

Common Mode Choke 25 mm Toroid

POWER MAGNETICS

(CMT02513 Series)

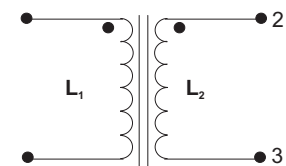
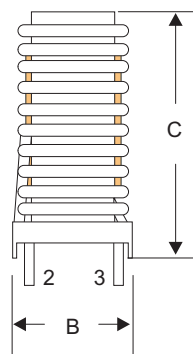
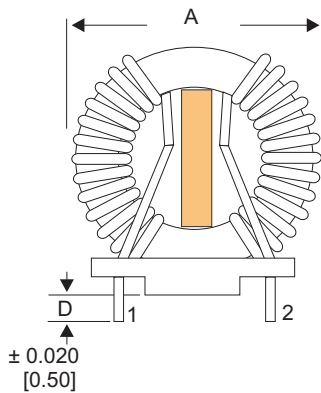


MAX. DIM :
L = 33.02 mm
W= 24.13 mm
H = 38.10 mm

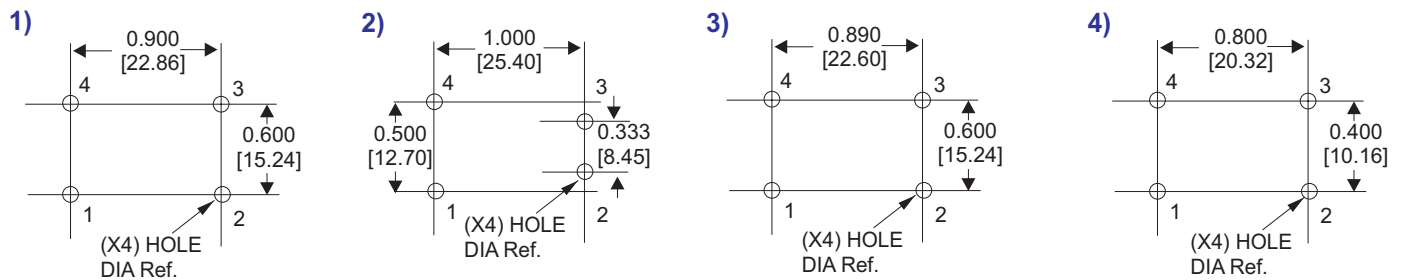
- Frequency range from 50 KHz to 500 KHz.
- Current ratings available up to 32 Amps.
- Inductance values available from 0.116 mH to 13.58 mH
- Excellent coupling leakage factor and mode attenuation.
- 3 mm of creepage between windings.
- Parts meet UL, IEC & VDE safety standards.

MECHANICAL SPECIFICATIONS

Front View Side View Schematic



PCB Layout (Top)



T10040 PIN TOL. ± 0.040 [± 1.00 mm]
 T10009 PIN TOL. ± 0.010 [± 0.25 mm]
 T10157 PIN TOL. ± 0.030 [± 0.76 mm]

INCHES [mm]

ELECTRICAL SPECIFICATIONS

FALCO PART NUMBER	RoHS PART NUMBER	L(mH) ¹ min.	Freq. (KHz)	DCR (mΩ) NOM.	I _{rms} (Amp) ² max.	A max. in / mm	B max. in / mm	C max. in / mm	D nom. in / mm	Hole Dia. in / mm	PCB LAYOUT
T10040*		0.70	10	12.50	8.0	1.240 / 31.50	0.728 / 18.50	1.240 / 31.50	0.394 / 10.0	0.050 / 1.02	2
T10009**		1.25	150	8.80	13.5	1.300 / 33.02	0.800 / 20.32	1.400 / 35.56	0.185 / 4.69	0.062 / 1.57	3
	T10157	1.70	10	19.00	6.0	1.300 / 33.02	0.625 / 15.88	1.155 / 29.34	0.150 / 3.81	0.043 / 1.09	4

1. Inductance tested at 0.25 V; * L tested at 0.05 V; **L tested at 1.0 V.
2. Temperature rise is 40°C Typ.
3. Operating Temp. range -40° to +105°C.
4. OCL and DCR tested at Ta=25°C.



