

# Common Mode Choke 36 mm Toroid

POWER MAGNETICS

( CMT03615 / VTM160 Series )

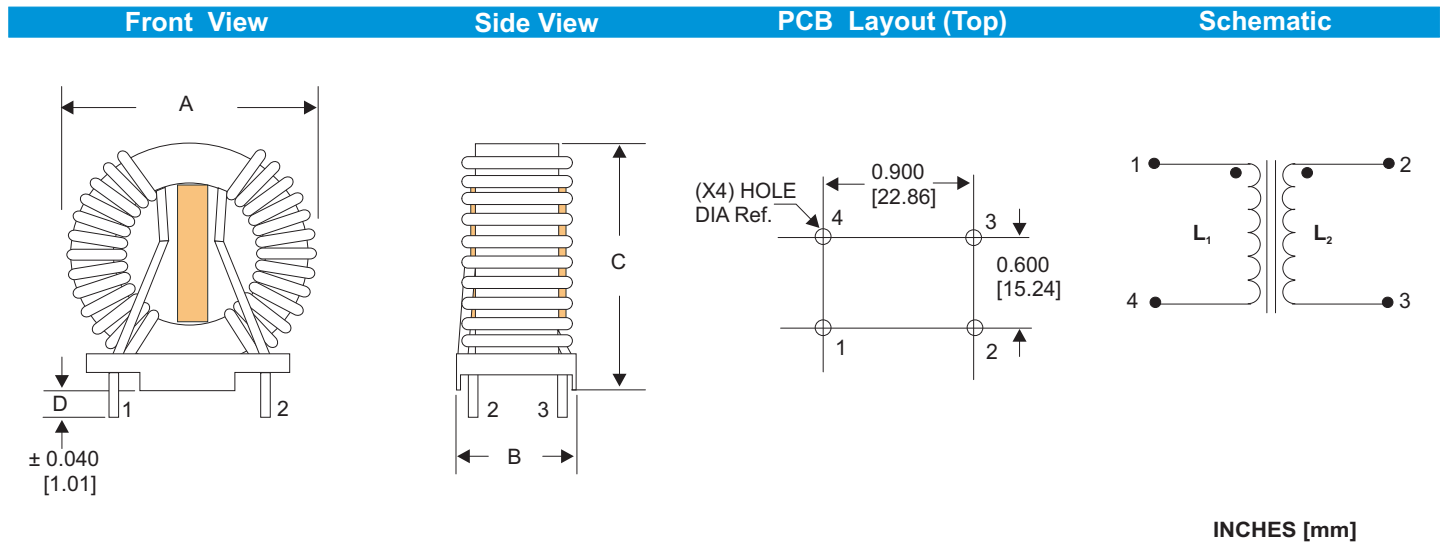
**FALCO**  
electronics



MAX. DIM :  
L = 45.72 mm  
W = 24.90 mm  
H = 45.72 mm

- Frequency range from 50 KHz to 500 KHz.
- Current ratings available up to 21 Amps.
- Inductance values available from 0.75 mH to 48.33 mH
- Excellent coupling leakage factor and mode attenuation.
- 3 mm of creepage between windings.
- Parts meet UL, IEC & VDE safety standards.

## MECHANICAL SPECIFICATIONS



## ELECTRICAL SPECIFICATIONS

FALCO PART NUMBER	ROHS PART NUMBER	L(mH) <sup>1</sup> min.	Freq. (KHz)	DCR (Ω) max.	I <sub>rms</sub> (Amp) <sup>2</sup> max.	A max. in / mm	B max. in / mm	C max. in / mm	D nom. in / mm	Hole Dia. in / mm
T14090		0.750	10.0	0.0072	----	1.700 / 43.18	0.980 / 24.89	1.600 / 40.64	0.420 / 10.67	0.062 / 1.57
T14025	T14L25	2.000	1.0	0.0100	21.00	1.720 / 43.69	0.980 / 24.89	1.750 / 44.45	0.160 / 3.81	0.072 / 1.83
T14023	T14L23**	4.000	10.0	0.0200	15.00	1.700 / 43.18	0.980 / 24.89	1.750 / 44.45	0.160 / 3.82	0.063 / 1.60
T14007	T14L07	5.440	1.0	0.0750	8.00	1.600 / 40.64	0.870 / 22.10	1.700 / 43.18	0.180 / 4.57	0.050 / 1.27

\* EITHER TIE WRAP CORD OR PAPER PHENOLIC  
COULD BE USED AS SPACER.

