



## TC/TB SERIES

TOROIDAL COILS.

### Applications :

- Power supplies. Switching Circuits.
- SCR and Triac Controls. Output chokes.
- EMI / RFI chokes.
- Other filter .

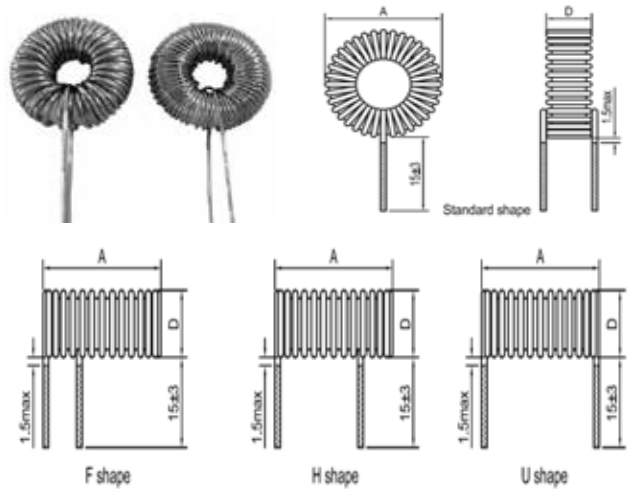
### Features :

- Useful in a wide variety of power conversion and line filter applications .
- Cost effective design.
- Low volume hand wound to high volume automatic machine wound.
- 130°C or 155°C UEW-NY wire.
- High saturation current.
- Customer's specifications are welcome.

### Characteristics :

- Temperature Rise Current( I<sub>rms</sub>): The current when temperature of coil increase up to max.  
 $\Delta T=40^{\circ}\text{C}.$ (T<sub>a</sub>=20°C)
- Operating temperature : -20°C to 80°C.

### Shape and Dimensions(unit:mm):



### Product Identification :

**TC - 101 M - 2A - 5026 - F**

(1) (2) (3) (4) (5) (6)

(1) Type: Toroidal Coils; "TB": TC with Base;

"TBV"- Vertical; "TBH"- Horizontal

(2) Inductance: Example : **101** for 100 uH

(3) Inductance tolerance: **K** : ±10% ; **M** : ± 20% .

(4) Rated current: **2.0**Amps .

(5) Core style : **OD** =0.5"(12.7mm). "**26**" is material.

(6) Shape: "**F. H. U**" shape; No code is standard shape.

### Test equipments and test setup :

- L : HP4284A LCR meter or equal.
- L load: HP4284A with HP42841A.
- DCR : Milli-Ω meter .
- Electrical specifications at 25°C.

### ● TC series

Part No.	Inductance @ 1kHz		DCR (Ω) Max.	I <sub>rms</sub> (A) Max.	Dimension (mm)		Weight (Grams) (For Ref.)	Winding method
	At I <sub>dc</sub> =0A (uH)	At I <sub>dc</sub> (uH)			A Max.	D Max.		
TC - 5R0M - 0.5A - 2026	5	4.9	0.007	0.5	7.5	4.5	0.4	Manual
TC - 9R0M - 0.3A - 2026	9	8.8	0.110	0.3	8.0	4.5	0.2	Manual
TC - 150M - 0.5A - 2026	15	13.5	0.070	0.5	7.5	4.5	0.4	Manual
TC - 200M - 0.2A - 2026	20	19.8	0.198	0.2	7.5	4.0	0.2	Manual
TC - 270M - 0.1A - 2026	27	27	0.033	0.1	7.5	4.0	0.2	Manual
TC - 270M - 0.3A - 2026	27	25.5	0.135	0.3	7.5	4.0	0.2	Manual
TC - 100M - 2A - 3026	10	7.7	0.017	2.0	11.0	6.5	1.6	Manual
TC - 120M - 1A - 3026	12	10.7	0.040	1.0	10.5	6.0	1.2	Manual
TC - 320M - 1A - 3026	32	25	0.058	1.0	10.5	6.0	1.4	Manual
TC - 370M - 0.5A - 3026	37	33.7	0.134	0.5	10.0	5.5	1.0	Manual



