

Common Mode Choke 22 mm Toroid

POWER MAGNETIC

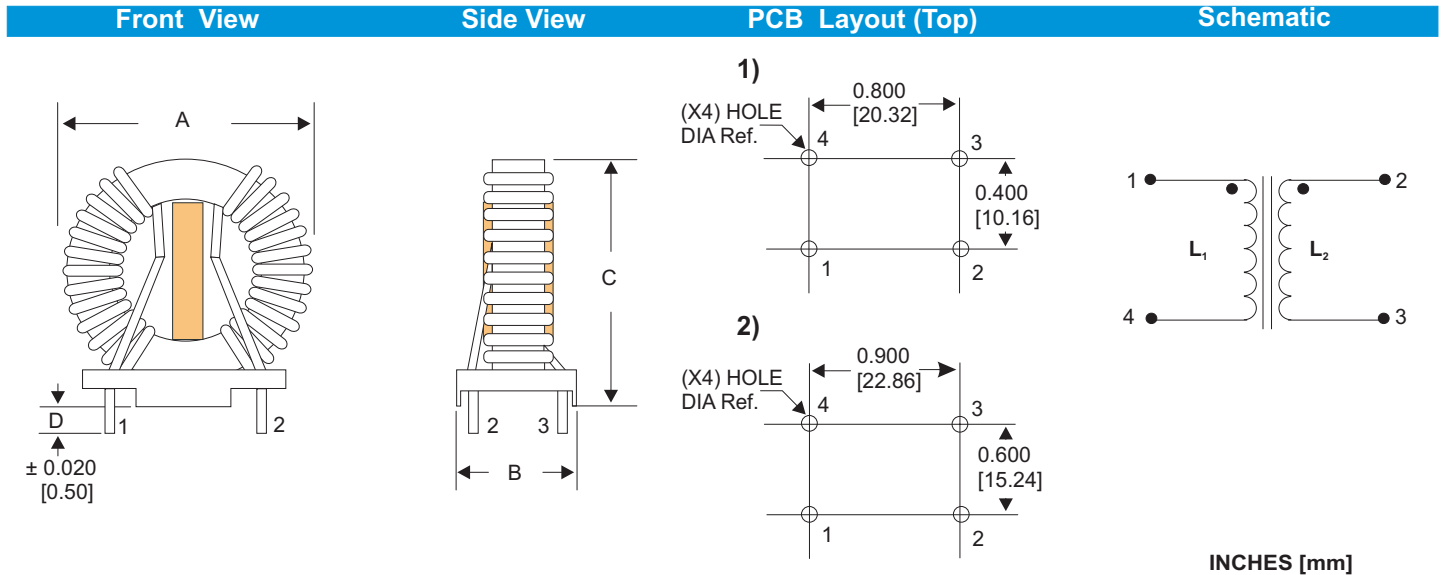
(CMT02207 Series)



MAX. DIM :
 L = 31.75 mm
 W = 23.62 mm
 H = 33.02 mm

- Frequency range from 50 KHz to 500 KHz.
- Current ratings available up to 25.9 Amps.
- Inductance values available from 0.09 mH to 7.39 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 max.	A max. in / mm	B max. in / mm	C max. in / mm	D nom. in / mm	Hole Dia. in / mm	PCB LAYOUT
	T87001	0.700	1.0	0.0150	7.50	1.150 / 29.21	0.630 / 16.00	1.150 / 29.21	0.250 / 6.35	0.045 / 1.15	1
T87042**		0.750	1.0	0.0150	10.00	1.150 / 29.21	0.630 / 16.00	1.150 / 29.21	0.125 / 3.17	0.063 / 1.60	1
T87002*		1.760	20.0	0.0350	4.00	1.250 / 31.75	0.630 / 16.00	1.250 / 31.75	0.250 / 6.35	0.045 / 1.15	1
T87043	T87L43	6.500	1.0	0.0750	3.00	1.240 / 31.49	0.610 / 15.49	1.070 / 27.18	0.250 / 6.35	0.047 / 1.20	1

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

** PINS ARE CRIMPED.

1. Inductance tested at 0.25 V . *L tested at 0.15 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

Common Mode Choke 22 mm Toroid

(CMT02207 Series)



Continuation...

