | ± 10     | 0.020        | 5.8                  | 0.450 [11.43]    | 0.040 [1.02]              |
| IHB-1 | 27                 | ± 10     | 0.030        | 4.7                  | 0.450 [11.43]    | 0.032 [0.812]             |
| IHB-1 | 33                 | ± 10     | 0.040        | 4.1                  | 0.475 [12.07]    | 0.028 [0.723]             |
| IHB-1 | 39                 | ± 10     | 0.046        | 3.8                  | 0.475 [12.07]    | 0.028 [0.723]             |

**STANDARD ELECTRICAL SPECIFICATIONS**

| MODEL | IND. AT 1 kHz<br>( $\mu$ H) | TOL.<br>(%) | DCR MAX.<br>( $\Omega$ ) | RATED DC CURRENT<br>(A) | LEAD "E" SPACING | MAXIMUM LEAD "F"<br>DIAMETER |
|-------|-----------------------------|-------------|--------------------------|-------------------------|------------------|------------------------------|
| IHB-1 | 47                          | $\pm 10$    | 0.062                    | 3.3                     | 0.470 [11.94]    | 0.025 [0.644]                |
| IHB-1 | 56                          | $\pm 10$    | 0.069                    | 3.1                     | 0.470 [11.94]    | 0.025 [0.644]                |
| IHB-1 | 68                          | $\pm 10$    | 0.077                    | 2.9                     | 0.500 [12.70]    | 0.025 [0.644]                |
| IHB-1 | 82                          | $\pm 10$    | 0.083                    | 2.8                     | 0.500 [12.70]    | 0.025 [0.644]                |
| IHB-1 | 100                         | $\pm 10$    | 0.095                    | 2.7                     | 0.500 [12.70]    | 0.025 [0.644]                |
| IHB-1 | 120                         | $\pm 10$    | 0.127                    | 2.3                     | 0.500 [12.70]    | 0.023 [0.573]                |
| IHB-1 | 150                         | $\pm 10$    | 0.181                    | 1.9                     | 0.500 [12.70]    | 0.020 [0.510]                |
| IHB-1 | 180                         | $\pm 10$    | 0.217                    | 1.8                     | 0.500 [12.70]    | 0.020 [0.510]                |
| IHB-1 | 220                         | $\pm 10$    | 0.240                    | 1.7                     | 0.500 [12.70]    | 0.020 [0.510]                |
| IHB-1 | 270                         | $\pm 10$    | 0.300                    | 1.5                     | 0.480 [12.19]    | 0.018 [0.455]                |
| IHB-1 | 330                         | $\pm 10$    | 0.336                    | 1.4                     | 0.480 [12.19]    | 0.018 [0.455]                |
| IHB-1 | 390                         | $\pm 10$    | 0.460                    | 1.2                     | 0.480 [12.19]    | 0.016 [0.405]                |
| IHB-1 | 470                         | $\pm 10$    | 0.636                    | 1.0                     | 0.475 [12.07]    | 0.014 [0.361]                |
| IHB-1 | 560                         | $\pm 10$    | 0.696                    | 1.0                     | 0.475 [12.07]    | 0.014 [0.361]                |
| IHB-2 | 1.0                         | $\pm 20$    | 0.003                    | 17.4                    | 0.620 [15.75]    | 0.051 [1.29]                 |
| IHB-2 | 1.2                         | $\pm 20$    | 0.003                    | 17.4                    | 0.620 [15.75]    | 0.051 [1.29]                 |
| IHB-2 | 1.5                         | $\pm 20$    | 0.003                    | 17.4                    | 0.620 [15.75]    | 0.051 [1.29]                 |
| IHB-2 | 1.8                         | $\pm 20$    | 0.003                    | 17.4                    | 0.620 [15.75]    | 0.051 [1.29]                 |
| IHB-2 | 2.2                         | $\pm 20$    | 0.004                    | 15.1                    | 0.620 [15.75]    | 0.051 [1.29]                 |
| IHB-2 | 2.7                         | $\pm 20$    | 0.005                    | 13.5                    | 0.620 [15.75]    | 0.051 [1.29]                 |
