

# Common Mode Choke 29 mm Toroid

POWER MAGNETICS

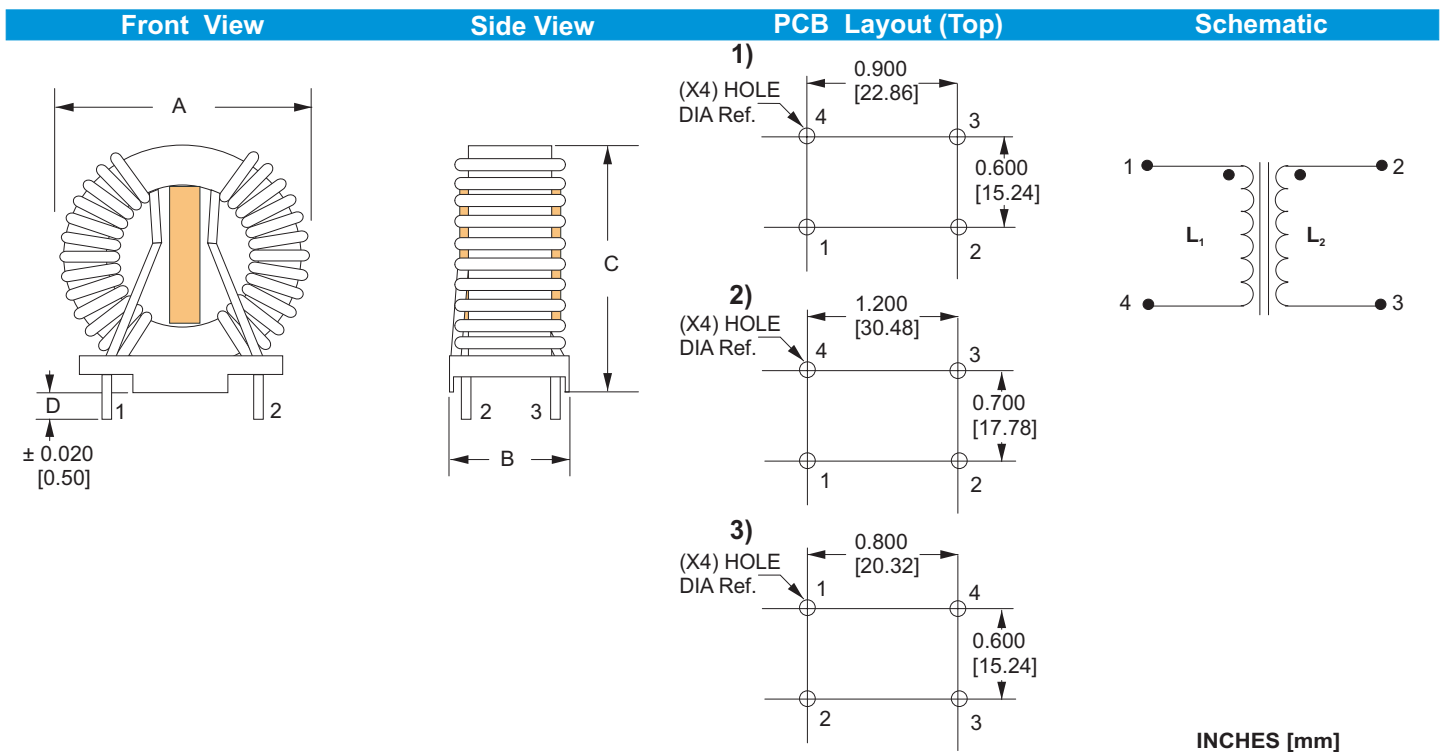
( CMT02915 Series )



**MAX. DIM :**  
**L = 45.72 mm**  
**W = 28.96 mm**  
**H = 40.64 mm**

- Frequency range from 50 KHz to 500 KHz.
- Current ratings available up to 40 Amps.
- Inductance values available from 0.228 mH to 26.80 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