1. Inductance tested at 0.25 V, \*\* Freq. 15 KHz
2. Temperature rise is 40°C Typ.
3. Operating Temp. range -40° to +105°C.
4. OCL and DCR tested at Ta=25°C.
5. These Items are wound on more than one Single Layer.



RoHS COMPLIANT PRODUCT

# Common Mode Choke 36 mm Toroid

( CMT03615 / VTM160 Series )



Continuation...

## 5K PERMEABILITY TYPE- SINGLE LAYER WINDING

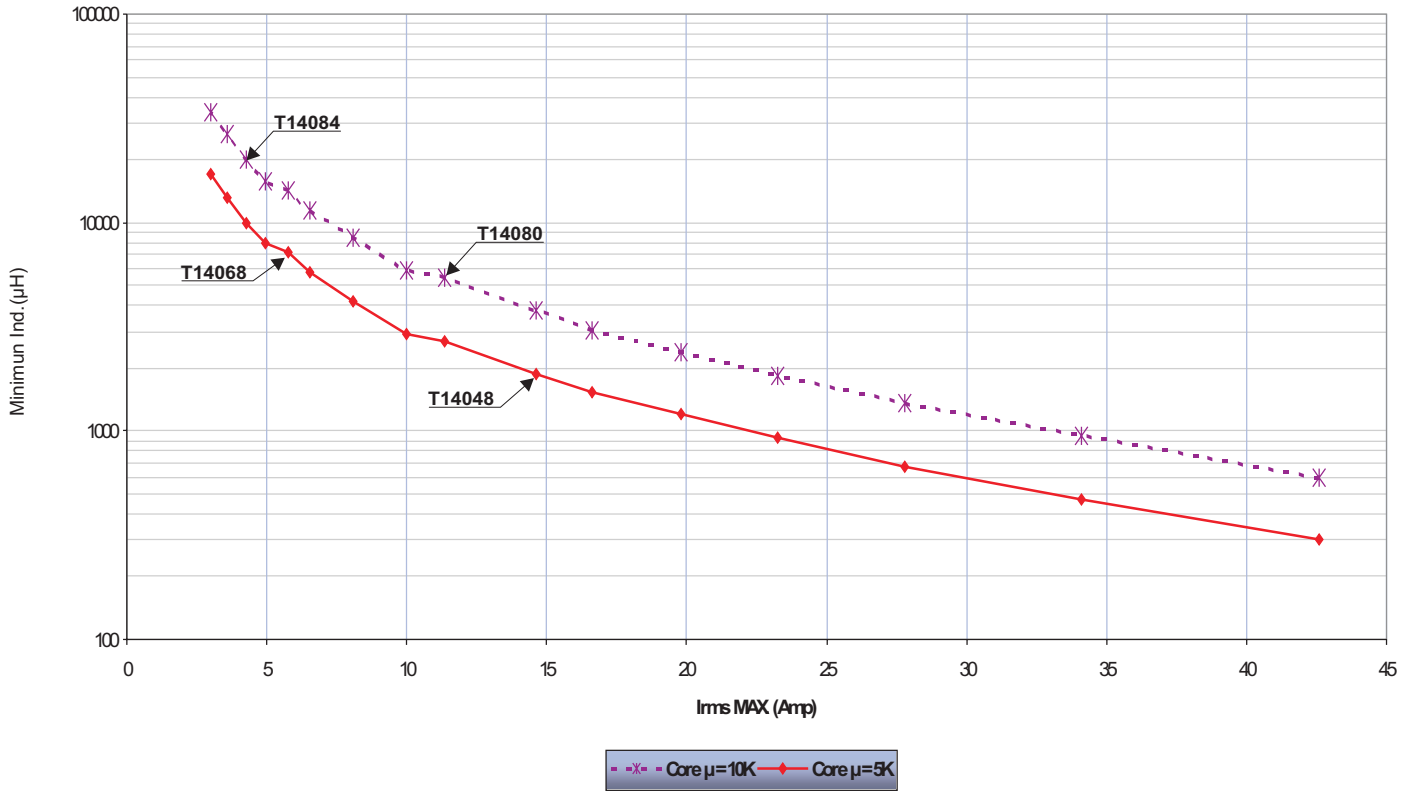
FALCO PART NUMBER	L(mH) <sup>1</sup> min.	Freq. (KHz)	DCR (mΩ) NOM.	I <sub>rms</sub> (Amp) <sup>2</sup> max.	A max. in / mm	B max. in / mm	C max. in / mm	D nom. in / mm	Hole Dia. in / mm
T14048	1.8794	10	12.69	14.6	1.800 / 45.72	0.980 / 24.90	1.800 / 45.72	0.250 / 6.35	0.061 / 1.55
T14064	2.7063	10	21.02	11.4	1.800 / 45.72	0.980 / 24.90	1.800 / 45.72	0.250 / 6.35	0.055 / 1.40
T14065	2.9365	10	27.25	10.0	1.800 / 45.72	0.980 / 24.90	1.800 / 45.72	0.250 / 6.35	0.050 / 1.02
T14066	4.2286	10	41.40	8.1	1.800 / 45.72	0.980 / 24.90	1.800 / 45.72	0.250 / 6.35	0.046 / 1.17
T14067	5.7555	10	63.08	6.6	1.800 / 45.72	0.980 / 24.90	1.800 / 45.72	0.250 / 6.35	0.042 / 1.07
T14068	7.1463	10	82.02	5.8	1.800 / 45.72	0.980 / 24.90	1.800 / 45.72	0.250 / 6.35	0.038 / 0.97
T14069	7.8980	10	111.62	4.9	1.800 / 45.72	0.980 / 24.90	1.800 / 45.72	0.250 / 6.35	0.035 / 0.89
T14070	9.9418	10	150.00	4.3	1.800 / 45.72	0.980 / 24.90	1.800 / 45.72	0.250 / 6.35	0.032 / 0.81
T14071	13.1978	10	210.00	3.6	1.800 / 45.72	0.980 / 24.90	1.800 / 45.72	0.250 / 6.35	0.030 / 0.76
T14072	16.9142	10	300.00	3.0	1.800 / 45.72	0.980 / 24.90	1.800 / 45.72	0.250 / 6.35	0.028 / 0.711

