



## TVH Series • Common Mode EMI Inductors

**AlfaMag Electronics**

TVH Series low cost toroidal inductors designed to attenuate conductor noise (EMI) in systems

### Features

- SMD design ideal for pick and place compatability
- Manufactured in ISO-9001:2000, TS-16949:2002 and ISO-14001:2004 certified facility
- Meets lead free reflow level J-STD-020C
- Fully RoHS compliant

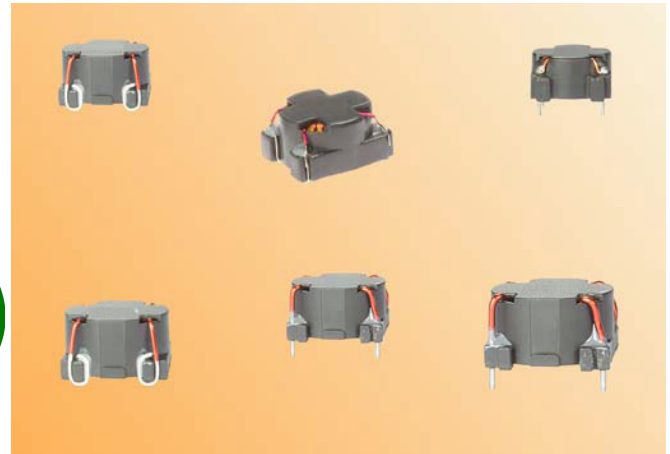
### Electrical Specifications @ 25°C

Test voltage between windings: 500 Vrms

Operating temperature range: -40°C to +125°C

Climatic Category: IEC68-1 40/125/56

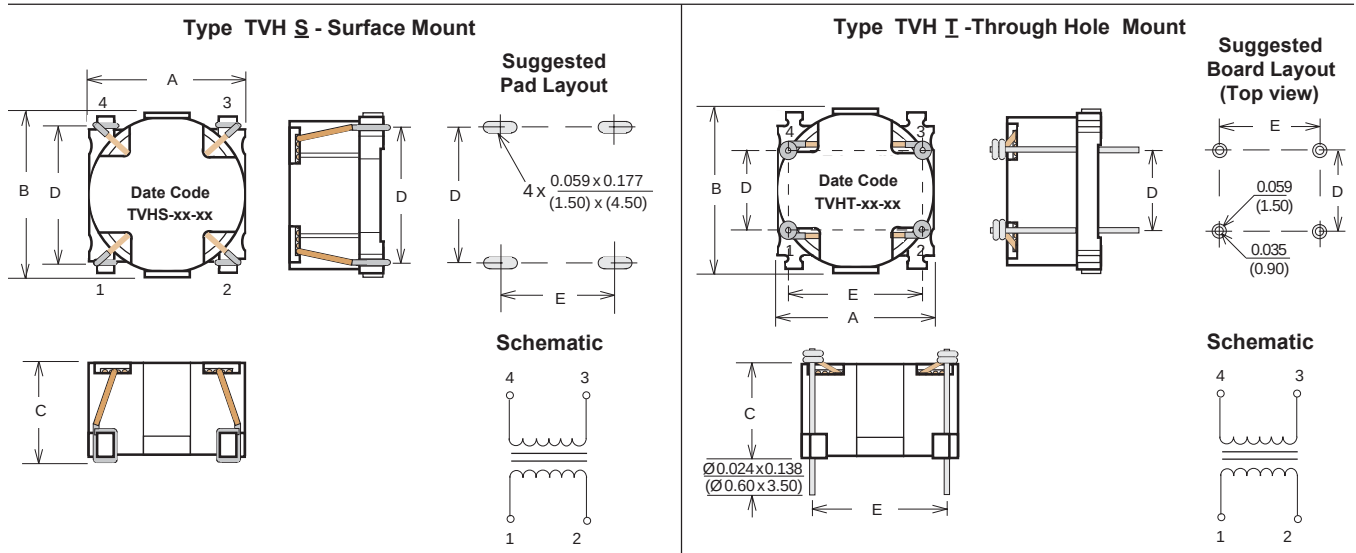
Test frequency: Inductance measured @ 10kHz / 10mV



| Part Number  | Rated RMS Current (Amps) | $L_N$ (mH $\pm 30\%$ ) | DCR (mOhm max.) | SRF (MHz) | Vrms | Package Size |     |
|--------------|--------------------------|------------------------|-----------------|-----------|------|--------------|-----|
|              |                          |                        |                 |           |      | "S"          | "T" |
| TVH_-3.6-102 | 3.60                     | 1.0                    | 50              | 4         | 1500 | SC5          | TC5 |
| TVH_-1.5-152 | 1.50                     | 1.5                    | 60              | 2         | 1500 | SC3          | TC3 |
| TVH_-2.5-302 | 2.50                     | 3.0                    | 80              | 2.2       | 1500 | SC5          | TC5 |
| TVH_-1.0-103 | 1.00                     | 10.0                   | 450             | 0.5       | 1500 | SC3          | TC3 |
| TVH_-0.5-223 | 0.50                     | 22.0                   | 850             | 0.3       | 1500 | SC3          | TC3 |

**Note:** When ordering, add "S" or "T" to the basic part number to denote preferred mounting style. Example: TVHS-1.0-223 for SMD or TVHT-1.0-223 for through hole.

### Dimensions



| Mounting Style | Size Code | Dimensions - Inches $\pm 0.010$ (mm $\pm 0.25$ ) |                  |                           |                  |                  |
|----------------|-----------|--------------------------------------------------|------------------|---------------------------|------------------|------------------|
|                |           | A                                                | B                | C                         | D                | E                |
| "S"<br>SMD     | SC3       | 0.551<br>(14.00)                                 | 0.630<br>(16.00) | 0.350 max.<br>(8.90 max.) | 0.530<br>(13.46) | 0.340<br>(8.64)  |
|                | SC5       | 0.662<br>(16.82)                                 | 0.760<br>(19.31) | 0.390 max.<br>(9.90 max.) | 0.660<br>(16.76) | 0.445<br>(11.30) |
| "T"<br>TH      | TC3       | 0.551<br>(14.00)                                 | 0.630<br>(16.00) | 0.327 max.<br>(8.30 max.) | 0.500<br>(12.70) | 0.400<br>(10.16) |
|                | TC5       | 0.662<br>(16.82)                                 | 0.760<br>(19.31) | 0.362 max.<br>(9.20 max.) | 0.500<br>(12.70) | 0.500<br>(12.70) |

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