RoHS COMPLIANT PRODUCT

Common Mode Choke 25 mm Toroid

(CMT02513 Series)



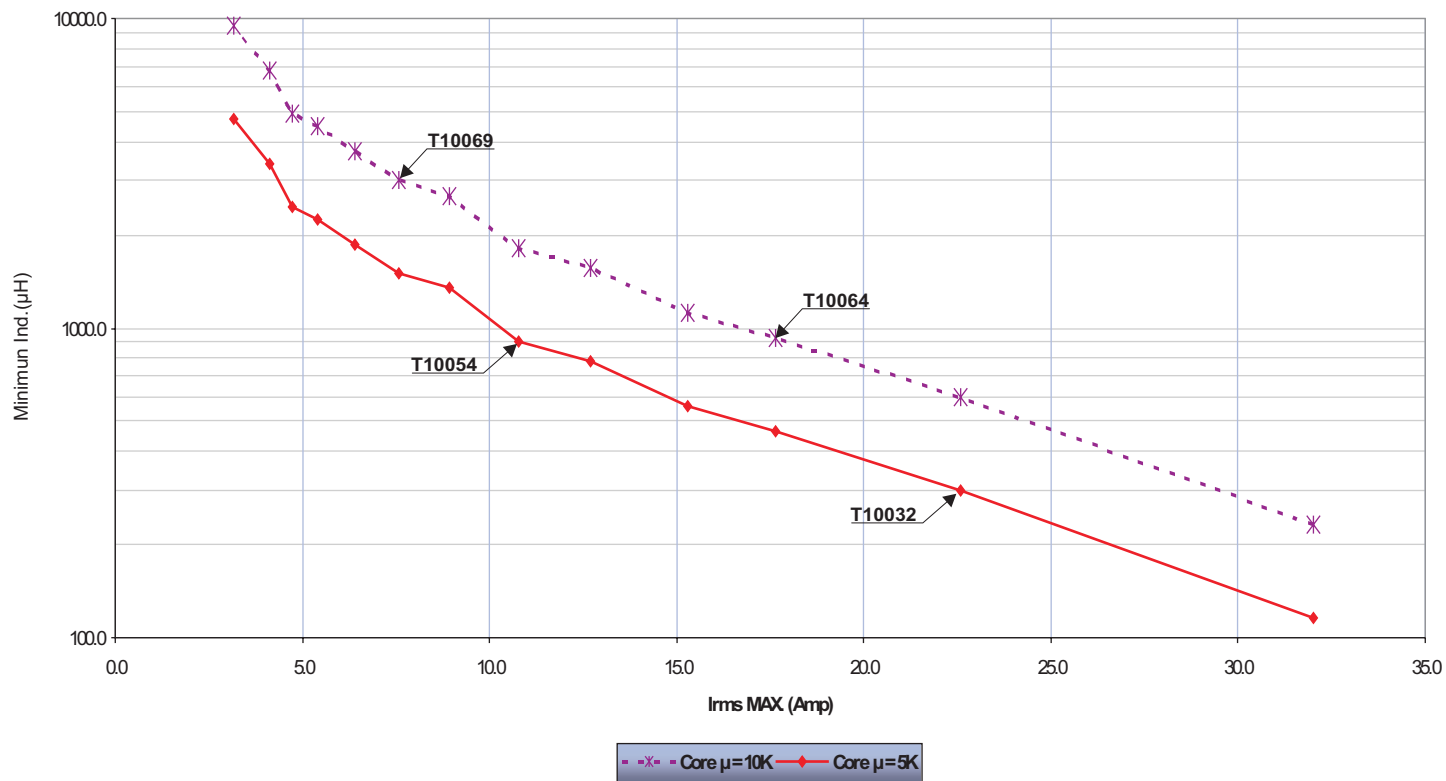
Continuation...