## 10K PERMEABILITY TYPE- SINGLE LAYER WINDING

FALCO PART NUMBER	L(mH) <sup>1</sup> min.	Freq. (KHz)	DCR (mΩ) NOM.	I <sub>rms</sub> (Amp) <sup>2</sup> max.	A max. in / mm	B max. in / mm	C max. in / mm	D nom. in / mm	Hole Dia. in / mm
T14079	3.7590	10	12.69	14.6	1.800 / 45.72	0.980 / 24.90	1.800 / 45.72	0.250 / 6.35	0.061 / 1.55
T14080	5.4130	10	21.02	11.4	1.800 / 45.72	0.980 / 24.90	1.800 / 45.72	0.250 / 6.35	0.055 / 1.40
T14081	5.8734	10	27.25	10.0	1.800 / 45.72	0.980 / 24.90	1.800 / 45.72	0.250 / 6.35	0.050 / 1.02
T14082	8.4578	10	41.40	8.1	1.800 / 45.72	0.980 / 24.90	1.800 / 45.72	0.250 / 6.35	0.046 / 1.17
T14083	11.5119	10	63.08	6.6	1.800 / 45.72	0.980 / 24.90	1.800 / 45.72	0.250 / 6.35	0.042 / 1.07
T14032	14.2936	10	82.02	5.8	1.800 / 45.72	0.980 / 24.90	1.800 / 45.72	0.250 / 6.35	0.038 / 0.97
T14033	15.7972	10	111.62	4.9	1.800 / 45.72	0.980 / 24.90	1.800 / 45.72	0.250 / 6.35	0.035 / 0.89
T14084	19.8851	10	150.00	4.3	1.800 / 45.72	0.980 / 24.90	1.800 / 45.72	0.250 / 6.35	0.032 / 0.81
T14085	26.3976	10	210.00	3.6	1.800 / 45.72	0.980 / 24.90	1.800 / 45.72	0.250 / 6.35	0.030 / 0.76
T14086	33.8310	10	300.00	3.0	1.800 / 45.72	0.980 / 24.90	1.800 / 45.72	0.250 / 6.35	0.028 / 0.711

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)

µ = 10K	µ = 5K
OD = 36	OD = 36
ID = 23	ID = 23
HT = 15	HT = 15