Part No.	Inductance @ 1kHz		DCR ( $\Omega$ ) Max.	Irms (A) Max.	Dimension (mm)		Weight (Grams) (For Ref.)	Winding method
	At Idc=0A ( $\mu$ H)	At Idc ( $\mu$ H)			A Max.	D Max.		
TC - 141M - 0.5A - 3026	140	107	0.265	0.5	10.0	6.0	1.2	Manual
TC - 8R2M - 2A - 3726	8.2	7.2	0.017	2.0	12.5	6.0	2.0	Manual
TC - 220M - 2A - 3726	22	17	0.030	2.0	14.5	7.5	2.4	Manual
TC - 240M - 1A - 3726	24	22	0.046	1.0	12.0	5.5	1.6	Manual
TC - 560M - 0.5A - 3726	56	53	0.181	0.5	12.5	5.5	1.4	Manual
TC - 680M - 1A - 3726	68	53	0.090	1.0	12.0	6.0	2.0	Manual
TC - 241M - 0.5A - 3726	240	190	0.039	0.5	12.0	6.0	1.6	Manual
TC - 150M - 2A - 4426	15	12.6	0.023	2.0	14.0	7.0	2.8	Manual
TC - 430M - 1A - 4426	43	37	0.074	1.0	14.0	6.5	2.6	Manual
TC - 680M - 2A - 4426	68	42	0.045	2.0	14.5	8.0	3.8	Manual
TC - 111M - 0.5A - 4426	110	100	0.250	0.5	14.0	6.5	2.4	Machine
TC - 141M - 1A - 4426	140	104	0.140	1.0	14.0	7.5	3.2	Machine
TC - 361M - 0.5A - 4426	360	285	0.045	0.5	14.0	6.5	2.8	Machine
TC - 200M - 3A - 5026	20	15	0.021	3.0	16.5	9.0	4.4	Manual
TC - 300M - 2A - 5026	30	25	0.035	2.0	16.0	8.0	4.0	Manual
TC - 600M - 3A - 5026	60	35	0.038	3.0	17.0	9.0	5.8	Manual
TC - 680M - 1A - 5026	68	60	0.101	1.0	16.0	7.5	3.6	Machine
TC - 101M - 2A - 5026	100	63	0.080	2.0	16.0	9.0	5.2	Manual
TC - 221M - 1A - 5026	220	162	0.170	1.0	16.5	8.0	4.4	Machine
TC - 220M - 5A - 6026	22	15	0.013	5.0	21.0	10.5	8.0	Manual
TC - 290M - 4A - 6026	29	20	0.020	4.0	19.0	9.0	7.8	Manual
TC - 350M - 3A - 6026	35	28	0.035	3.0	20.5	10.5	7.6	Manual
TC - 580M - 2A - 6026	58	45	0.050	2.0	19.0	10.0	7.2	Manual
TC - 900M - 3A - 6026	90	52.5	0.044	3.0	20.5	12.5	9.2	Manual
TC - 111M - 2A - 6026	110	79	0.069	2.0	18.5	10.0	8.0	Manual
TC - 131M - 1A - 6026	130	116	0.180	1.0	19.0	9.0	6.4	Machine
TC - 471M - 1A - 6026	470	310	0.350	1.0	19.5	10.0	7.6	Machine
TC - 250M - 5A - 6826	25	18	0.016	5.0	22.0	9.0	9.2	Manual
TC - 320M - 4A - 6826	32	24	0.021	4.0	22.0	9.0	9.0	Manual
TC - 430M - 3A - 6826	43	30	0.028	3.0	21.0	8.5	8.8	Manual
TC - 650M - 4A - 6826	65	55	0.055	2.0	22.0	9.0	8.2	Manual
TC - 111M - 4A - 6826	110	56	0.042	4.0	23.0	11.0	11.4	Manual
TC - 131M - 3A - 6826	130	77	0.055	3.0	23.0	10.5	10.6	Manual
TC - 151M - 1A - 6826	150	137	0.160	1.0	21.5	9.0	7.6	Machine
TC - 231M - 2A - 6826	230	148	0.108	2.0	22.5	9.5	9.8	Machine
TC - 501M - 1A - 6826	500	355	0.300	1.0	22.0	9.0	8.6	Machine
TC - 500M - 5A - 8026	50	33	0.022	5.0	24.5	10.0	14.2	Manual
TC - 600M - 4A - 8026	60	42	0.030	4.0	25.0	11.0	13.7	Manual
TC - 750M - 3A - 8026	75	54	0.039	3.0	24.0	11.0	13.0	Manual
TC - 820M - 3A - 8026	82	60	0.042	3.0	24.0	10.5	13.0	Manual
TC - 101M - 5A - 8026	100	53	0.033	5.0	25.0	11.5	16.8	Manual
TC - 111M - 2A - 8026	110	90	0.074	2.0	25.5	10.0	12.0	Machine
TC - 151M - 5A - 8026	150	68	0.042	5.0	25.0	13.0	18.0	Manual
TC - 221M - 4A - 8026	220	105	0.059	4.0	26.0	13.0	17.9	Manual
TC - 271M - 3A - 8026	270	140	0.100	3.0	27.0	11.5	16.6	Machine
TC - 321M - 2A - 8026	320	193	0.131	2.0	27.0	11.0	14.0	Machine



