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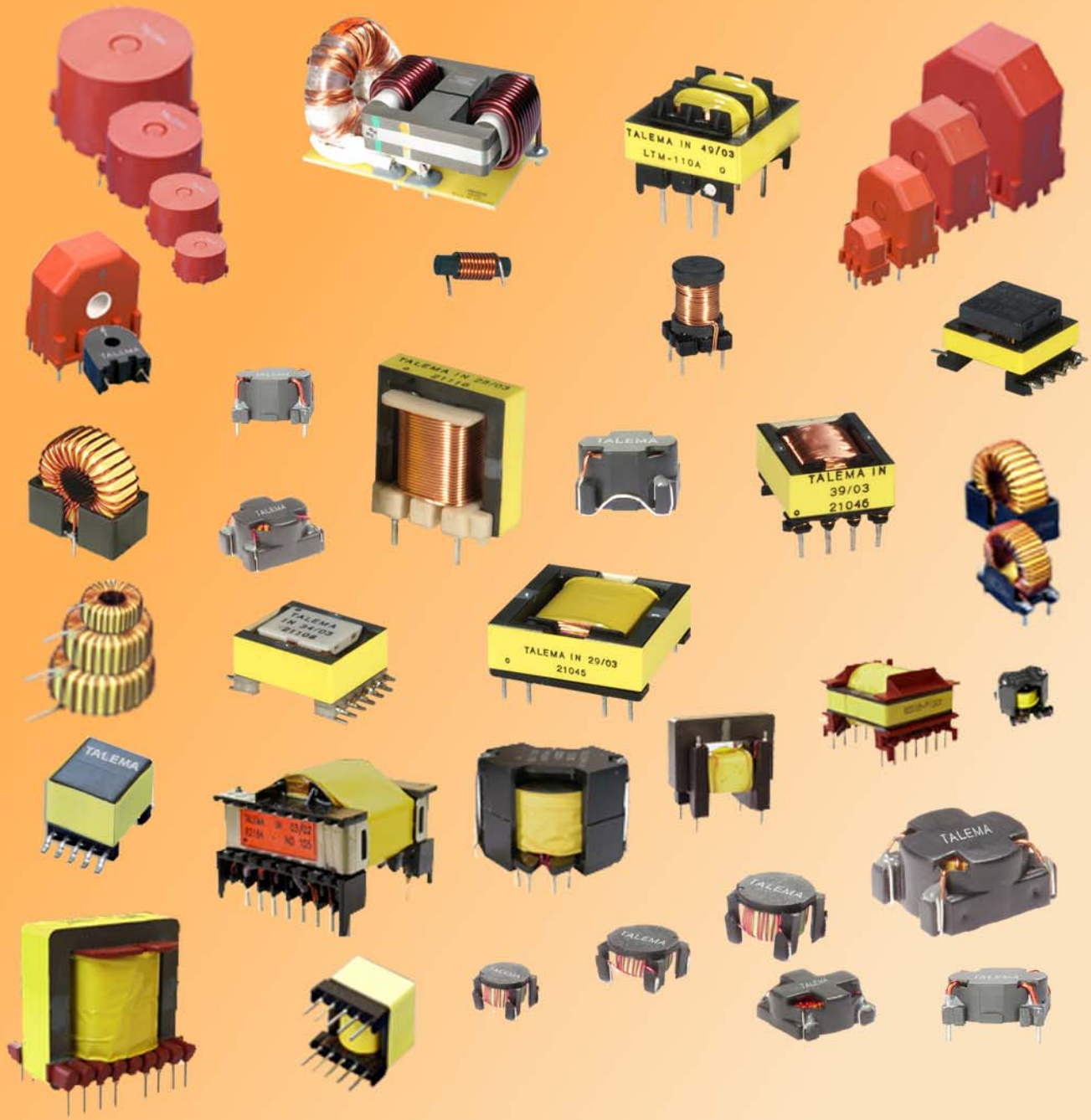
SECTION 3

- Toroidal Filters
- Storage Chokes
- Power Inductors
- Surface Mount Inductors
- Differential Mode Toroids
- Common Mode Toroidal Chokes
- Current Sense Inductors and Transformers

Inductors and Transformers For Power Magnetic Requirements



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Toroidal Chokes • Inductors • Transformers

TALEMA PROFILE

Founded in 1975, The TALEMA International Group has established itself as a world leader in the Design & Manufacture of toroidal transformers and related magnetic components. Our strong technical engineering expertise has contributed to the growth of our current workforce to over 800 employees in manufacturing locations in the Czech Republic and India.