| IHB-2 | 3.3                         | $\pm 20$    | 0.005                    | 13.5                    | 0.620 [15.75]    | 0.051 [1.29]                 |
| IHB-2 | 3.9                         | $\pm 20$    | 0.005                    | 13.5                    | 0.620 [15.75]    | 0.051 [1.29]                 |
| IHB-2 | 4.7                         | $\pm 20$    | 0.005                    | 13.5                    | 0.620 [15.75]    | 0.051 [1.29]                 |
| IHB-2 | 5.6                         | $\pm 20$    | 0.006                    | 12.3                    | 0.620 [15.75]    | 0.051 [1.29]                 |
| IHB-2 | 6.8                         | $\pm 20$    | 0.007                    | 11.4                    | 0.620 [15.75]    | 0.051 [1.29]                 |
| IHB-2 | 8.2                         | $\pm 20$    | 0.007                    | 11.4                    | 0.620 [15.75]    | 0.051 [1.29]                 |
| IHB-2 | 10                          | $\pm 10$    | 0.009                    | 10.0                    | 0.620 [15.75]    | 0.051 [1.29]                 |
| IHB-2 | 12                          | $\pm 10$    | 0.009                    | 10.0                    | 0.620 [15.75]    | 0.051 [1.29]                 |
| IHB-2 | 15                          | $\pm 10$    | 0.013                    | 8.4                     | 0.620 [15.75]    | 0.045 [1.15]                 |
| IHB-2 | 18                          | $\pm 10$    | 0.018                    | 7.1                     | 0.615 [15.62]    | 0.040 [1.02]                 |
| IHB-2 | 22                          | $\pm 10$    | 0.019                    | 6.9                     | 0.615 [15.62]    | 0.040 [1.02]                 |
| IHB-2 | 27                          | $\pm 10$    | 0.026                    | 5.9                     | 0.575 [14.61]    | 0.036 [0.912]                |
| IHB-2 | 33                          | $\pm 10$    | 0.029                    | 5.6                     | 0.575 [14.61]    | 0.036 [0.912]                |
| IHB-2 | 39                          | $\pm 10$    | 0.030                    | 5.5                     | 0.600 [15.24]    | 0.036 [0.912]                |
| IHB-2 | 47                          | $\pm 10$    | 0.035                    | 5.1                     | 0.600 [15.24]    | 0.036 [0.912]                |
| IHB-2 | 56                          | $\pm 10$    | 0.039                    | 4.8                     | 0.600 [15.24]    | 0.036 [0.912]                |
| IHB-2 | 68                          | $\pm 10$    | 0.053                    | 4.1                     | 0.600 [15.24]    | 0.032 [0.812]                |
| IHB-2 | 82                          | $\pm 10$    | 0.060                    | 3.9                     | 0.600 [15.24]    | 0.032 [0.812]                |
| IHB-2 | 100                         | $\pm 10$    | 0.080                    | 3.4                     | 0.600 [15.24]    | 0.028 [0.723]                |
| IHB-2 | 120                         | $\pm 10$    | 0.090                    | 3.2                     | 0.600 [15.24]    | 0.028 [0.723]                |
| IHB-2 | 150                         | $\pm 10$    | 0.098                    | 3.0                     | 0.600 [15.24]    | 0.028 [0.723]                |
| IHB-2 | 180                         | $\pm 10$    | 0.110                    | 2.9                     | 0.600 [15.24]    | 0.028 [0.723]                |
| IHB-2 | 220                         | $\pm 10$    | 0.150                    | 2.5                     | 0.600 [15.24]    | 0.025 [0.644]                |
| IHB-2 | 270                         | $\pm 10$    | 0.213                    | 2.1                     | 0.600 [15.24]    | 0.023 [0.573]                |
| IHB-2 | 330                         | $\pm 10$    | 0.305                    | 1.7                     | 0.600 [15.24]    | 0.020 [0.510]                |
