

MAX. DIM :
$\mathrm{L}=19.05 \mathrm{~mm}$
$\mathrm{W}=12.50 \mathrm{~mm}$ $H=16.51 \mathrm{~mm}$

- For use in high frequency DC/DC converters.
- Low radiation.
- Low core loss
- Current handling up to 31 Amps.
- Energy storage of $380 \mu \mathrm{~J}$.


## MECHANICAL SPECIFICATIONS

Front View Side View/Bottom View
horizontal version


T50147 HOLE DIA. $0.069^{\prime \prime} \times 0.124$ " (X2) T50179 HOLE DIA. $0.055^{\prime \prime} \times 0.106$ " (X2)

INCHES [mm]

## ELECTRICAL SPECIFICATIONS <br> VERTICAL VERSION

| FALCO PART NUMBER | RoHS PART NUMBER | $\mathrm{OCL}(\mu \mathrm{H})^{1}$ | TOL | $\begin{array}{r} \text { DCR } \\ (\Omega \max ) \end{array}$ | I rating ${ }^{2}$ <br> (Amp) | A max. in / mm | B max. in / mm | C max. in / mm | D Ref. <br> in / mm | Pin Length in / mm | Hole Dia. in / mm |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | T50180 | 0.400 | $\pm 25 \%$ | 0.00100 | 31.00 | 0.669 / 17.00 | $0.492 / 12.50$ | $0.610 / 15.50$ | $0.354 / 9.00$ | $0.157 / 4.00$ | $0.104 / 2.64$ |
|  | *T50147 | 0.570 | $\pm 15 \%$ | 0.00096 | **28.00 | 0.689 / 17.50 | 0.417 / 10.60 | 0.630 / 16.00 | $0.354 / 9.00$ | $0.130 / 3.30$ |  |
| *T50023 | T5L023 | 0.828 | $\pm 15 \%$ | 0.00114 | 30.50 | 0.690 / 17.53 | 0.470 / 11.94 | $0.620 / 15.75$ | 0.375 / 9.53 | $0.250 / 6.35$ |  |
| T50022 |  | 0.828 | $\pm 12 \%$ | 0.00135 | 25.20 | 0.750 / 19.05 | $0.450 / 11.43$ | $0.650 / 16.51$ | $0.360 / 9.14$ | $0.250 / 6.35$ | $0.076 / 1.93$ |
|  | *T50179 | 1.100 | $\pm 20 \%$ | 0.00200 | 23.00 | 0.689 / 17.50 | $0.472 / 12.00$ | 0.610 / 15.50 | $0.335 / 8.51$ | $0.157 / 4.00$ |  |
| *T50163 |  | 1.130 | $\pm 15 \%$ | 0.00135 | 26.00 | 0.690 / 17.53 | $0.470 / 11.94$ | $0.620 / 15.75$ | $0.375 / 9.53$ | $0.250 / 6.35$ |  |
|  | T50166 | 1.860 | $\pm 15 \%$ | 0.00264 | **22.00 | $0.700 / 17.78$ | $0.450 / 11.43$ | 0.630 / 16.00 | $0.350 / 8.89$ | 0.126 / 3.20 | 0.069 / 1.75 |
|  | T50103 | 2.300 | $\pm 20 \%$ | 0.00550 | 12.50 | 0.709 / 18.00 | 0.394 / 10.00 | 0.630 / 16.00 | 0.338 / 8.58 | $0.157 / 4.00$ | $0.048 / 1.22$ |

HORIZONTAL VERSION

| FALCO PART NUMBER | RoHS PART NUMBER | OCL $(\mu \mathrm{H})^{1}$ | TOL | $\begin{array}{r} \mathrm{DCR} \\ (\Omega \max ) \end{array}$ | I rating ${ }^{2}$ (Amp) | A max. in / mm | B max. in / mm | C max. in / mm | D Ref. in / mm | Pin Length in / mm | Hole Dia. in / mm |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | T5H166 | 1.860 | $\pm 15 \%$ | 0.00264 | **22.00 | 0.720 / 18.29 | $0.450 / 11.43$ | 0.720 / 18.29 | 0.270 / 6.86 | $0.134 / 3.40$ | 0.069 / 1.75 |

[^0]1. Inductance tested at 100 KHz 0.25 V .
2. Temperature rise is $45^{\circ} \mathrm{C}$ Typ.
3. Operating Temp. range $-40^{\circ}$ to $+105^{\circ} \mathrm{C}$.

## Power Inductors Shielded - THT Toroidal 13 mm (TIIB1306 Series )

## Inductance vs Current

 electronics


[^0]:    * Part is bifillar wound
    ${ }^{* *} \Delta \mathrm{~T}=\mathbf{4 0}{ }^{\circ} \mathrm{C}$
    RoHS COMPLIANT PRODUCT