Over the years The Talema Group has succeeded in designing, producing and delivering in excess of 50 million transformers to its customers. The recent incorporation of xDSL technology into our extensive range of Telecom and LAN magnetics offerings, such as ISDN, Ethernet transformers for 10/100/1000Base-T, has broadened our market offering to an even higher level.

QUALITY

The TALEMA Group has a total commitment to quality and employs Lean Six Sigma training for engineering, production and administrative staff to help achieve a goal of zero defects. All facilities maintain very stringent Quality Control and Quality Assurance procedures and are certified to and manufacture in accordance with ISO 9001:2015 (India) and ISO 9001:2016 (Czech Republic) and meet a broad range of International Standards including UL, VDE, IEC and EN.

ENVIRONMENT

All TALEMA International Group manufacturing facilities are RoHS & REACH Compliant and all chokes, inductors and HF Components are produced in an Environment Management System (EMS) facility certified to ISO 14001:2015 (India) and ISO 14001:2016 (Czech Republic).

CONTENTS

Visit our websites for detailed electrical and mechanical specifications for Talema's extensive line of magnetic components for Toroidal Transformers, Telecom & LAN Applications:

www.talema.com
www.nuvotem.com
www.ntmagnetics.cz

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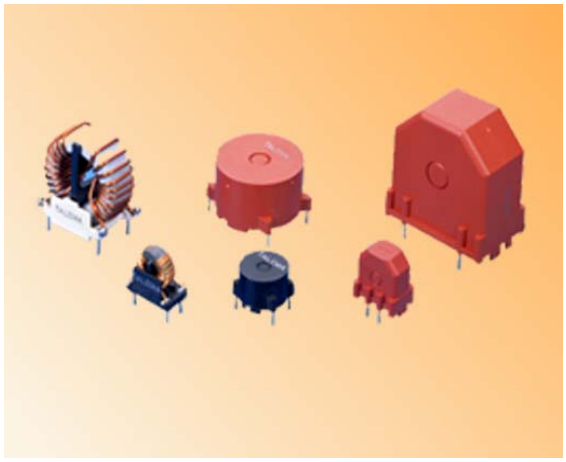
CA Series • Common Mode Toroidal Chokes

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 9001:2015 and ISO 14001:2015 certified Talema facility
- Fully RoHS & REACH Compliant

Electrical Specifications @25°C

Test frequency: Inductance measured @10KHz / 0.10Vac
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

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

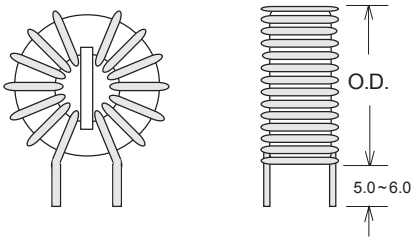
Ordering Key

CA B - 0.5 - 10mH

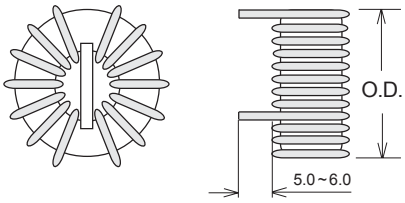
- 10mH — Inductance Value per Winding
- 0.5 — Current Rating (Amps)
- B — Mounting Style
  - O = Open: 'OV' - Vertical & 'OH' - Horizontal Mount
  - B = Base Mount
  - V = Vertical Encapsulated - Pins 7 - 2 and 6 - 3
  - X = Vertical Encapsulated - Pins 8 - 1 and 5 - 4
  - F = Flat Encapsulated
- CA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

