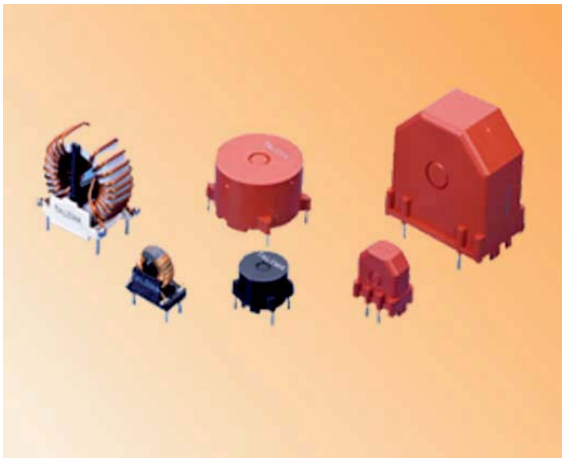
talema group

CA Series • Common Mode Toroidal Chokes

CA Series common mode toroidal chokes provide an efficient means of filtering supply lines having in-phase signals of equal amplitude thus allowing equipment to meet stringent electrical radiation specifications. Wide frequency ranges can be filtered by using high and low inductance Common Mode toroids in series. Differential mode signals can be attenuated substantially when used together with input and output capacitors.



Features

- Separated windings for minimum capacitance
- Meets requitements of EN138100,VDE 0565, Part2:1997-03 & UL1283
- Competitive pricing due to high volume production
- Manufactured in ISO 9001:2008, ISO/TS 16949:2009 and ISO 14001:2004 certified Talema facility
- Fully RoHS & REACH Compliant

Electrical Specifications @25°C

Test frequency: Inductance measured @10KHz / 0.50Vac
Test voltage between windings: 1500Vac
Operating temperature: -40°C to +125°C
Climatic category: IEC68-1 40/125/56

Part Number	I_{DC} Amp	L_O(mH) ±30% (2x)	DCR mOhm (2x)	Coil Size O.D. x Ht. (Nominal)	Mtg. Style Size		
					B	V / X	F
CA__-0.4-100	0.4	100	2,807	18 x 7	3	3	3
CA__-0.5-100	0.5	100	2,044	23 x 11	5	4	4
CA__-0.6-100	0.6	100	1,543	29 x 13	5	4A	6
CA__-1.4-100	1.4	100	484	35 x 16	8	9	9
CA__-0.4-82	0.4	82	1,167	15 x 8	3	3	3
CA__-0.5-82	0.5	82	1,851	23 x 11	5	4	4
CA__-0.6-82	0.6	82	1,397	29 x 13	5	4A	6
CA__-1.6-82	1.6	82	350	35 x 16	8	9	9
CA__-0.3-68	0.3	68	3,692	15 x 8	3	2	2
CA__-0.5-68	0.5	68	1,853	18 x 7	3	3	3
CA__-0.6-68	0.6	68	1,353	23 x 11	5	4	4
CA__-0.7-68	0.7	68	1,108	29 x 13	5	4A	6
CA__-1.8-68	1.8	68	277	35 x 16	8	9	9
CA__-0.3-56	0.3	56	3,126	14 x 8	3	2	2
CA__-0.5-56	0.5	56	1,518	18 x 7	3	3	3
CA__-0.6-56	0.6	56	1,378	23 x 11	5	4	4
CA__-0.8-56	0.8	56	807	29 x 13	5	4A	6
CA__-2.0-56	2.0	56	228	35 x 16	8	9	9
CA__-0.4-47	0.4	47	1,942	14 x 8	3	2	2
CA__-0.5-47	0.5	47	1,390	18 x 7	3	3	3
CA__-0.6-47	0.6	47	1,001	23 x 11	5	4	4
CA__-0.9-47	0.9	47	658	29 x 13	5	4A	6
CA__-2.2-47	2.2	47	185	35 x 16	8	9	9
CA__-0.4-39	0.4	39	1,769	14 x 8	3	2	2
CA__-0.5-39	0.5	39	1,267	18 x 7	3	3	3
CA__-0.6-39	0.6	39	912	23 x 11	5	4	4
CA__-1.0-39	1.0	39	537	29 x 13	5	4A	6
CA__-2.5-39	2.5	39	150	36 x 17	8	9	9
CA__-0.4-33	0.4	33	1,628	14 x 8	3	2	2
CA__-0.6-33	0.6	33	837	18 x 7	3	3	3
CA__-0.7-33	0.7	33	751	23 x 11	5	4	4
CA__-1.1-33	1.1	33	434	29 x 13	5	5	6
CA__-2.7-33	2.7	33	124	36 x 17	8	9	9