5K PERMEABILITY TYPE- SINGLE LAYER WINDING

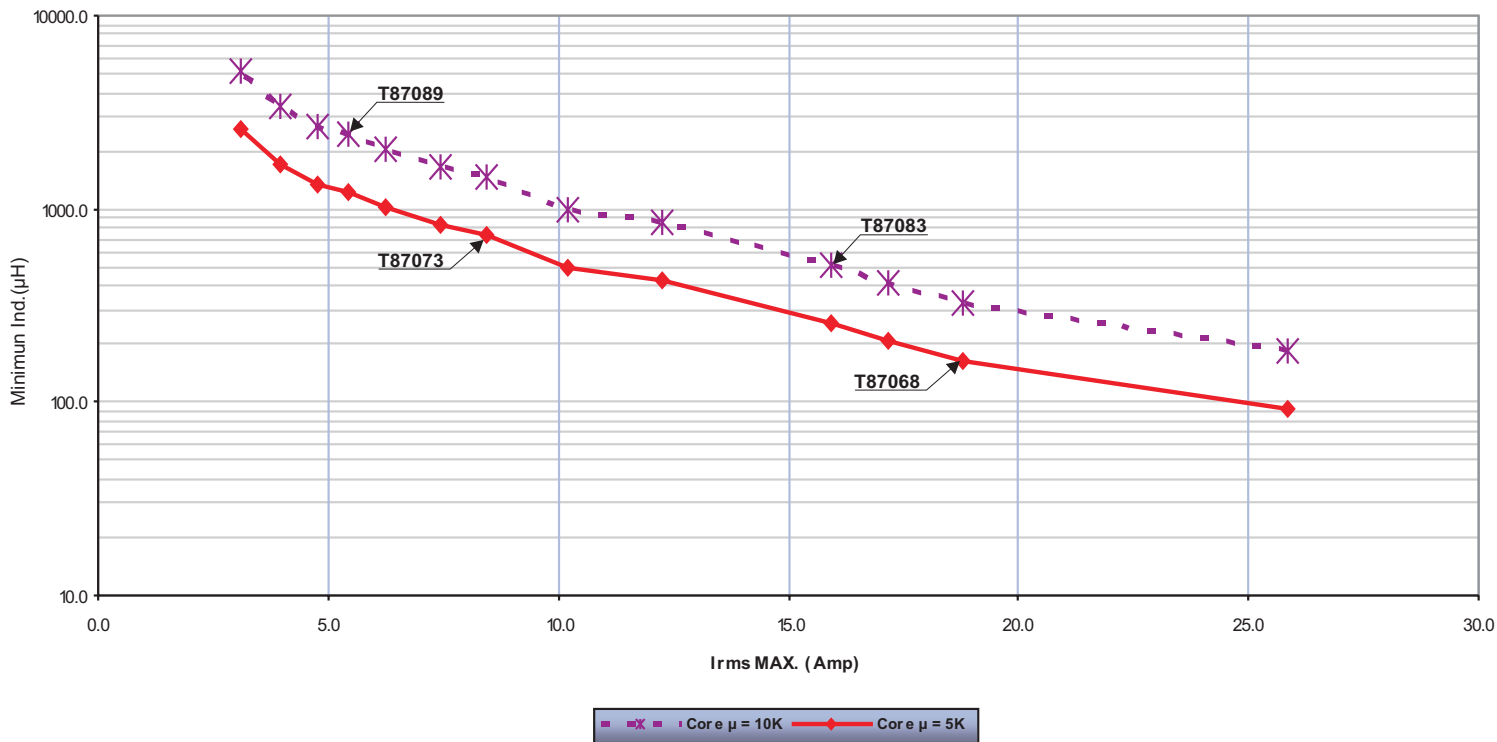
FALCO PART NUMBER	L(mH) ¹ min.	Freq. (KHz)	DCR (mΩ) NOM.	I _{rms} (Amp) ² max.	A max. in / mm	B max. in / mm	C max. in / mm	D nom. in / mm	Hole Dia. in / mm	PCB LAYOUT
T87067	0.0910	10	1.44	25.9	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.082 / 2.08	2
T87068	0.1617	10	2.73	18.8	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.074 / 1.88	2
T87069	0.2047	10	3.26	17.2	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.067 / 1.70	2
T87070	0.2527	10	3.80	15.9	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.061 / 1.55	2
T87071	0.4271	10	6.39	12.3	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.055 / 1.40	2
T87072	0.4953	10	9.27	10.2	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.050 / 1.02	2
T87073	0.7303	10	13.56	8.4	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.046 / 1.17	2
T87074	0.8187	10	17.40	7.4	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.042 / 1.07	2
T87075	1.0108	10	24.47	6.3	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.038 / 0.97	2
T87076	1.2231	10	32.59	5.4	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.035 / 0.89	2
T87077	1.3368	10	42.70	4.8	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.032 / 0.81	2
T87078	1.7083	10	60.90	4.0	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.030 / 0.76	2
T87079	2.5876	10	99.26	3.1	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.028 / 0.711	2

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
T87080	0.1819	10	1.44	25.9	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.082 / 2.08	2
T87081	0.3235	10	2.73	18.8	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.074 / 1.88	2
T87082	0.4094	10	3.26	17.2	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.067 / 1.70	2
T87083	0.5054	10	3.80	15.9	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.061 / 1.55	2
T87084	0.8541	10	6.39	12.3	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.055 / 1.40	2
T87085	0.9906	10	9.27	10.2	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.050 / 1.02	2
T87086	1.4606	10	13.56	8.4	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.046 / 1.17	2
T87A86	1.4606	10	13.56	8.4	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.046 / 1.17	1
T87087	1.6375	10	17.40	7.4	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.042 / 1.07	2
T87088	2.0216	10	24.47	6.3	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.038 / 0.97	2
T87089	2.4461	10	32.59	5.4	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.035 / 0.89	2
T87090	2.6736	10	42.70	4.8	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.032 / 0.81	2
T87091	3.4165	10	60.90	4.0	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.030 / 0.76	2
T87092	5.1753	10	99.26	3.1	1.100 / 27.94	0.930 / 23.62	1.300 / 33.02	0.250 / 6.35	0.028 / 0.711	2

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 = 22	OD = 22
ID = 14	ID = 14
HT = 8	HT = 8