| IHB-2 | 390                         | $\pm 10$    | 0.320                    | 1.7                     | 0.600 [15.24]    | 0.020 [0.510]                |
| IHB-2 | 470                         | $\pm 10$    | 0.355                    | 1.6                     | 0.590 [14.99]    | 0.020 [0.510]                |
| IHB-2 | 560                         | $\pm 10$    | 0.388                    | 1.5                     | 0.590 [14.99]    | 0.020 [0.510]                |
| IHB-2 | 680                         | $\pm 10$    | 0.430                    | 1.5                     | 0.590 [14.99]    | 0.020 [0.510]                |
| IHB-2 | 820                         | $\pm 10$    | 0.590                    | 1.2                     | 0.590 [14.99]    | 0.018 [0.455]                |
| IHB-2 | 1000                        | $\pm 10$    | 0.818                    | 1.1                     | 0.590 [14.99]    | 0.016 [0.405]                |
| IHB-2 | 1200                        | $\pm 10$    | 1.140                    | 0.9                     | 0.590 [14.99]    | 0.014 [0.361]                |
| IHB-2 | 1500                        | $\pm 10$    | 1.260                    | 0.8                     | 0.590 [14.99]    | 0.014 [0.361]                |
| IHB-2 | 1800                        | $\pm 10$    | 1.390                    | 0.8                     | 0.590 [14.99]    | 0.014 [0.361]                |
| IHB-2 | 2200                        | $\pm 10$    | 1.540                    | 0.8                     | 0.590 [14.99]    | 0.014 [0.361]                |
| IHB-3 | 1.0                         | $\pm 20$    | 0.003                    | 20.3                    | 0.790 [20.07]    | 0.072 [1.83]                 |
| IHB-3 | 1.2                         | $\pm 20$    | 0.003                    | 20.3                    | 0.790 [20.07]    | 0.072 [1.83]                 |
| IHB-3 | 1.5                         | $\pm 20$    | 0.003                    | 20.3                    | 0.790 [20.07]    | 0.072 [1.83]                 |
| IHB-3 | 1.8                         | $\pm 20$    | 0.003                    | 20.3                    | 0.790 [20.07]    | 0.072 [1.83]                 |
| IHB-3 | 2.2                         | $\pm 20$    | 0.003                    | 20.3                    | 0.790 [20.07]    | 0.072 [1.83]                 |
| IHB-3 | 2.7                         | $\pm 20$    | 0.003                    | 20.3                    | 0.790 [20.07]    | 0.072 [1.83]                 |
| IHB-3 | 3.3                         | $\pm 20$    | 0.003                    | 20.3                    | 0.790 [20.07]    | 0.072 [1.83]                 |
| IHB-3 | 3.9                         | $\pm 20$    | 0.003                    | 20.3                    | 0.790 [20.07]    | 0.072 [1.83]                 |
| IHB-3 | 4.7                         | $\pm 20$    | 0.003                    | 20.3                    | 0.790 [20.07]    | 0.072 [1.83]                 |
| IHB-3 | 5.6                         | $\pm 20$    | 0.003                    | 20.3                    | 0.790 [20.07]    | 0.072 [1.83]                 |
| IHB-3 | 6.8                         | $\pm 20$    | 0.004                    | 17.6                    | 0.790 [20.07]    | 0.072 [1.83]                 |
| IHB-3 | 8.2                         | $\pm 20$    | 0.004                    | 17.6                    | 0.790 [20.07]    | 0.072 [1.83]                 |
| IHB-3 | 10                          | $\pm 10$    | 0.006                    | 14.4                    | 0.770 [19.56]    | 0.064 [1.63]                 |
| IHB-3 | 12                          | $\pm 10$    | 0.008                    | 12.4                    | 0.750 [19.05]    | 0.057 [1.45]                 |
| IHB-3 | 15                          | $\pm 10$    | 0.009                    | 11.7                    | 0.750 [19.05]    | 0.057 [1.45]                 |