Part Number	I_{DC} Amp	L_O (mH) ±30% (2x)	DCR mOhm (2x)	Coil Size O.D. x Ht. (Nominal)	Mtg. Style Size		
					B	V / X	F
CA__-0.5-27	0.5	27	1,179	14 x 8	3	2	2
CA__-0.8-27	0.8	27	674	18 x 7	3	3	3
CA__-1.0-27	1.0	27	537	23 x 11	5	4	4
CA__-1.4-27	1.4	27	279	30 x 14	5	4A	6
CA__-3.2-27	3.2	27	87	37 x 17	8	9	9
CA__-0.5-22	0.5	22	960	14 x 8	3	2	2
CA__-0.9-22	0.9	22	542	18 x 7	3	3	3
CA__-1.0-22	1.0	22	485	23 x 11	5	4	4
CA__-1.5-22	1.5	22	227	30 x 14	5	4A	6
CA__-3.6-22	3.6	22	70	37 x 17	8	9	9
CA__-0.6-18	0.6	18	868	14 x 8	3	2	2
CA__-1.0-18	1.0	18	439	18 x 7	3	3	3
CA__-1.1-18	1.1	18	388	23x 11	5	4	4
CA__-1.6-18	1.6	18	205	30 x 14	5	4A	6
CA__-3.9-18	3.9	18	57	36 x 17	8	9	9
CA__-0.6-15	0.6	15	793	14 x 8	3	2	2
CA__-1.0-15	1.0	15	401	18 x 7	3	3	3
CA__-1.2-15	1.2	15	315	23 x 11	5	4	4
CA__-1.8-15	1.8	15	167	30 x 14	5	4A	6
CA__-4.3-15	4.3	15	47	36 x 17	8	9	9
CA__-0.7-12	0.7	12	709	14 x 8	3	2	2
CA__-1.1-12	1.1	12	358	18 x 7	3	3	3
CA__-1.4-12	1.4	12	253	23 x 11	5	4	4
CA__-1.9-12	1.9	12	149	30 x 13	5	4A	6
CA__-4.9-12	4.9	12	37	36 x 17	8	9	9
CA__-0.7-10	0.7	10	647	14 x 8	3	2	2
CA__-1.2-10	1.2	10	285	18 x 7	3	3	3
CA__-1.6-10	1.6	10	203	23 x 11	5	4	4
CA__-2.0-10	2.0	10	136	29 x 13	5	4A	6
CA__-5.0-10	5.0	10	34	36 x 17	8	9	9
CA__-1.1-6.8	1.1	6.8	342	14 x 8	3	2	2
CA__-1.3-6.8	1.3	6.8	235	18 x 7	3	3	3
CA__-2.0-6.8	2.0	6.8	148	23 x 11	5	4	4
CA__-2.6-6.8	2.6	6.8	79	30 x 13	5	4A	6
CA__-5.5-6.8	5.5	6.9	28	35 x 16	8	9	9

technoLASA Via Max Planck, 1 39100 BOLZANO - Italy - Tel +39 0471 305400 www.technolasa.com

