FERRITE TOROIDAL COMMON MODE INDUCTORS

These inductors operate as current compensated chokes.

Electronic devices primarily generate common mode interference.

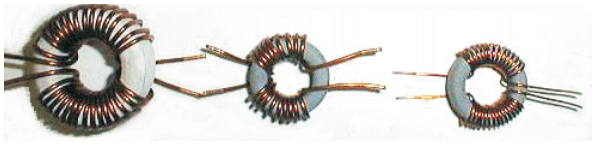
In order to meet the limit values of the safety requirements (limiting the leakage current and consequently the capacitance of Y capacitors), chokes with high unsymmetrically operating inductance must be used.

Current compensated ring core chokes are particularly suitable for this purpose. Their core is not saturated by the operating current due to a special winding configuration.

Therefore it is possible to use high permeability cores.

Due to their construction there is relatively little suppression of differential mode interference by current compensated chokes. It is therefore necessary to combine them with symmetrically connected capacitors or powder core chokes.

Standard Configuration



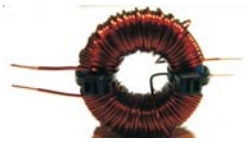
Upright

Centre Insulator

Mounted on a Pc board

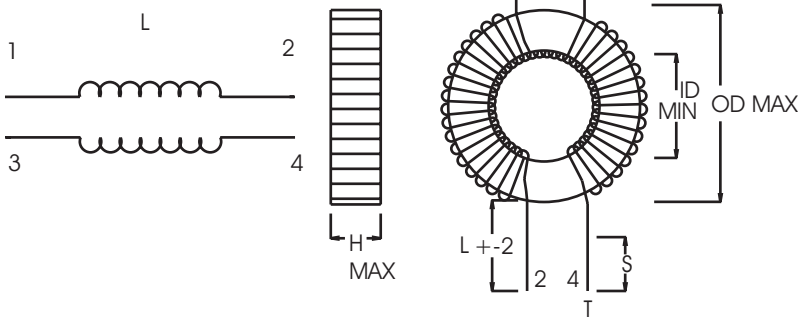
Pc Board Version

Cable Tie Version



Standard Configuration Dimensions

A) CIRCUIT DIAGRAM



TECHNICAL DATA

Manufacturing Standard.
Manufactured to BS 613

1. INDUCTANCE TOLERANCE:
+- 30%

2. RATED CURRENT:
Referred to 50 Hz.

3. RATED INDUCTANCE:
Measured at 1Khz at 25 ^{o} C

4. TEST VOLTAGE:
1500 V.a.c. 2 Secs. (Winding to winding.)

Amps	Milli henries.	OD	ID	H	T	L	No turns per winding	Temp rise ^{o} C.	Configuration	Code
SIZE 1										
2	1.38	15.5	5	8	.355	16	23	26	Standard	40/313
3	.587	15.5	5	8	.5	16	15	29	Standard	40/216
SIZE 2										
1	13	25	9	10	.355	16	70	26	Standard	40/270
3	2.39	25	10	8	.5	16	30	25	Standard	40/209
5	.68	25	10	8	.71	16	16	29	Standard	40/210
6	.68	25	10	9	.9	16	16	22	Standard	40/215
7.5	.45	25	10	9	.9	16	13	28	Standard	40/211
10	.266	26	9	10	1.18	16	10	29	Standard	40/213

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Amps	Milli henries.	OD	ID	H	T	L	No turns per winding	Temp rise ^{o} C.	Configuration	Code
SIZE 3										
3	15.1	30	9	14.5	.63	16	55	29	Cable Tie	40/403
5	1.38	30	9	12.5	1.	27	16	20	Centre Insulator	40/658
6	1.5	27	6	12	.9	16	22	29	Standard	40/466
10	.35	29	10	12.5	1+1	30	8 Bifilar	20	Pc Board	40/659
SIZE 4										
4	9.776	38	11	19	.71	16	42	27	Standard	40/129
6.5	2.0	38	12	18	1.0	16	19	28	Standard	40/275
10	1.247	38	11	18	1.32	16	15	28	Standard	40/217
13.5	1.086	38	11	18	1.4	16	14	20	Standard	40/296
15	.73	39	11	20	1.6	16	12	15	Upright	40/652
16	.67	38	11	19	1.6	16	11	29	Standard	40/376
25	.448	38	10	20	2.0	16	8	45	Standard	40/373