5K PERMEABILITY TYPE- SINGLE LAYER WINDING										
FALCO PART NUMBER	L(mH) ¹ min.	Freq. (KHz)	DCR (mΩ) NOM.	I _{rms} (Amp) ² max.	A max. in / mm	B max. in / mm	C max. in / mm	D nom. in / mm	Hole Dia. in / mm	PCB LAYOUT
T10030	0.1162	10	1.54	32.0	1.300 / 33.02	0.950 / 24.13	1.500 / 38.10	0.250 / 6.35	0.082 / 2.08	1
T10032	0.2975	10	3.11	22.6	1.300 / 33.02	0.950 / 24.13	1.500 / 38.10	0.250 / 6.35	0.074 / 1.88	1
T10033	0.4641	10	5.11	17.7	1.300 / 33.02	0.950 / 24.13	1.500 / 38.10	0.250 / 6.35	0.067 / 1.70	1
T10052	0.5621	10	6.78	15.3	1.300 / 33.02	0.950 / 24.13	1.500 / 38.10	0.250 / 6.35	0.061 / 1.55	1
T10053	0.7847	10	9.84	12.7	1.300 / 33.02	0.950 / 24.13	1.500 / 38.10	0.250 / 6.35	0.055 / 1.40	1
T10054	0.9100	10	13.70	10.8	1.300 / 33.02	0.930 / 23.62	1.500 / 38.10	0.250 / 6.35	0.050 / 1.02	1
T10055	1.3419	10	20.00	8.9	1.300 / 33.02	0.930 / 23.62	1.500 / 38.10	0.250 / 6.35	0.046 / 1.17	1
T10056	1.5043	10	27.80	7.6	1.300 / 33.02	0.930 / 23.62	1.500 / 38.10	0.250 / 6.35	0.042 / 1.07	1
T10057	1.8571	10	38.94	6.4	1.300 / 33.02	0.930 / 23.62	1.500 / 38.10	0.250 / 6.35	0.038 / 0.97	1
T10058	2.2470	10	54.30	5.4	1.300 / 33.02	0.930 / 23.62	1.500 / 38.10	0.250 / 6.35	0.035 / 0.89	1
T10059	2.4563	10	71.10	4.7	1.300 / 33.02	0.930 / 23.62	1.500 / 38.10	0.250 / 6.35	0.032 / 0.81	1
T10060	3.3845	10	94.03	4.1	1.300 / 33.02	0.930 / 23.62	1.500 / 38.10	0.250 / 6.35	0.030 / 0.76	1
T10061	4.7544	10	157.50	3.2	1.300 / 33.02	0.930 / 23.62	1.500 / 38.10	0.250 / 6.35	0.028 / 0.711	1

10K PERMEABILITY TYPE- SINGLE LAYER WINDING										
FALCO PART NUMBER	L(mH) ¹ min.	Freq. (KHz)	DCR (mΩ) NOM.	I _{rms} (Amp) ² max.	A max. in / mm	B max. in / mm	C max. in / mm	D nom. in / mm	Hole Dia. in / mm	PCB LAYOUT
T10062	0.2324	10	1.54	32.0	1.300 / 33.02	0.950 / 24.13	1.500 / 38.10	0.250 / 6.35	0.082 / 2.08	1
T10063	0.5950	10	3.11	22.6	1.300 / 33.02	0.950 / 24.13	1.500 / 38.10	0.250 / 6.35	0.074 / 1.88	1
T10064	0.9282	10	5.11	17.7	1.300 / 33.02	0.950 / 24.13	1.500 / 38.10	0.250 / 6.35	0.067 / 1.70	1
T10065	1.1242	10	6.78	15.3	1.300 / 33.02	0.950 / 24.13	1.500 / 38.10	0.250 / 6.35	0.061 / 1.55	1
T10066	1.5694	10	9.84	12.7	1.300 / 33.02	0.950 / 24.13	1.500 / 38.10	0.250 / 6.35	0.055 / 1.40	1
T10067	1.8200	10	13.70	10.8	1.300 / 33.02	0.930 / 23.62	1.500 / 38.10	0.250 / 6.35	0.050 / 1.02	1
T10068	2.6838	10	20.00	8.9	1.300 / 33.02	0.930 / 23.62	1.500 / 38.10	0.250 / 6.35	0.046 / 1.17	1
T10069	3.0086	10	27.80	7.6	1.300 / 33.02	0.930 / 23.62	1.500 / 38.10	0.250 / 6.35	0.042 / 1.07	1
T10070	3.7142	10	38.94	6.4	1.300 / 33.02	0.930 / 23.62	1.500 / 38.10	0.250 / 6.35	0.038 / 0.97	1
T10071	4.4940	10	54.30	5.4	1.300 / 33.02	0.930 / 23.62	1.500 / 38.10	0.250 / 6.35	0.035 / 0.89	1
T10072	4.9126	10	71.10	4.7	1.300 / 33.02	0.930 / 23.62	1.500 / 38.10	0.250 / 6.35	0.032 / 0.81	1
T10073	6.7690	10	94.03	4.1	1.300 / 33.02	0.930 / 23.62	1.500 / 38.10	0.250 / 6.35	0.030 / 0.76	1
T10074	9.5088	10	157.50	3.2	1.300 / 33.02	0.930 / 23.62	1.500 / 38.10	0.250 / 6.35	0.028 / 0.711	1

1. Inductance tested at 0.25 V.
2. Temperature rise is 40°C Typ.
3. Operating Temp. range -40° to +105°C.
4. OCL and DCR tested at Ta=25°C.

Minimum Inductance vs Rms Current Max.
for the Same Core Size



Core Size (mm)

$\mu = 10K$	$\mu = 5K$
OD = 25	OD = 25
ID = 15	ID = 15
HT = 13	HT = 13