CA Series • Common Mode Toroidal Chokes

Electrical Specifications @25°C

Part Number	I_{DC} Amp	L_O(mH) ±30% (2x)	DCR mOhm (2x)	Coil Size O.D. x Ht. (Nominal)	Mtg. Style Size		
					B	V / X	F
CA__-1.2-5.6	1.2	5.6	276	14 x 8	3	2	2
CA__-1.5-5.6	1.5	5.6	193	18 x 7	3	3	3
CA__-2.0-5.6	2.0	5.6	120	23 x 11	5	4	4
CA__-2.8-5.6	2.8	5.6	72	29 x 13	5	4A	6
CA__-5.9-5.6	5.9	5.6	26	35 x 16	8	9	9
CA__-1.2-4.7	1.2	4.7	253	14 x 8	3	2	2
CA__-1.6-4.7	1.6	4.7	110	18 x 7	3	3	3
CA__-1.9-4.7	1.9	4.7	99	23 x 11	5	4	4
CA__-3.0-4.7	3.0	4.7	58	29 x 13	5	5	6
CA__-6.2-4.7	6.2	4.7	23	34 x 15	8	9	9
CA__-1.3-3.9	1.3	3.9	230	14 x 8	3	2	2
CA__-1.8-3.9	1.8	3.9	100	18 x 7	3	3	3
CA__-2.1-3.9	2.1	3.9	81	23 x 11	5	4	4
CA__-3.5-3.9	3.5	3.9	42	30 x 14	5	5	6
CA__-6.8-3.9	6.8	3.9	19	34 x 15	8	9	9
CA__-1.5-3.3	1.5	3.3	165	14 x 8	3	2	2
CA__-2.0-3.3	2.0	3.3	92	18 x 7	3	3	3
CA__-3.0-3.3	3.0	3.3	52	23 x 11	5	4	4
CA__-4.0-3.3	4.0	3.3	34	30 x 14	5	5	6
CA__-7.5-3.3	7.5	3.3	16	34 x 15	8	9	9
CA__-1.5-2.7	1.5	2.7	172	14 x 8	3	2	2
CA__-2.2-2.7	2.2	2.7	83	18 x 7	3	3	3
CA__-3.5-2.7	3.5	2.7	47	23 x 11	5	4	4
CA__-4.8-2.7	4.8	2.7	22	30 x 14	5	5	6
CA__-7.8-2.7	7.8	2.7	14	34 x 15	8	9	9
CA__-1.6-2.2	1.6	2.2	135	14 x 7	3	2	2
CA__-2.3-2.2	2.3	2.2	75	18 x 7	3	3	3
CA__-4.0-2.2	4.0	2.2	30	23 x 11	5	4	4
CA__-5.8-2.2	5.8	2.2	16	31 x 15	5	5	6
CA__-8.2-2.2	8.2	2.2	13	34 x 15	8	9	9
CA__-1.6-1.8	1.6	1.8	111	14 x 8	3	2	2
CA__-2.5-1.8	2.5	1.8	60	18 x 7	3	3	3
CA__-4.5-1.8	4.5	1.8	27	23 x 11	5	4	4
CA__-6.0-1.8	6.0	1.8	14	30 x 14	5	5	6
CA__-8.7-1.8	8.7	1.8	12	34 x 15	8	9	9
CA__-1.8-1.5	1.8	1.5	89	14 x 8	3	2	2
CA__-2.8-1.5	2.8	1.5	49	18 x 7	3	3	3
CA__-5.0-1.5	5.0	1.5	22	23 x 11	5	4	4
CA__-7.0-1.5	7.0	1.5	11	31 x 15	5	5	6
CA__-9.1-1.5	9.1	1.5	11	33 x 14	8	9	9