**STANDARD ELECTRICAL SPECIFICATIONS**

| MODEL | IND. AT 1 kHz<br>( $\mu$ H) | TOL.<br>(%) | DCR MAX.<br>( $\Omega$ ) | RATED DC CURRENT<br>(A) | LEAD "E" SPACING | MAXIMUM LEAD "F"<br>DIAMETER |
|-------|-----------------------------|-------------|--------------------------|-------------------------|------------------|------------------------------|
| IHB-3 | 18                          | $\pm 10$    | 0.010                    | 11.1                    | 0.750 [19.05]    | 0.057 [1.45]                 |
| IHB-3 | 22                          | $\pm 10$    | 0.011                    | 10.6                    | 0.750 [19.05]    | 0.057 [1.45]                 |
| IHB-3 | 27                          | $\pm 10$    | 0.012                    | 10.2                    | 0.800 [20.32]    | 0.057 [1.45]                 |
| IHB-3 | 33                          | $\pm 10$    | 0.017                    | 8.5                     | 0.780 [19.81]    | 0.051 [1.29]                 |
| IHB-3 | 39                          | $\pm 10$    | 0.022                    | 7.5                     | 0.780 [19.81]    | 0.051 [1.29]                 |
| IHB-3 | 47                          | $\pm 10$    | 0.024                    | 7.2                     | 0.760 [19.30]    | 0.045 [1.15]                 |
| IHB-3 | 56                          | $\pm 10$    | 0.026                    | 6.9                     | 0.760 [19.30]    | 0.045 [1.15]                 |
| IHB-3 | 68                          | $\pm 10$    | 0.029                    | 6.5                     | 0.760 [19.30]    | 0.045 [1.15]                 |
| IHB-3 | 82                          | $\pm 10$    | 0.032                    | 6.2                     | 0.760 [19.30]    | 0.045 [1.150]                |
| IHB-3 | 100                         | $\pm 10$    | 0.034                    | 6.0                     | 0.760 [19.30]    | 0.045 [1.150]                |
| IHB-3 | 120                         | $\pm 10$    | 0.046                    | 5.2                     | 0.740 [18.80]    | 0.040 [1.020]                |
| IHB-3 | 150                         | $\pm 10$    | 0.064                    | 4.4                     | 0.720 [18.29]    | 0.036 [0.912]                |
| IHB-3 | 180                         | $\pm 10$    | 0.072                    | 4.1                     | 0.720 [18.29]    | 0.036 [0.912]                |
| IHB-3 | 220                         | $\pm 10$    | 0.080                    | 3.9                     | 0.790 [20.07]    | 0.036 [0.912]                |
| IHB-3 | 270                         | $\pm 10$    | 0.110                    | 3.4                     | 0.770 [19.56]    | 0.032 [0.812]                |
| IHB-3 | 330                         | $\pm 10$    | 0.122                    | 3.2                     | 0.770 [19.56]    | 0.032 [0.812]                |
| IHB-3 | 390                         | $\pm 10$    | 0.169                    | 2.7                     | 0.740 [18.80]    | 0.028 [0.723]                |
| IHB-3 | 470                         | $\pm 10$    | 0.187                    | 2.6                     | 0.740 [18.80]    | 0.028 [0.723]                |
| IHB-3 | 560                         | $\pm 10$    | 0.205                    | 2.5                     | 0.740 [18.80]    | 0.028 [0.723]                |
| IHB-3 | 680                         | $\pm 10$    | 0.256                    | 2.2                     | 0.725 [18.42]    | 0.025 [0.644]                |
| IHB-3 | 820                         | $\pm 10$    | 0.288                    | 2.1                     | 0.725 [18.42]    | 0.025 [0.644]                |
| IHB-3 | 1000                        | $\pm 10$    | 0.426                    | 1.7                     | 0.715 [18.16]    | 0.023 [0.573]                |
| IHB-3 | 1200                        | $\pm 10$    | 0.462                    | 1.6                     | 0.760 [19.30]    | 0.023 [0.573]                |
| IHB-3 | 1500                        | $\pm 10$    | 0.518                    | 1.5                     | 0.760 [19.30]    | 0.023 [0.573]                |
| IHB-3 | 1800                        | $\pm 10$    | 0.705                    | 1.3                     | 0.740 [18.80]    | 0.020 [0.510]                |
| IHB-3 | 2200                        | $\pm 10$    | 1.020                    | 1.1                     | 0.720 [18.29]    | 0.018 [0.455]                |
| IHB-3 | 2700                        | $\pm 10$    | 1.140                    | 1.0                     | 0.720 [18.29]    | 0.018 [0.455]                |
| IHB-3 | 3300                        | $\pm 10$    | 1.270                    | 1.0                     | 0.720 [18.29]    | 0.018 [0.455]                |
| IHB-3 | 3900                        | $\pm 10$    | 1.670                    | 0.9                     | 0.700 [17.78]    | 0.016 [0.405]                |
| IHB-3 | 4700                        | $\pm 10$    | 1.860                    | 0.8                     | 0.730 [18.54]    | 0.016 [0.405]                |
