## TIGHTpak<sup>™</sup>Toroidal Common Mode Line Choke



Actown's Toroid style of common mode chokes are designed with patented TIGHTpak technology. Within a single layer winding 70% more turns are achievable over a traditional winding using the same size core and wire gauge.

Parts are constructed to an industry standard footprint. Materials comply with 94V-0 flammability specifications. A 3mm spacer between each winding provides creepage and clearance to comply with UL, CSA, and IEC safety specifications.





TIGHTpak winding

Traditional winding









_		Current	Leakage								Lead	PC Board
Part	Inductance	Rating	Inductance	SRF	DCR	L.	W	н	Х	Y	Diameter	Hole
Number	min (mH)	Amps	max (uH)	typ (Khz)	max (ohms)	Max	Max	Max	(inches)	(inches)	Nom	Diameter
TPCM-2.8-3	2.83	3	50	755	0.049	1.15	0.70	1.15	0.80	0.40	0.029	0.047
TPCM-3.9-3	3.93	3	71	550	0.063	1.20	0.70	1.30	0.80	0.40	0.029	0.047
TPCM-1.7-5	1.73	5	31	1070	0.025	1.15	0.70	1.15	0.80	0.40	0.036	0.055
TPCM-2.4-5	2.41	5	45	775	0.036	1.20	0.70	1.30	0.80	0.40	0.036	0.055
TPCM-6.6-5	6.61	5	94	450	0.059	1.50	1.00	1.50	1.20	0.70	0.036	0.055
TPCM-1.0-8	1.00	8	18	1500	0.013	1.15	0.70	1.15	0.80	0.40	0.045	0.067
TPCM-4.4-8	4.35	8	60	545	0.036	1.50	1.00	1.50	1.20	0.70	0.045	0.067
TPCM-7.0-8	6.96	8	109	350	0.044	1.70	1.00	1.80	1.20	0.70	0.045	0.067
TPCM-0.8-10	0.80	10	14	1480	0.010	1.15	0.70	1.15	0.80	0.40	0.051	0.070
TPCM-3.3-10	3.27	10	49	635	0.022	1.50	1.00	1.50	1.20	0.70	0.051	0.070
TPCM-5.6-10	5.57	10	83	400	0.031	1.70	1.00	1.80	1.20	0.70	0.051	0.070
TPCM-3.8-13	3.78	13	65	510	0.021	1.75	1.00	1.75	1.20	0.70	0.057	0.079

Current rating based on 250 circular mils/amp Inductance measured @ 10Khz .10Vrms Electrical specifications at 25C Operating temperatures -40C to 85C 1500 Vrms dielectric between windings RoHS compliant



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## The closest to ideal you can get.

Most engineers would rather work with ideal components than with more complex, real-world components. The calculations would be simpler and the headaches would be less severe. Seldom do engineers have that choice.

## Now they do.

PATENT PENDING

Actown Electrocoil, Inc. introduces a new technology that brings toroidal inductors one step closer to ideal. TIGHTpak toroids are designed to allow more turns per single layer of windings, allowing the engineer to work with components that exhibit behavior closer to ideal than previously possible.

TIGHTpakToroid.com

Visit for details of this new toroidal technology

Ideal inductors are purely inductive with no capacitance. Operation becomes much more complex in inductors with multiple layers of windings because of the effects of parasitic capacitance now magnified by the multiple layers. EMI concerns, reduced circuit predictability, and a lower SRF (Self Resonant Frequency) all contribute to more complex and usually unattractive circuit behavior. Keeping a toroid's geometry to a single layer minimizes complexity and maximizes design efficiency.

TIGHTpak toroids can keep your toroidal geometry to a single layer, making design and manufacturing more ideal.

Actown Electrocoil, Inc. was formed back in 1952, as a modest coil-winding house in the suburbs of Chicago. Through strategic acquisitions, partnerships, joint ventures, and internal growth, Actown Electrocoil, Inc. has grown into a leading transformer and coil supplier with extensive global design, manufacturing, and procurement capabilities.

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