

Common Mode Choke 36 mm Toroid

POWER MAGNETICS

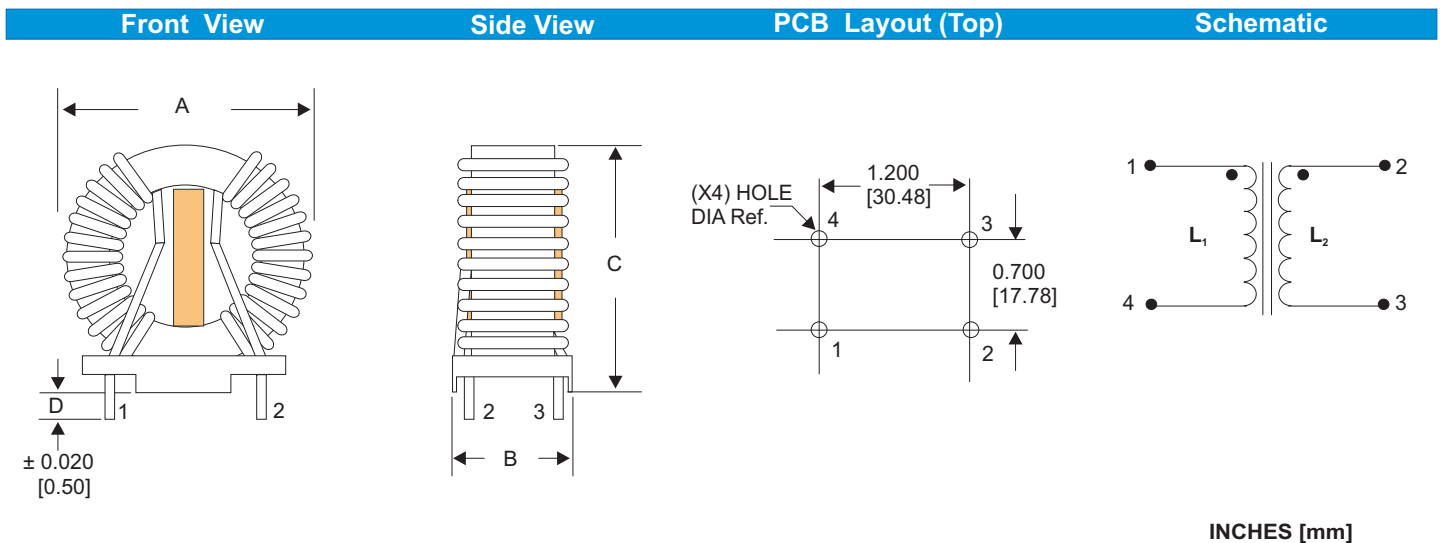
(CMT03615 / VTM254 Series)



MAX. DIM :
L = 48.26 mm
W = 31.75 mm
H = 45.72 mm

- Frequency range from 50 KHz to 500 KHz.
- Current ratings available up to 42.6 Amps.
- Inductance values available from 0.30 mH to 3.05 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) ¹ min.	Freq. (KHz)	DCR (Ω) max.	I _{rms} (Amp) ²	A max. in / mm	B max. in / mm	C max. in / mm	D nom. in / mm	Hole Dia. in / mm
T14002**	T14L02**	0.900	1.0	0.0075	24.00	1.800 / 45.72	0.910 / 23.11	1.700 / 43.18	0.150 / 3.81	0.069 / 1.75
T140B2**	T14LB2**	0.900	1.0	0.0075	24.00	1.800 / 45.72	0.910 / 23.11	1.600 / 40.64	0.150 / 3.81	0.069 / 1.75
T140A2	T14LA2	0.960	1.0	0.0090	22.00	1.700 / 43.18	0.910 / 23.11	1.700 / 43.18	0.150 / 3.81	0.063 / 1.60
T14042		1.200	10.0	0.0100	21.00	1.700 / 43.18	1.000 / 25.40	1.700 / 43.18	0.180 / 4.57	0.076 / 1.93
T14021		1.350	10.0	0.0160	11.00	1.760 / 44.70	0.920 / 23.40	1.700 / 43.18	0.150 / 3.81	0.063 / 1.60
T14022		1.600	1.0	0.0110	20.00	1.900 / 48.26	1.250 / 31.75	1.700 / 43.18	0.140 / 3.56	0.089 / 2.26
T14003	T14L03	1.760	10.0	0.0150	17.50	1.800 / 45.72	0.910 / 23.11	1.700 / 43.18	0.150 / 3.81	0.063 / 1.60
T140B3		1.760	10.0	0.0150	17.50	1.800 / 45.72	0.910 / 23.11	1.600 / 40.64	0.150 / 3.81	0.063 / 1.60

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

1. Inductance tested at 0.25 V. ** Tested at 0.1 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.
5. These Items are wound on more than one Single Layer.



RoHS COMPLIANT PRODUCT

Continuation...

