



MAX. DIM :
L = 18.50 mm
W = 11.30 mm
H = 18.20 mm

- For use in high frequency DC/DC converters.
- Low radiation.
- Low core loss
- Current handling up to 30 Amps.
- Vertical and horizontal mounting versions available.
- Energy storage of 220 μ J.

MECHANICAL SPECIFICATIONS

Front View	Side View/Bottom View	PCB Layout (Top)	Schematic
<p>VERTICAL VERSION</p> <p>HORIZONTAL VERSION</p>			
<p>T50053, T50A53 T50055 PIN LENGTH TOL. ± 0.030 [± 0.76] T5A184 PIN LENGTH TOL. ± 0.040 [± 1.00] T5L139 PIN LENGTH: 0.138 [3.50]</p>			<p>INCHES [mm]</p>

ELECTRICAL SPECIFICATIONS

VERTICAL VERSION

FALCO PART NUMBER	RoHS PART NUMBER	OCL(μ H) ¹	TOL	DCR (W max)	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
	T50194	0.158	$\pm 25\%$	0.00065	27.00	0.630 / 16.00	0.445 / 11.30	0.590 / 15.00	0.315 / 8.00	0.138 / 3.50	0.110 / 2.79
	T50205	0.28	$\pm 20\%$	0.00065	30.00	0.680 / 17.27	0.340 / 8.63	0.640 / 16.26	0.310 / 7.87	0.138 / 3.50	0.125 / 3.17
T50053	T5L053	0.44	$\pm 20\%$	0.00105	25.50	0.690 / 17.53	0.400 / 10.16	0.600 / 15.24	0.360 / 9.14	0.150 / 3.81	0.075 / 1.90
	T50184	0.44	$\pm 20\%$	0.00086	25.00	0.680 / 17.27	0.340 / 8.63	0.640 / 16.26	0.310 / 7.87	0.138 / 3.50	0.110 / 2.79
T50139	T5L139	0.63	$\pm 12\%$	0.00168	25.00	0.720 / 18.29	0.440 / 11.18	0.650 / 16.51	0.300 / 7.62	0.250 / 6.35	0.059 / 1.51
T50126	T5L126	0.86	$\pm 20\%$	0.00264	17.00	0.680 / 17.27	0.380 / 9.65	0.640 / 16.26	0.300 / 7.62	0.250 / 6.35	0.059 / 1.51
T5A126		0.86	$\pm 20\%$	0.00264	17.00	0.680 / 17.27	0.380 / 9.65	0.640 / 16.26	0.2526 / 6.41	0.150 / 3.81	0.059 / 1.51
**T50045	**T5L045	0.86	$\pm 12\%$	0.00263	17.00	0.700 / 17.78	0.350 / 8.89	0.580 / 14.73	0.350 / 8.89	0.150 / 3.82	0.125 / 3.17
T50021		1.12	$\pm 20\%$	0.00240	*20.00	0.680 / 17.27	0.380 / 9.65	0.640 / 16.26	0.300 / 7.62	0.250 / 6.35	0.063 / 1.60
	T50A21	1.12	$\pm 15\%$	0.00252	*20.00	0.689 / 17.50	0.362 / 9.20	0.630 / 16.00	0.276 / 7.00	0.157 / 7.00	0.061 / 1.55
T50132		1.41	$\pm 12\%$	0.00230	18.00	0.690 / 17.53	0.400 / 10.16	0.630 / 16.00	0.285 / 7.24	0.250 / 6.35	0.070 / 1.78
T50055		5.05	$\pm 15\%$	0.01266	7.50	0.640 / 16.25	0.330 / 8.38	0.600 / 15.24	0.320 / 8.13	0.150 / 3.81	0.055 / 1.39
T50024		5.05	$\pm 15\%$	0.00870	8.00	0.650 / 16.51	0.350 / 8.89	0.620 / 15.75	0.240 / 6.10	0.250 / 6.35	0.050 / 1.27

**PART IS BIFILLAR WOUND

HORIZONTAL VERSION

FALCO PART NUMBER	RoHS PART NUMBER	OCL(μ H) ¹	TOL	DCR (W max)	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
	T50069	0.158	$\pm 25\%$	0.00057	27.00	0.705 / 17.90	0.375 / 9.52	0.690 / 17.52	0.256 / 6.50	0.138 / 3.50	0.110 / 2.79
	T50183	0.28	$\pm 20\%$	0.00081	25.00	0.717 / 18.21	0.323 / 8.20	0.669 / 17.00	0.250 / 6.35	0.138 / 3.50	0.115 / 2.92
	T5A184	0.42	$\pm 15\%$	0.00078	25.00	0.728 / 18.50	0.354 / 9.00	0.650 / 16.50	0.276 / 7.00	0.157 / 4.00	0.100 / 2.54
	T50A84	0.44	$\pm 20\%$	0.00086	25.00	0.717 / 18.21	0.323 / 8.20	0.669 / 17.00	0.250 / 6.35	0.138 / 3.50	0.110 / 2.79
T50A53	T5LA53	0.44	$\pm 20\%$	0.00112	24.20	0.720 / 18.29	0.400 / 10.16	0.720 / 18.20	0.315 / 8.00	0.150 / 3.81	0.075 / 1.90

1. Inductance tested at 100 KHz 0.25 V.
2. Temperature rise is 40°C Typ, $\Delta T=45^\circ$ C Typ.
3. Operating Temp. range -40° to +105°C.



RoHS COMPLIANT PRODUCT

Inductance vs Current