| IHB-4 | 1.8                         | $\pm 20$    | 0.002                    | 33.8                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-4 | 2.2                         | $\pm 20$    | 0.002                    | 33.8                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-4 | 2.7                         | $\pm 20$    | 0.003                    | 27.6                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-4 | 3.3                         | $\pm 20$    | 0.003                    | 27.6                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-4 | 3.9                         | $\pm 20$    | 0.003                    | 27.6                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-4 | 4.7                         | $\pm 20$    | 0.003                    | 27.6                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-4 | 5.6                         | $\pm 20$    | 0.004                    | 23.9                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-4 | 6.8                         | $\pm 20$    | 0.004                    | 23.9                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-4 | 8.2                         | $\pm 20$    | 0.004                    | 23.9                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-4 | 10                          | $\pm 10$    | 0.005                    | 21.4                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-4 | 12                          | $\pm 10$    | 0.005                    | 21.4                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-4 | 15                          | $\pm 10$    | 0.006                    | 19.5                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-4 | 18                          | $\pm 10$    | 0.008                    | 16.9                    | 1.10 [27.94]     | 0.064 [1.63]                 |
| IHB-4 | 22                          | $\pm 10$    | 0.009                    | 15.9                    | 1.10 [27.94]     | 0.064 [1.63]                 |
| IHB-4 | 27                          | $\pm 10$    | 0.010                    | 15.1                    | 1.10 [27.94]     | 0.064 [1.63]                 |
| IHB-4 | 33                          | $\pm 10$    | 0.011                    | 14.4                    | 1.10 [27.94]     | 0.064 [1.63]                 |
| IHB-4 | 39                          | $\pm 10$    | 0.012                    | 13.8                    | 1.10 [27.94]     | 0.064 [1.63]                 |
| IHB-4 | 47                          | $\pm 10$    | 0.018                    | 11.3                    | 1.10 [27.94]     | 0.057 [1.45]                 |
| IHB-4 | 56                          | $\pm 10$    | 0.019                    | 11.0                    | 1.11 [28.19]     | 0.057 [1.45]                 |
| IHB-4 | 68                          | $\pm 10$    | 0.021                    | 10.4                    | 1.11 [28.19]     | 0.057 [1.45]                 |
| IHB-4 | 82                          | $\pm 10$    | 0.023                    | 10.0                    | 1.11 [28.19]     | 0.057 [1.45]                 |
| IHB-4 | 100                         | $\pm 10$    | 0.025                    | 9.6                     | 1.11 [28.19]     | 0.057 [1.45]                 |
| IHB-4 | 120                         | $\pm 10$    | 0.028                    | 9.0                     | 1.11 [28.19]     | 0.057 [1.45]                 |
| IHB-4 | 150                         | $\pm 10$    | 0.040                    | 7.6                     | 1.10 [27.94]     | 0.051 [1.29]                 |
| IHB-4 | 180                         | $\pm 10$    | 0.045                    | 7.1                     | 1.10 [27.94]     | 0.051 [1.29]                 |
| IHB-4 | 220                         | $\pm 10$    | 0.050                    | 6.8                     | 1.10 [27.94]     | 0.051 [1.29]                 |
| IHB-4 | 270                         | $\pm 10$    | 0.056                    | 6.4                     | 1.10 [27.94]     | 0.051 [1.29]                 |
| IHB-4 | 330                         | $\pm 10$    | 0.074                    | 5.6                     | 1.16 [29.46]     | 0.045 [1.15]                 |
| IHB-4 | 390                         | $\pm 10$    | 0.082                    | 5.3                     | 1.13 [28.70]     | 0.045 [1.15]                 |
| IHB-4 | 470                         | $\pm 10$    | 0.114                    | 4.5                     | 1.13 [28.70]     | 0.040 [1.02]                 |
| IHB-4 | 560                         | $\pm 10$    | 0.125                    | 4.3                     | 1.13 [28.70]     | 0.040 [1.02]                 |
| IHB-4 | 680                         | $\pm 10$    | 0.139                    | 4.1                     | 1.13 [28.70]     | 0.040 [1.02]                 |
| IHB-4 | 820                         | $\pm 10$    | 0.154                    | 3.9                     | 1.13 [28.70]     | 0.040 [1.02]                 |
| IHB-4 | 1000                        | $\pm 10$    | 0.216                    | 3.3                     | 1.10 [27.94]     | 0.036 [0.912]                |
| IHB-4 | 1200                        | $\pm 10$    | 0.232                    | 3.1                     | 1.10 [27.94]     | 0.036 [0.912]                |
| IHB-4 | 1500                        | $\pm 10$    | 0.324                    | 2.7                     | 1.14 [28.96]     | 0.032 [0.812]                |
| IHB-4 | 1800                        | $\pm 10$    | 0.360                    | 2.5                     | 1.14 [28.96]     | 0.032 [0.812]                |
| IHB-4 | 2200                        | $\pm 10$    | 0.494                    | 2.2                     | 1.11 [28.19]     | 0.028 [0.723]                |
| IHB-4 | 2700                        | $\pm 10$    | 0.555                    | 2.0                     | 1.11 [28.19]     | 0.028 [0.723]                |
| IHB-4 | 3300                        | $\pm 10$    | 0.773                    | 1.7                     | 1.09 [27.69]     | 0.025 [0.644]                |