5K PERMEABILITY TYPE- SINGLE LAYER WINDING

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
T14035		0.3010	10	1.50	42.60	1.800 / 45.72	0.970 / 24.64	1.800 / 45.72	0.250 / 6.35	0.200 / 5.08
T14036		0.4697	10	2.34	34.09	1.800 / 45.72	0.970 / 24.64	1.800 / 45.72	0.250 / 6.35	0.100 / 2.54
T14037		0.6766	10	3.52	27.80	1.800 / 45.72	0.970 / 24.64	1.800 / 45.72	0.250 / 6.35	0.091 / 2.31
T14038		0.9209	10	5.02	23.27	1.800 / 45.72	0.970 / 24.64	1.800 / 45.72	0.250 / 6.35	0.082 / 2.08
T14039		1.2028	10	6.92	19.82	1.800 / 45.72	0.970 / 24.64	1.800 / 45.72	0.250 / 6.35	0.074 / 1.88
T14047		1.5223	10	9.84	16.62	1.800 / 45.72	0.970 / 24.64	1.800 / 45.72	0.250 / 6.35	0.067 / 1.70

10K PERMEABILITY TYPE- SINGLE LAYER WINDING

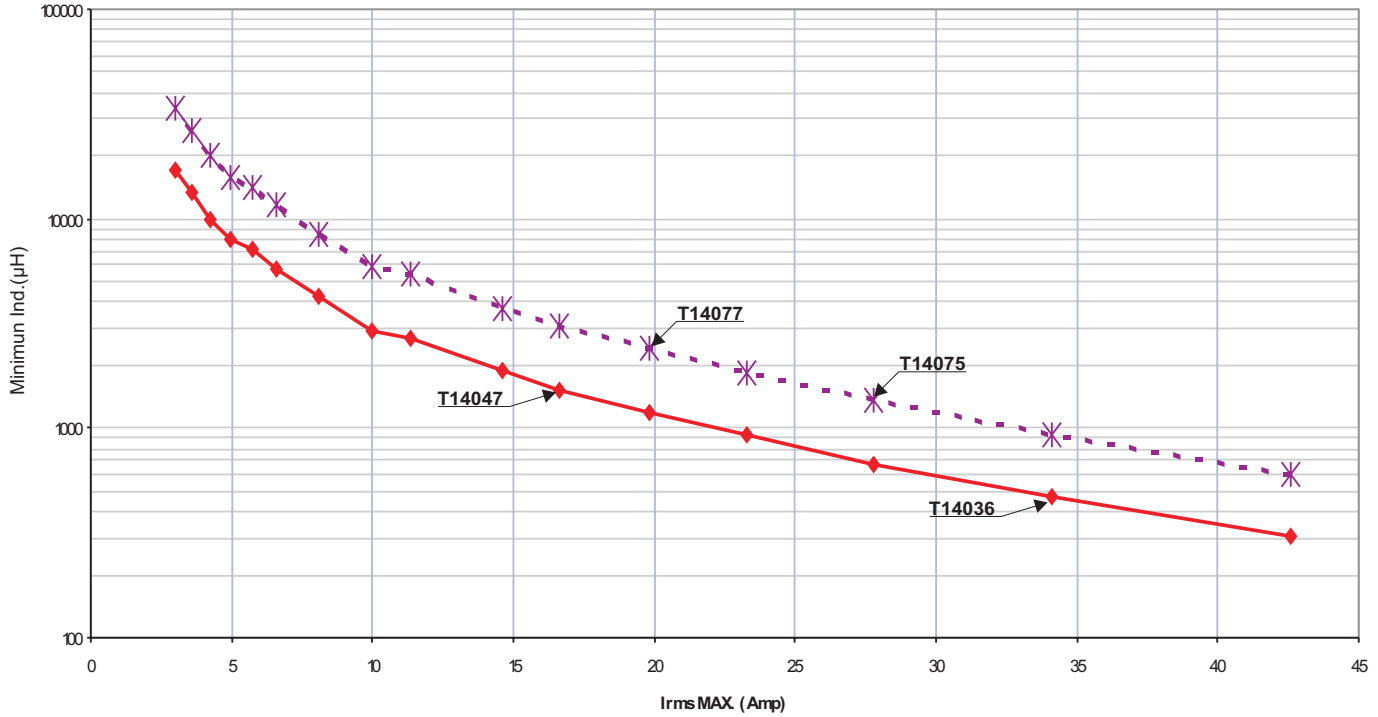
FALCO PART NUMBER	RoHS PART NUMBER	L(mH) ¹ min.	Freq. (KHz)	DCR (mΩ) NOM.	I _{rms} (Amp) ² max.	A max. in / mm	B max. in / mm	C max. in / mm	D nom. in / mm	Hole Dia. in / mm
	T14073	0.6020	10	1.50	42.60	1.800 / 45.72	0.970 / 24.64	1.800 / 45.72	0.250 / 6.35	0.200 / 5.08
T14074		0.9401	10	2.34	34.09	1.800 / 45.72	0.970 / 24.64	1.800 / 45.72	0.250 / 6.35	0.100 / 2.54
T14075		1.3532	10	3.52	27.80	1.800 / 45.72	0.970 / 24.64	1.800 / 45.72	0.250 / 6.35	0.091 / 2.31
	T14076	1.8419	10	5.02	23.27	1.800 / 45.72	0.970 / 24.64	1.800 / 45.72	0.250 / 6.35	0.082 / 2.08
T14077		2.4058	10	6.92	19.82	1.800 / 45.72	0.970 / 24.64	1.800 / 45.72	0.250 / 6.35	0.074 / 1.88
T14078		3.0448	10	9.84	16.62	1.800 / 45.72	0.970 / 24.64	1.800 / 45.72	0.250 / 6.35	0.067 / 1.70

1. Inductance tested at 0.25 V.
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3. Operating Temp. range -40° to +105°C.
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RoHS COMPLIANT PRODUCT

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



--- * --- Core μ = 10K —◆— Core μ = 5K

Core Size (mm)

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