YATA 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	PCB LAYOUT
	T11001*	0.415	100.0	0.0034	29.00	1.500 / 38.10	1.000 / 25.40	1.550 / 39.37	0.250 / 6.35	0.094 / 2.39	2
T11058		0.500	100.0	0.0096	20.00	1.450 / 36.83	0.890 / 22.60	1.500 / 38.10	0.150 / 3.81	0.082 / 2.08	1
	T11037	1.300	1.0	0.0064	19.40	1.450 / 36.83	0.850 / 21.59	1.430 / 36.32	0.157 / 4.00	0.073 / 1.85	1
T11025**		1.526	1.0	0.0062	27.30	1.400 / 35.36	0.906 / 23.01	1.400 / 35.36	0.500 / 12.70	0.073 / 1.85	3
T11034		2.500	1.0	0.0150	9.00	1.365 / 34.67	0.825 / 20.95	1.430 / 36.32	0.250 / 6.35	0.060 / 1.52	1

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

\* PIN LENGTH TOLERANCE IS ±0.030 [0.76]

\*\* T11025 WITHOUT MOUNTING BASE

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.
5. These Items are wound on more than one Single Layer.

### Continuation...

5K PERMEABILITY TYPE- SINGLE LAYER WINDING

YATA PART NUMBER	RoHS PART NUMBER	L(mH) <sup>1</sup> Min.	Freq. (KHz)	DCR (mΩ) NOM.	Irms (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	PCB LAYOUT
T11043		0.1596	10	1.20	40.0	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.200 / 5.08	2
T11044		0.2835	10	1.89	31.9	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.100 / 2.54	2
T11046		0.3592	10	3.01	25.3	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.091 / 2.31	2
T11048		0.4435	10	3.58	23.2	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.082 / 2.08	2
T11050		0.6386	10	5.11	19.4	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.074 / 1.88	2
T11069		0.8692	10	7.41	16.1	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.067 / 1.70	2
T11070		1.1352	10	10.23	13.7	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.061 / 1.55	2
T11071		1.4368	10	14.55	11.5	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.055 / 1.40	2
T11072		1.7738	10	20.97	9.6	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.050 / 1.02	2
T11073		2.5543	10	30.91	7.9	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.046 / 1.17	2
T11074		2.9977	10	43.54	6.7	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.042 / 1.07	2
T11075		4.2616	10	65.30	5.4	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.038 / 0.97	2
T11076		4.8292	10	86.41	4.7	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.035 / 0.89	2
T11077		5.7471	10	112.02	4.1	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.032 / 0.81	2
T11078		7.4544	10	160.00	3.5	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.030 / 0.76	2
T11079		9.3834	10	230.00	2.9	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.028 / 0.711	2