**STANDARD ELECTRICAL SPECIFICATIONS**

| MODEL | IND. AT 1 kHz<br>( $\mu$ H) | TOL.<br>(%) | DCR MAX.<br>( $\Omega$ ) | RATED DC CURRENT<br>(A) | LEAD "E" SPACING | MAXIMUM LEAD "F"<br>DIAMETER |
|-------|-----------------------------|-------------|--------------------------|-------------------------|------------------|------------------------------|
| IHB-4 | 3900                        | $\pm 10$    | 0.845                    | 1.6                     | 1.09 [27.69]     | 0.025 [0.644]                |
| IHB-4 | 4700                        | $\pm 10$    | 1.140                    | 1.4                     | 1.07 [27.18]     | 0.023 [0.573]                |
| IHB-4 | 5600                        | $\pm 10$    | 1.600                    | 1.2                     | 1.05 [26.67]     | 0.020 [0.510]                |
| IHB-4 | 6800                        | $\pm 10$    | 1.760                    | 1.1                     | 1.05 [26.67]     | 0.020 [0.510]                |
| IHB-4 | 8200                        | $\pm 10$    | 1.950                    | 1.1                     | 1.09 [27.69]     | 0.020 [0.510]                |
| IHB-4 | 10 000                      | $\pm 10$    | 2.760                    | 0.9                     | 1.07 [27.18]     | 0.018 [0.455]                |
| IHB-4 | 12 000                      | $\pm 10$    | 3.040                    | 0.9                     | 1.07 [27.18]     | 0.018 [0.455]                |
| IHB-4 | 15 000                      | $\pm 10$    | 3.390                    | 0.8                     | 1.07 [27.18]     | 0.018 [0.455]                |
| IHB-5 | 1.8                         | $\pm 20$    | 0.002                    | 36.2                    | 1.13 [28.70]     | 0.081 [2.05]                 |
| IHB-5 | 2.2                         | $\pm 20$    | 0.002                    | 36.2                    | 1.13 [28.70]     | 0.081 [2.05]                 |
| IHB-5 | 2.7                         | $\pm 20$    | 0.002                    | 36.2                    | 1.13 [28.70]     | 0.081 [2.05]                 |
| IHB-5 | 3.3                         | $\pm 20$    | 0.002                    | 36.2                    | 1.13 [28.70]     | 0.081 [2.05]                 |
| IHB-5 | 3.9                         | $\pm 20$    | 0.003                    | 29.5                    | 1.13 [28.70]     | 0.081 [2.05]                 |
| IHB-5 | 4.7                         | $\pm 20$    | 0.003                    | 29.5                    | 1.13 [28.70]     | 0.081 [2.05]                 |
| IHB-5 | 5.6                         | $\pm 20$    | 0.003                    | 29.5                    | 1.13 [28.70]     | 0.081 [2.05]                 |
| IHB-5 | 6.8                         | $\pm 20$    | 0.003                    | 29.5                    | 1.13 [28.70]     | 0.081 [2.05]                 |
| IHB-5 | 8.2                         | $\pm 20$    | 0.003                    | 29.5                    | 1.13 [28.70]     | 0.081 [2.05]                 |
| IHB-5 | 10                          | $\pm 10$    | 0.004                    | 25.6                    | 1.13 [28.70]     | 0.081 [2.05]                 |
| IHB-5 | 12                          | $\pm 10$    | 0.004                    | 25.6                    | 1.13 [28.70]     | 0.081 [2.05]                 |
| IHB-5 | 15                          | $\pm 10$    | 0.005                    | 22.9                    | 1.13 [28.70]     | 0.081 [2.05]                 |
| IHB-5 | 18                          | $\pm 10$    | 0.007                    | 19.3                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-5 | 22                          | $\pm 10$    | 0.007                    | 19.3                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-5 | 27                          | $\pm 10$    | 0.008                    | 18.1                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-5 | 33                          | $\pm 10$    | 0.009                    | 17.0                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-5 | 39                          | $\pm 10$    | 0.010                    | 16.2                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-5 | 47                          | $\pm 10$    | 0.011                    | 15.4                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-5 | 56                          | $\pm 10$    | 0.013                    | 14.2                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-5 | 68                          | $\pm 10$    | 0.015                    | 13.2                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-5 | 82                          | $\pm 10$    | 0.017                    | 12.4                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-5 | 100                         | $\pm 10$    | 0.018                    | 12.1                    | 1.10 [27.94]     | 0.072 [1.83]                 |
| IHB-5 | 120                         | $\pm 10$    | 0.022                    | 10.9                    | 1.08 [27.43]     | 0.064 [1.63]                 |
| IHB-5 | 150                         | $\pm 10$    | 0.025                    | 10.2                    | 1.08 [27.43]     | 0.064 [1.63]                 |
| IHB-5 | 180                         | $\pm 10$    | 0.035                    | 8.6                     | 1.12 [28.45]     | 0.057 [1.45]                 |
| IHB-5 | 220                         | $\pm 10$    | 0.040                    | 8.1                     | 1.12 [28.45]     | 0.057 [1.45]                 |