Part Number	I_{DC} Amp	L_O(mH) ±30% (2x)	DCR mOhm (2x)	Coil Size O.D. x Ht. (Nominal)	Mtg. Style Size		
					B	V / X	F
CA__-1.9-1.2	1.9	1.2	71	14 x 8	3	2	2
CA__-3.1-1.2	3.1	1.2	44	18 x 7	3	3	3
CA__-5.0-1.2	5.0	1.2	20	23 x 11	5	4	4
CA__-7.5-1.2	7.5	1.2	10	30 x 41	5	5	6
CA__-9.6-1.2	9.6	1.2	10	33 x 14	8	9	9
CA__-2.0-1.0	2.0	1.0	65	14 x 8	3	2	2
CA__-3.5-1.0	3.5	1.0	32	18 x 6	3	3	3
CA__-5.0-1.0	5.0	1.0	18	23 x 11	5	4	4
CA__-7.8-1.0	7.8	1.0	9	30 x 14	5	5	6
CA__-10-1.0	10	1.0	9	33 x 14	8	9	9
CA__-2.8-0.68	2.8	0.68	37	14 x 8	3	2	2
CA__-4.2-0.68	4.2	0.68	21	18 x 7	3	3	3
CA__-6.0-0.68	6.0	0.68	13	23 x 11	5	4	4
CA__-8.5-0.68	8.5	0.68	7	30 x 14	5	4A	6
CA__-11-0.68	11	0.68	7	33 x 14	8	9	9
CA__-3.6-0.47	3.6	0.47	28	14 X 8	3	2	2
CA__-6.0-0.47	6.0	0.47	11	18 x 7	3	3	3
CA__-7.0-0.47	7.0	0.47	10	23 x 11	5	4	4
CA__-9.5-0.47	9.5	0.47	6	29 x 13	5	5	6
CA__-12-0.47	12	0.47	6	32 x 13	8	9	9
CA__-3.2-0.33	3.2	0.33	17	14 x 8	3	2	2
CA__-6.1-0.33	6.1	0.33	7	18 x 6	3	3	3
CA__-7.2-0.33	7.2	0.33	7	23 x 11	5	4	4
CA__-10-0.33	10	0.33	5	29 X 13	5	4A	6
CA__-13-0.33	13	0.33	5	32 x 13	8	9	9
CA__-3.7-0.22	3.7	0.22	12	14 x 8	3	2	2
CA__-7.6-0.22	7.6	0.22	5	18 x 7	3	3	3
CA__-8.9-0.22	8.9	0.22	4	23 x 11	5	4	4
CA__-11-0.22	11	0.22	4	29 x 12	5	5	6
CA__-13-0.22	13	0.22	4	32 x 13	8	9	9
CA__-4.6-0.15	4.6	0.15	8	14 x 8	3	2	2
CA__-9.3-0.15	9.3	0.15	3	18 x 7	3	3	3
CA__-10-0.15	10	0.15	3	23 x 11	5	4	4
CA__-12-0.15	12	0.15	3	29 x 12	5	5	6
CA__-16-0.15	16	0.15	3	32 x 13	8	9	9
CA__-5.7-0.10	5.7	0.10	5	14 x 8	3	2	2
CA__-10-0.10	10	0.10	2	18 x 7	3	3	3
CA__-12-0.10	12	0.10	2	22 x 11	5	4	4
CA__-13-0.10	13	0.10	3	28 x 12	5	5	6
CA__-17-0.10	17	0.10	3	32 x 13	8	9	9

Talema's Engineering staff can assist in the design of other inductance values and sizes.

Notes:

1) Inductance measured @10 KHz
   L < 2mH test level < 2.5mA
   L > 2mH test level < 250mV
2) Inductance loss <10% by DC preload with I_N (current compensated).
3) DC Resistance measured at 25°C ±5°C.
4) Test voltage per VDE 0565/2
5) 250Vac Nominal Operating Voltage
6) Maximum Ambient Temperature: 60°C

Ordering Key

CA B - 0.5 - 10mH

- 10mH — Inductance Value per Winding
- 0.5 — Current Rating (Amps)
- B — Mounting Style
  - O = Open: 'OV' - Vertical & 'OH' - Horizontal Mount
  - B = Base Mount
  - V = Vertical Encapsulated - Pins 7 - 2 and 6 - 3
  - X = Vertical Encapsulated - Pins 8 - 1 and 5 - 4
  - F = Flat Encapsulated
- CA — Basic Series Designation

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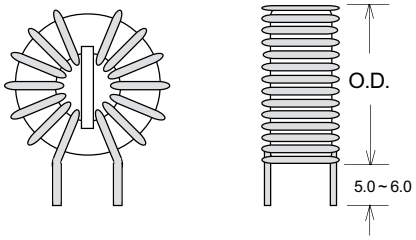
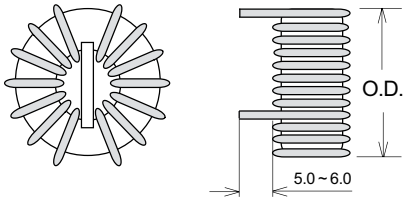
Mounting Style • CA Series • Common Mode Toroidal Chokes

Open Style

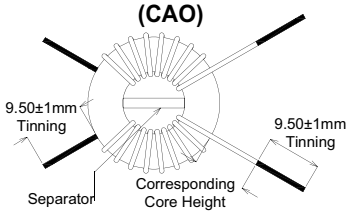
Style 'OV' - Vertical Mount (CAOV)



Style 'OH' - Horizontal Mount (CAOH)

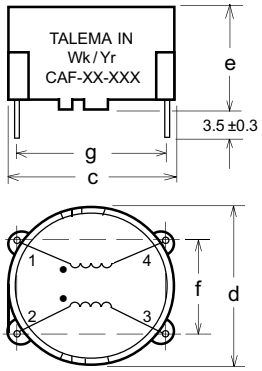


Style 'O' - Open Mount with Flyleads (CAO)