Part No.	Inductance @ 1kHz		DCR ( $\Omega$ ) Max.	I <sub>rms</sub> (A) Max.	Dimension (mm)		Weight (Grams) (For Ref.)	Winding method
	At I <sub>dc</sub> =0A ( $\mu$ H)	At I <sub>dc</sub> ( $\mu$ H)			A Max.	D Max.		
TC - 431M - 2A - 8026	430	246	0.145	2.0	26.0	11.0	15.0	Machine
TC - 961M - 1A - 8026	960	625	0.450	1.0	26.0	11.0	13.0	Machine
TC - 900M - 5A - 9026	90	54	0.034	5.0	28.0	14.5	23.6	Manual
TC - 141M - 3A - 9026	140	98	0.082	3.0	29.0	13.0	22.0	Machine
TC - 201M - 2A - 9026	200	154	0.114	2.0	28.5	13.0	20.8	Machine
TC - 321M - 5A - 9026	320	120	0.068	5.0	29.0	16.0	29.6	Manual
TC - 451M - 2A - 9026	450	280	0.174	2.0	29.0	14.0	23.0	Machine
TC - 471M - 1A - 9026	470	398	0.354	1.0	26.5	13.0	19.5	Machine
TC - 471M - 3A - 9026	470	225	0.150	3.0	29.5	14.0	27.0	Machine
TC - 182M - 1A - 9026	1800	1130	0.680	1.0	27.5	14.0	22.4	Machine
TC - 820M - 5A - 9426	82	52	0.033	5.0	31.0	15.5	22.4	Manual
TC - 101M - 4A - 9426	100	69	0.042	4.0	29.5	13.5	21.9	Manual
TC - 131M - 3A - 9426	130	96	0.061	3.0	29.0	13.0	21.6	Machine
TC - 221M - 2A - 9426	220	170	0.121	2.0	28.5	12.0	20.6	Machine
TC - 301M - 5A - 9426	300	120	0.064	5.0	30.0	15.5	28.8	Manual
TC - 391M - 4A - 9426	390	165	0.088	4.0	29.5	15.0	27.2	Manual
TC - 471M - 1A - 9426	470	400	0.342	1.0	27.5	11.5	19.0	Machine
TC - 501M - 3A - 9426	500	242	0.124	3.0	31.0	14.5	26.0	Machine
TC - 781M - 2A - 9426	780	428	0.220	2.0	30.0	13.5	24.1	Machine
TC - 132M - 1A - 9426	1300	933	0.585	1.0	28.5	12.5	21.2	Machine
TC - 300M - 10A - 10626	30	21	0.009	10.0	36.0	19.5	42.0	Manual
TC - 350M - 10A - 10626	35	25	0.010	10.0	36.0	19.5	43.0	Manual
TC - 560M - 7A - 10626	56	41.5	0.020	7.0	34.0	18.0	40.0	Manual
TC - 680M - 7A - 10626	68	46	0.021	7.0	34.0	18.0	40.0	Manual
TC - 820M - 7A - 10626	82	53	0.023	7.0	34.0	18.0	41.0	Manual
TC - 101M - 5A - 10626	100	75	0.036	5.0	33.5	17.0	39.0	Manual
TC - 151M - 4A - 10626	150	110	0.053	4.0	32.5	16.5	38.4	Manual
TC - 201M - 3A - 10626	200	157	0.078	3.0	34.0	15.0	37.8	Machine
TC - 301M - 2A - 10626	300	250	0.150	2.0	34.0	15.0	37.8	Machine
TC - 851M - 2A - 10626	850	567	0.300	2.0	35.0	16.5	41.8	Machine
TC - 750M - 10A - 13026	75	43	0.014	10.0	42.0	19.5	64.0	Manual
TC - 131M - 7A - 13026	130	79	0.031	7.0	41.0	18.0	58.0	Manual
TC - 201M - 5A - 13026	200	134	0.056	5.0	39.0	17.0	55.6	Manual
TC - 251M - 10A - 13026	250	105	0.027	10.0	42.5	21.5	82.0	Manual
TC - 471M - 7A - 13026	470	190	0.064	7.0	40.5	19.5	72.0	Manual
TC - 681M - 5A - 13026	680	295	0.105	5.0	39.0	18.5	65.2	Manual

\* Due to the limited space, the catalogue shows the typical specifications only. For more specific details ( characteristics graph, reliability, and others), kindly invite you to access 3L official website [www.3lcoil.com](http://www.3lcoil.com) for better known.