| IHB-5 | 270                         | $\pm 10$    | 0.044                    | 7.7                     | 1.12 [28.45]     | 0.057 [1.45]                 |
| IHB-5 | 330                         | $\pm 10$    | 0.049                    | 7.3                     | 1.12 [28.45]     | 0.057 [1.45]                 |
| IHB-5 | 390                         | $\pm 10$    | 0.070                    | 6.1                     | 1.09 [27.69]     | 0.051 [1.29]                 |
| IHB-5 | 470                         | $\pm 10$    | 0.078                    | 5.8                     | 1.09 [27.69]     | 0.051 [1.29]                 |
| IHB-5 | 560                         | $\pm 10$    | 0.105                    | 5.0                     | 1.07 [27.18]     | 0.045 [1.15]                 |
| IHB-5 | 680                         | $\pm 10$    | 0.115                    | 4.8                     | 1.07 [27.18]     | 0.045 [1.15]                 |
| IHB-5 | 820                         | $\pm 10$    | 0.127                    | 4.5                     | 1.07 [27.18]     | 0.045 [1.15]                 |
| IHB-5 | 1000                        | $\pm 10$    | 0.176                    | 3.9                     | 1.05 [26.67]     | 0.040 [1.02]                 |
| IHB-5 | 1200                        | $\pm 10$    | 0.195                    | 3.7                     | 1.05 [26.67]     | 0.040 [1.02]                 |
| IHB-5 | 1500                        | $\pm 10$    | 0.274                    | 3.1                     | 1.03 [26.16]     | 0.036 [0.912]                |
| IHB-5 | 1800                        | $\pm 10$    | 0.302                    | 2.9                     | 1.10 [27.94]     | 0.036 [0.912]                |
| IHB-5 | 2200                        | $\pm 10$    | 0.338                    | 2.8                     | 1.10 [27.94]     | 0.036 [0.912]                |
| IHB-5 | 2700                        | $\pm 10$    | 0.459                    | 2.4                     | 1.08 [27.43]     | 0.032 [0.812]                |
| IHB-5 | 3300                        | $\pm 10$    | 0.642                    | 2.0                     | 1.06 [26.92]     | 0.028 [0.723]                |
| IHB-5 | 3900                        | $\pm 10$    | 0.699                    | 1.9                     | 1.06 [26.92]     | 0.028 [0.723]                |
| IHB-5 | 4700                        | $\pm 10$    | 0.775                    | 1.8                     | 1.06 [26.92]     | 0.028 [0.723]                |
| IHB-5 | 5600                        | $\pm 10$    | 0.843                    | 1.8                     | 1.06 [26.92]     | 0.028 [0.723]                |
| IHB-5 | 6800                        | $\pm 10$    | 1.150                    | 1.5                     | 1.04 [26.42]     | 0.025 [0.644]                |
| IHB-5 | 8200                        | $\pm 10$    | 1.260                    | 1.4                     | 1.09 [27.69]     | 0.025 [0.644]                |
| IHB-5 | 10 000                      | $\pm 10$    | 1.740                    | 1.2                     | 1.07 [27.18]     | 0.023 [0.573]                |
| IHB-5 | 12 000                      | $\pm 10$    | 1.920                    | 1.2                     | 1.07 [27.18]     | 0.023 [0.573]                |
| IHB-5 | 15 000                      | $\pm 10$    | 2.170                    | 1.1                     | 1.07 [27.18]     | 0.023 [0.573]                |
| IHB-6 | 4.7                         | $\pm 20$    | 0.002                    | 43.5                    | 1.43 [36.32]     | 0.102 [2.59]                 |
| IHB-6 | 5.6                         | $\pm 20$    | 0.002                    | 43.5                    | 1.43 [36.32]     | 0.102 [2.59]                 |
| IHB-6 | 6.8                         | $\pm 20$    | 0.003                    | 35.5                    | 1.43 [36.32]     | 0.102 [2.59]                 |
| IHB-6 | 8.2                         | $\pm 20$    | 0.003                    | 35.5                    | 1.43 [36.32]     | 0.102 [2.59]                 |
| IHB-6 | 10                          | $\pm 10$    | 0.003                    | 35.5                    | 1.43 [36.32]     | 0.102 [2.59]                 |
| IHB-6 | 12                          | $\pm 10$    | 0.004                    | 30.7                    | 1.43 [36.32]     | 0.102 [2.59]                 |
| IHB-6 | 15                          | $\pm 10$    | 0.004                    | 30.7                    | 1.43 [36.32]     | 0.102 [2.59]                 |
| IHB-6 | 18                          | $\pm 10$    | 0.005                    | 27.5                    | 1.43 [36.32]     | 0.102 [2.59]                 |
| IHB-6 | 22                          | $\pm 10$    | 0.005                    | 27.5                    | 1.43 [36.32]     | 0.102 [2.59]                 |
| IHB-6 | 27                          | $\pm 10$    | 0.006                    | 25.1                    | 1.43 [36.32]     | 0.102 [2.59]                 |
| IHB-6 | 33                          | $\pm 10$    | 0.006                    | 25.1                    | 1.43 [36.32]     | 0.102 [2.59]                 |
| IHB-6 | 39                          | $\pm 10$    | 0.006                    | 25.1                    | 1.43 [36.32]     | 0.102 [2.59]                 |
| IHB-6 | 47                          | $\pm 10$    | 0.008                    | 21.7                    | 1.53 [38.86]     | 0.102 [2.59]                 |
| IHB-6 | 56                          | $\pm 10$    | 0.009                    | 20.5                    | 1.53 [38.86]     | 0.102 [2.59]                 |

