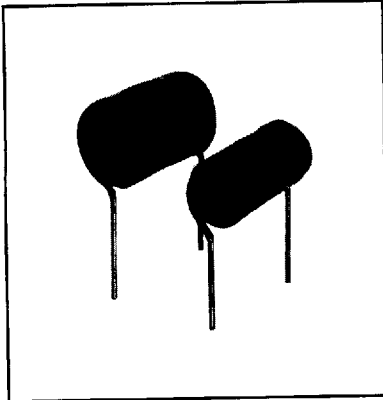


# MODEL IH Filter Inductors High Current



### FEATURES

- Printed circuit mounting
- Pre-tinned leads
- Protected by polyolefin tubing - flame retardant UL type VW-1 per MIL-I-23053/5, Class 3 requirements

### APPLICATIONS

Noise filtering for switching regulators, power amplifiers, power supplies and SCR or Triac control circuits.

### 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.
- Operating Temperature:** - 55°C to + 125°C (no load).  
- 55°C to + 75°C (at full rated current).

| STANDARD ELECTRICAL SPECIFICATIONS |                   |       |                 |                           |                            |
|------------------------------------|-------------------|-------|-----------------|---------------------------|----------------------------|
| MODEL                              | IND. @ 1 kHz (μH) | TOL.  | DCR MAX. (Ohms) | RATED CURRENT (Max. Amps) | INCREMENTAL CURRENT (Amps) |
| IH-3                               | 5                 | ± 10% | .015            | 10.0                      | 25                         |
| IH-3                               | 10                | ± 10% | .018            | 9.0                       | 19                         |
| IH-3                               | 27                | ± 10% | .035            | 7.0                       | 12                         |
| IH-3                               | 50                | ± 10% | .050            | 5.6                       | 8                          |
| IH-3                               | 100               | ± 10% | .065            | 5.2                       | 6                          |
| IH-3                               | 150               | ± 10% | .075            | 5.0                       | 5                          |
| IH-3                               | 250               | ± 10% | .090            | 5.0                       | 4                          |
| IH-5                               | 5                 | ± 10% | .012            | 14.0                      | 25                         |
| IH-5                               | 10                | ± 10% | .015            | 12.0                      | 19                         |
| IH-5                               | 27                | ± 10% | .025            | 9.0                       | 13                         |
| IH-5                               | 50                | ± 10% | .030            | 8.0                       | 10                         |
| IH-5                               | 68                | ± 10% | .035            | 7.5                       | 9                          |
| IH-5                               | 100               | ± 10% | .050            | 7.5                       | 7                          |
| IH-5                               | 150               | ± 10% | .060            | 7.0                       | 5                          |
| IH-10                              | 5                 | ± 10% | .010            | 19.0                      | 25                         |
| IH-10                              | 10                | ± 10% | .012            | 16.0                      | 19                         |
| IH-10                              | 27                | ± 10% | .018            | 12.5                      | 12                         |
| IH-10                              | 50                | ± 10% | .025            | 11.0                      | 10                         |
| IH-10                              | 68                | ± 10% | .027            | 10.0                      | 8                          |
| IH-10                              | 100               | ± 10% | .030            | 10.0                      | 7                          |
| IH-15                              | 5                 | ± 10% | .008            | 24.0                      | 25                         |
| IH-15                              | 10                | ± 10% | .010            | 20.0                      | 19                         |
| IH-15                              | 27                | ± 10% | .015            | 16.0                      | 14                         |
| IH-15                              | 50                | ± 10% | .020            | 15.0                      | 10                         |

| DIMENSIONAL CONFIGURATIONS                 |           |               |              |                 |                |
|--|-----------|---------------|--------------|-----------------|----------------|
| [Numbers in brackets indicate millimeters] |           |               |              |                 |                |
|  |           |               |              |                 |                |
| MODEL                                      | IND. (μH) | A (Max.)      | B (Max.)     | C ± .062 [1.59] | D ± .005 [130] |
| IH-3                                       | 5         | .875 [22.23]  | .600 [15.24] | .500 [12.70]    | .042 [1.067]   |
| IH-3                                       | 10        | 1.125 [28.58] | .625 [15.88] | .687 [17.45]    | .042 [1.067]   |
| IH-3                                       | 27        | .875 [22.23]  | .800 [20.32] | .437 [11.10]    | .042 [1.067]   |
| IH-3                                       | 50        | .875 [22.23]  | .800 [20.32] | .750 [19.05]    | .042 [1.067]   |
| IH-3                                       | 100       | 1.125 [28.58] | .800 [20.32] | .937 [23.80]    | .042 [1.067]   |
| IH-3                                       | 150       | 1.375 [34.93] | .800 [20.32] | 1.062 [26.97]   | .042 [1.067]   |
| IH-3                                       | 250       | 1.625 [41.28] | .800 [20.32] | 1.312 [33.32]   | .042 [1.067]   |
| IH-5                                       | 5         | .875 [22.23]  | .625 [15.88] | .750 [19.05]    | .053 [1.35]    |
| IH-5                                       | 10        | 1.125 [28.58] | .625 [15.88] | 1.0 [25.40]     | .053 [1.35]    |
| IH-5                                       | 27        | .875 [22.23]  | .840 [21.34] | .562 [14.27]    | .053 [1.35]    |
| IH-5                                       | 50        | 1.125 [28.58] | .840 [21.34] | .750 [19.05]    | .053 [1.35]    |
| IH-5                                       | 68        | 1.125 [28.58] | .860 [21.84] | .875 [22.23]    | .053 [1.35]    |
| IH-5                                       | 100       | 1.375 [34.93] | .860 [21.84] | 1.0 [25.40]     | .053 [1.35]    |
| IH-5                                       | 150       | 1.625 [41.28] | .860 [21.84] | 1.250 [31.75]   | .053 [1.35]    |
| IH-10                                      | 5         | 1.125 [28.58] | .635 [16.13] | .812 [20.62]    | .065 [1.65]    |
| IH-10                                      | 10        | 1.375 [34.93] | .635 [16.13] | 1.218 [30.94]   | .065 [1.65]    |
| IH-10                                      | 27        | 1.125 [28.58] | .935 [23.75] | .687 [17.45]    | .065 [1.65]    |
| IH-10                                      | 50        | 1.375 [34.93] | .935 [23.75] | .937 [23.80]    | .065 [1.65]    |
| IH-10                                      | 68        | 1.375 [34.93] | .935 [23.75] | 1.125 [28.58]   | .065 [1.65]    |
| IH-10                                      | 100       | 1.625 [41.28] | .935 [23.75] | 1.312 [33.32]   | .065 [1.65]    |
| IH-15                                      | 5         | 1.375 [34.93] | .700 [17.78] | .937 [23.80]    | .082 [2.08]    |
| IH-15                                      | 10        | 1.687 [42.85] | .700 [17.78] | 1.50 [38.10]    | .082 [2.08]    |
| IH-15                                      | 27        | 1.375 [34.93] | 1.0 [25.40]  | .937 [23.80]    | .082 [2.08]    |
| IH-15                                      | 50        | 1.625 [41.28] | 1.0 [25.40]  | 1.125 [28.58]   | .082 [2.08]    |

| PART MARKING       |  |
|--------------------|--|
| — Dale             |  |
| — Model            |  |
| — Inductance value |  |
| — Date code        |  |

| HOW TO ORDER |                  |                      |
|--------------|------------------|----------------------|
| IH-5         | 10μH             | ± 10%                |
| MODEL        | INDUCTANCE VALUE | INDUCTANCE TOLERANCE |