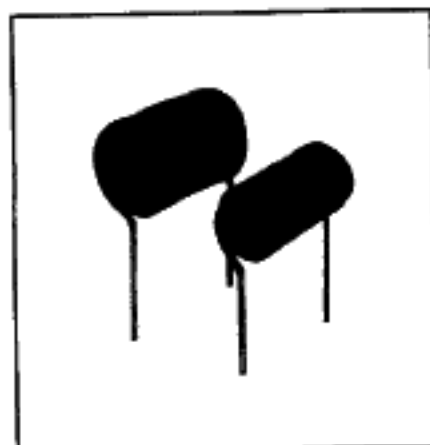


# MODEL IH Filter Inductors High Current



## 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.<br>@ 1 kHz<br>( $\mu$ H) | TOL.       | DCR<br>MAX.<br>(Ohms) | RATED<br>CURRENT<br>(Max. Amps) | INCRE-<br>MENTAL<br>CURRENT<br>(Amps) |
|-------|-------------------------------|------------|-----------------------|---------------------------------|---------------------------------------|
| IH-3  | 5                             | $\pm 10\%$ | .015                  | 10.0                            | 25                                    |
| IH-3  | 10                            | $\pm 10\%$ | .018                  | 9.0                             | 19                                    |
| IH-3  | 27                            | $\pm 10\%$ | .035                  | 7.0                             | 12                                    |
| IH-3  | 50                            | $\pm 10\%$ | .050                  | 5.8                             | 8                                     |
| IH-3  | 100                           | $\pm 10\%$ | .065                  | 5.2                             | 6                                     |
| IH-3  | 150                           | $\pm 10\%$ | .075                  | 5.0                             | 5                                     |
| IH-3  | 250                           | $\pm 10\%$ | .090                  | 5.0                             | 4                                     |
| <hr/> |                               |            |                       |                                 |                                       |
| IH-5  | 5                             | $\pm 10\%$ | .012                  | 14.0                            | 25                                    |
| IH-5  | 10                            | $\pm 10\%$ | .015                  | 12.0                            | 19                                    |
| IH-5  | 27                            | $\pm 10\%$ | .025                  | 9.0                             | 13                                    |
| IH-5  | 50                            | $\pm 10\%$ | .030                  | 8.0                             | 10                                    |
| IH-5  | 68                            | $\pm 10\%$ | .035                  | 7.5                             | 9                                     |
| IH-5  | 100                           | $\pm 10\%$ | .050                  | 7.5                             | 7                                     |
| IH-5  | 150                           | $\pm 10\%$ | .060                  | 7.0                             | 5                                     |
| <hr/> |                               |            |                       |                                 |                                       |
| IH-10 | 5                             | $\pm 10\%$ | .010                  | 19.0                            | 25                                    |
| IH-10 | 10                            | $\pm 10\%$ | .012                  | 16.0                            | 19                                    |
| IH-10 | 27                            | $\pm 10\%$ | .018                  | 12.5                            | 12                                    |
| IH-10 | 50                            | $\pm 10\%$ | .025                  | 11.0                            | 10                                    |
| IH-10 | 68                            | $\pm 10\%$ | .027                  | 10.0                            | 8                                     |
| IH-10 | 100                           | $\pm 10\%$ | .030                  | 10.0                            | 7                                     |
| <hr/> |                               |            |                       |                                 |                                       |
| IH-15 | 5                             | $\pm 10\%$ | .008                  | 24.0                            | 25                                    |
| IH-15 | 10                            | $\pm 10\%$ | .010                  | 20.0                            | 19                                    |
| IH-15 | 27                            | $\pm 10\%$ | .015                  | 16.0                            | 14                                    |
| IH-15 | 50                            | $\pm 10\%$ | .020                  | 15.0                            | 10                                    |

## PART MARKING

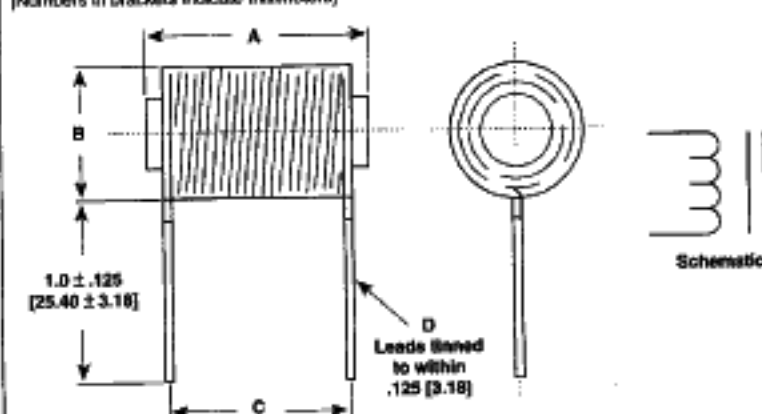
- Dale
- Model
- Inductance value
- Date code

## HOW TO ORDER

| MODEL | INDUCTANCE<br>VALUE | INDUCTANCE<br>TOLERANCE |
|-------|---------------------|-------------------------|
| IH-5  | 10 $\mu$ H          | $\pm 10\%$              |

## DIMENSIONAL CONFIGURATIONS

(Numbers in brackets indicate millimeters)



| MODEL | IND.<br>( $\mu$ H) | A<br>(Max.)   | B<br>(Max.)  | C<br>$\pm .062$ [1.59] | D<br>$\pm .005$ [1.30] |
|-------|--------------------|---------------|--------------|------------------------|------------------------|
| 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] | .667 [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]           |
| <hr/> |                    |               |              |                        |                        |
| 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]            |
| <hr/> |                    |               |              |                        |                        |
| 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]            |
| <hr/> |                    |               |              |                        |                        |
| 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]            |