**STANDARD ELECTRICAL SPECIFICATIONS**

| MODEL | IND. AT 1 kHz<br>( $\mu$ H) | TOL.<br>(%) | DCR MAX.<br>( $\Omega$ ) | RATED DC CURRENT<br>(A) | LEAD "E" SPACING | MAXIMUM LEAD "F"<br>DIAMETER |
|-------|-----------------------------|-------------|--------------------------|-------------------------|------------------|------------------------------|
| IHB-6 | 68                          | $\pm 10$    | 0.009                    | 20.5                    | 1.53 [38.86]     | 0.102 [2.59]                 |
| IHB-6 | 82                          | $\pm 10$    | 0.010                    | 19.4                    | 1.53 [38.86]     | 0.102 [2.59]                 |
| IHB-6 | 100                         | $\pm 10$    | 0.014                    | 16.4                    | 1.45 [36.83]     | 0.081 [2.05]                 |
| IHB-6 | 120                         | $\pm 10$    | 0.015                    | 15.9                    | 1.45 [36.83]     | 0.081 [2.05]                 |
| IHB-6 | 150                         | $\pm 10$    | 0.023                    | 12.8                    | 1.41 [35.81]     | 0.072 [1.83]                 |
| IHB-6 | 180                         | $\pm 10$    | 0.025                    | 12.3                    | 1.41 [35.81]     | 0.072 [1.83]                 |
| IHB-6 | 220                         | $\pm 10$    | 0.028                    | 11.6                    | 1.41 [35.81]     | 0.072 [1.83]                 |
| IHB-6 | 270                         | $\pm 10$    | 0.030                    | 11.2                    | 1.41 [35.81]     | 0.072 [1.83]                 |
| IHB-6 | 330                         | $\pm 10$    | 0.040                    | 9.7                     | 1.38 [35.05]     | 0.064 [1.63]                 |
| IHB-6 | 390                         | $\pm 10$    | 0.055                    | 8.3                     | 1.35 [34.29]     | 0.057 [1.45]                 |
| IHB-6 | 470                         | $\pm 10$    | 0.061                    | 7.9                     | 1.35 [34.29]     | 0.057 [1.45]                 |
| IHB-6 | 560                         | $\pm 10$    | 0.068                    | 7.5                     | 1.35 [34.29]     | 0.057 [1.45]                 |
| IHB-6 | 680                         | $\pm 10$    | 0.094                    | 6.3                     | 1.33 [33.78]     | 0.051 [1.29]                 |
| IHB-6 | 820                         | $\pm 10$    | 0.104                    | 6.0                     | 1.33 [33.78]     | 0.051 [1.29]                 |
| IHB-6 | 1000                        | $\pm 10$    | 0.143                    | 5.1                     | 1.31 [33.27]     | 0.045 [1.15]                 |
| IHB-6 | 1200                        | $\pm 10$    | 0.156                    | 4.9                     | 1.40 [35.56]     | 0.045 [1.15]                 |
| IHB-6 | 1500                        | $\pm 10$    | 0.219                    | 4.2                     | 1.37 [34.80]     | 0.040 [1.02]                 |
| IHB-6 | 1800                        | $\pm 10$    | 0.241                    | 4.0                     | 1.37 [34.80]     | 0.040 [1.02]                 |
| IHB-6 | 2200                        | $\pm 10$    | 0.270                    | 3.7                     | 1.37 [34.80]     | 0.040 [1.02]                 |
| IHB-6 | 2700                        | $\pm 10$    | 0.364                    | 3.2                     | 1.34 [34.04]     | 0.036 [0.912]                |
| IHB-6 | 3300                        | $\pm 10$    | 0.498                    | 2.8                     | 1.32 [33.53]     | 0.032 [0.812]                |
| IHB-6 | 3900                        | $\pm 10$    | 0.548                    | 2.6                     | 1.32 [33.53]     | 0.032 [0.812]                |
| IHB-6 | 4700                        | $\pm 10$    | 0.608                    | 2.5                     | 1.32 [33.53]     | 0.032 [0.812]                |
| IHB-6 | 5600                        | $\pm 10$    | 0.671                    | 2.4                     | 1.38 [35.05]     | 0.032 [0.812]                |
| IHB-6 | 6800                        | $\pm 10$    | 0.750                    | 2.2                     | 1.38 [35.05]     | 0.032 [0.812]                |
| IHB-6 | 8200                        | $\pm 10$    | 1.030                    | 1.9                     | 1.35 [34.29]     | 0.028 [0.723]                |
| IHB-6 | 10 000                      | $\pm 10$    | 1.160                    | 1.8                     | 1.35 [34.29]     | 0.028 [0.723]                |
| IHB-6 | 12 000                      | $\pm 10$    | 1.540                    | 1.6                     | 1.33 [33.78]     | 0.025 [0.644]                |
| IHB-6 | 15 000                      | $\pm 10$    | 1.750                    | 1.5                     | 1.33 [33.78]     | 0.025 [0.644]                |
| IHB-6 | 18 000                      | $\pm 10$    | 1.940                    | 1.4                     | 1.38 [35.05]     | 0.025 [0.644]                |
| IHB-6 | 22 000                      | $\pm 10$    | 2.740                    | 1.2                     | 1.36 [34.54]     | 0.023 [0.573]                |
| IHB-6 | 27 000                      | $\pm 10$    | 3.710                    | 1.0                     | 1.33 [33.78]     | 0.020 [0.510]                |
| IHB-6 | 33 000                      | $\pm 10$    | 4.160                    | 1.0                     | 1.33 [33.78]     | 0.020 [0.510]                |
| IHB-6 | 39 000                      | $\pm 10$    | 5.550                    | 0.8                     | 1.31 [33.27]     | 0.018 [0.455]                |
| IHB-6 | 47 000                      | $\pm 10$    | 6.190                    | 0.8                     | 1.34 [34.04]     | 0.018 [0.455]                |

**MARKING**

- Model
- Value
- Date code

**ORDERING INFORMATION**

| IHB-1 | 10 $\mu$ H       | $\pm 10$ %           | EB           | e2                             |
|-------|------------------|----------------------|--------------|--------------------------------|
| MODEL | INDUCTANCE VALUE | INDUCTANCE TOLERANCE | PACKAGE CODE | JEDEC® LEAD (Pb)-FREE STANDARD |

**GLOBAL PART NUMBER**

|       |   |   |   |              |   |                  |   |   |                      |
|-------|---|---|---|--------------|---|------------------|---|---|----------------------|
| I     | H | B | 1 | E            | B | 1                | 0 | 0 | K                    |
| MODEL |   |   |   | PACKAGE CODE |   | INDUCTANCE VALUE |   |   | INDUCTANCE TOLERANCE |



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