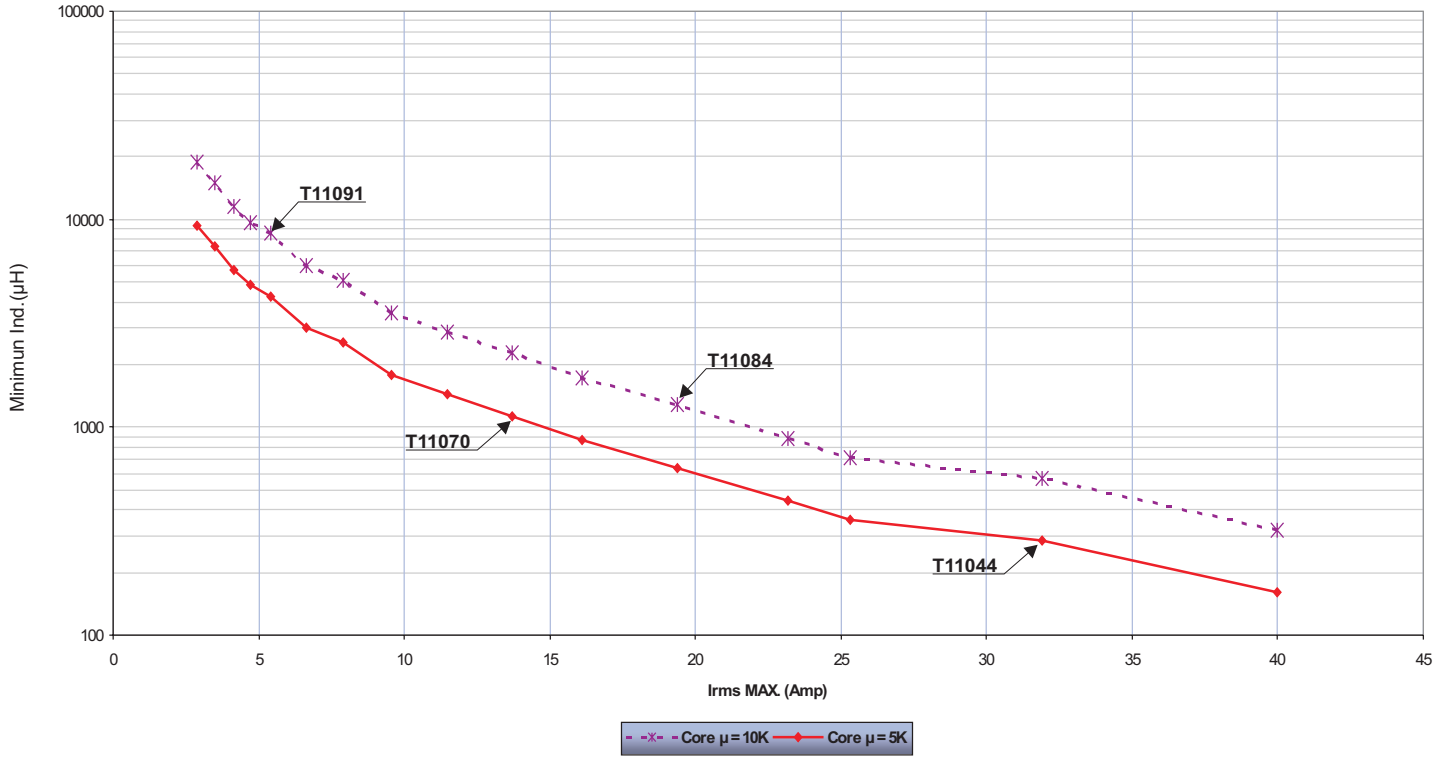
10K PERMEABILITY TYPE- SINGLE LAYER WINDING

YATA PART NUMBER	RoHS PART NUMBER	L(mH) <sup>1</sup> Min.	Freq. (KHz)	DCR (Ω) NOM.	Irms (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	PCB LAYOUT
T11080		0.3192	10	1.20	40.0	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.200 / 5.08	2
	T11081	0.5677	10	1.89	31.9	1.800 / 45.72	1.140 / 28.96	1.600 / 40.64	0.250 / 6.35	0.100 / 2.54	2
T11082		0.7184	10	3.01	25.3	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.091 / 2.31	2
T11083		0.8869	10	3.58	23.2	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.082 / 2.08	2
T11084		1.2771	10	5.11	19.4	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.074 / 1.88	2
T11085		1.7383	10	7.41	16.1	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.067 / 1.70	2
T11086		2.2705	10	10.23	13.7	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.061 / 1.55	2
T11087		2.8736	10	14.55	11.5	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.055 / 1.40	2
T11088		3.5476	10	20.97	9.6	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.050 / 1.02	2
T11089		5.1085	10	30.91	7.9	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.046 / 1.17	2
T11090		5.9954	10	43.54	6.7	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.042 / 1.07	2
T11091		8.5231	10	65.30	5.4	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.038 / 0.97	2
T11092		9.6583	10	86.41	4.7	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.035 / 0.89	2
T11093		11.4942	10	112.02	4.1	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.032 / 0.81	2
T11094		14.9088	10	160.00	3.5	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	0.250 / 6.35	0.030 / 0.76	2
T11095		18.7668	10	230.00	2.9	1.800 / 45.72	0.930 / 23.62	1.600 / 40.64	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 = 29	OD = 29
ID = 19	ID = 19
HT = 15	HT = 15