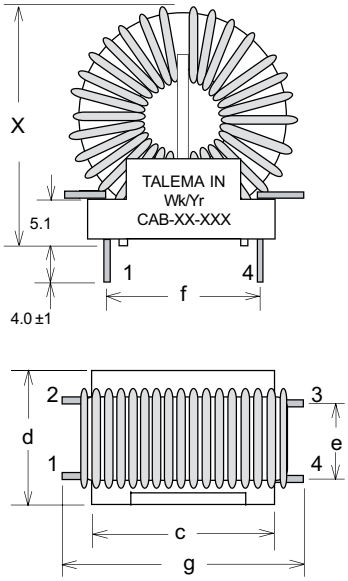
Flat Mount

Type-F

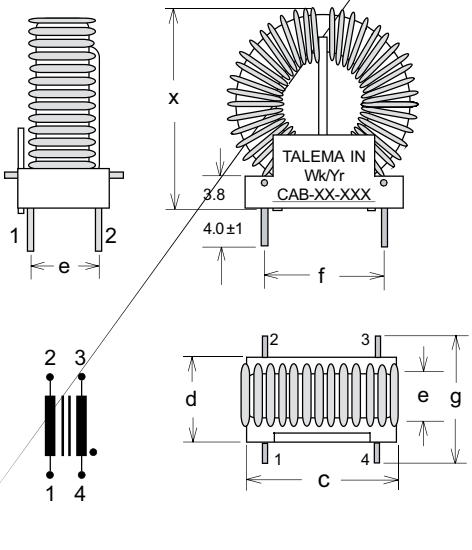


Type B - Base Mount (CAB)

Type B-I

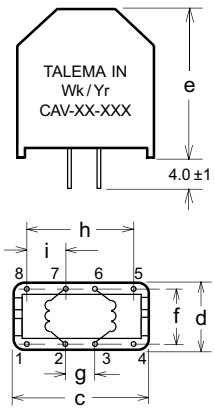


Type B-II

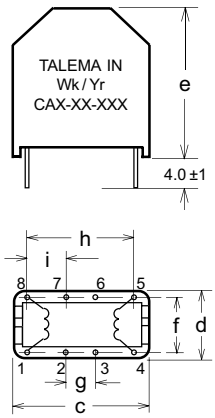


Vertical Mount

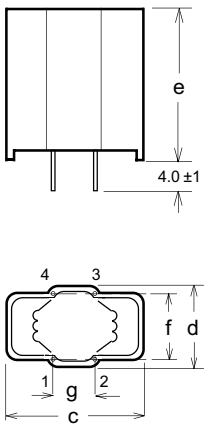
Type-V



Type-X



Size-4A



Mounting Style		Size Code	Dimension Tolerance - Inches ±0.010 (mm±0.25)								
			c	d	e	f	g	h	i	x	Pin Ø
Base Mount	B-II	3	19.1	10.8	6.4	15.2	15.9	--	--	Coil O.D. + 3.8	1.02
	B-I	5	25.4	16.0	10.2	20.3	34.3	--	--	Coil O.D. + 3.5	1.27
		8	27.9	20.3	15.2	22.9	36.8	--	--		
Vertical Mount	"V" Pins 7-2 & 6-3	2	17.8	12.8	20.0	10.0	5.0	15.0	5.0	--	0.60 x 0.88
		3	23.0	15.5	25.0	12.5	10.0	20.0	5.0	--	
		4	27.0	18.0	30.0	15.0	12.5	22.5	5.0	--	0.60 x 0.88
	"X" Pins 8-1 & 5-4	4A	32.5	18.0	35.0	15.0	12.5	--	--	--	
		5	32.0	20.5	35.0	17.5	12.5	27.5	7.5	--	0.75 x 1.10
		9	43.0	28.0	47.5	25.0	25.0	40.0	7.5	--	
Flat Mount	F	2	17.5	17.0	12.5	10.0	15.0	--	--	--	0.60 x 0.88
		3	22.5	22.0	15.0	12.5	20.0	--	--	--	
		4	27.5	27.0	17.5	15.0	25.0	--	--	--	0.60 x 0.88
		6	32.5	32.0	20.0	20.0	30.0	--	--	--	
		9	42.5	42.0	28.5	25.0	35.0	--	--	--	0.60 x 0.88