Open Style

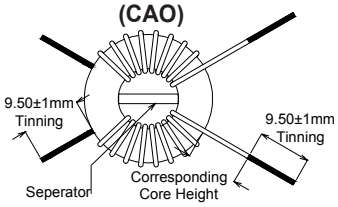
Style 'OV' - Vertical Mount (CAOV)



Style 'OH' - Horizontal Mount (CAOH)

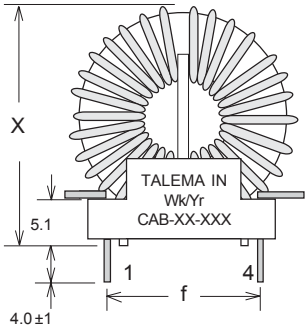


Style 'O' - Open Mount with Flyleads (CAO)

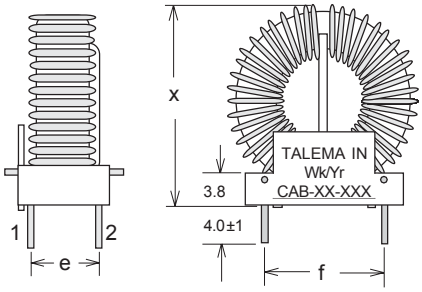


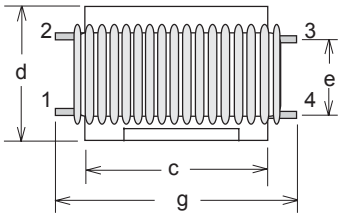
Type B - Base Mount (CAB)

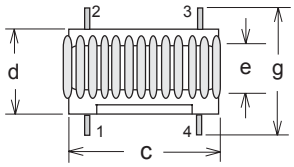
Type B-I



Type B-II

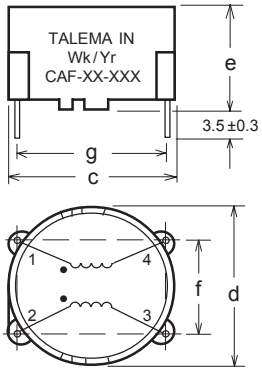






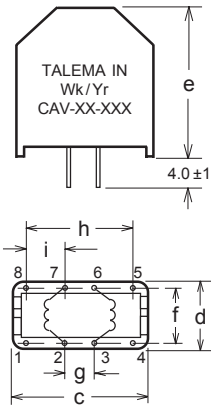
Flat Mount

Type-F

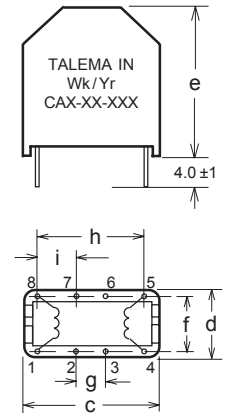


Vertical Mount

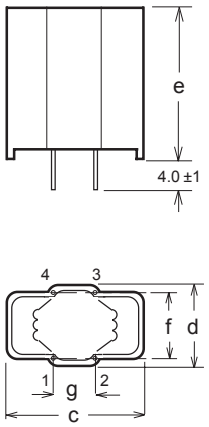
Type-V



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
		4A	32.5	18.0	35.0	15.0	12.5	--	--	--	
	"X" Pins 8-1 & 5-4	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

talema group

CD & CQ Series • CM Interface Chokes for Data and Signal Lines

Features

- High attenuation over a wide frequency range
- Low interwinding and coupling capacitance
- Wide inductance range
- Excellent quality at extremely competitive price due to high volume production
- Manufactured in an ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Other inductance values available upon request
- Fully RoHS & REACH Compliant and SMD Components meet lead free reflow level J-STD-020C

Electrical Specifications @ 25°C

Nominal Voltage: 42Vac (50/60Hz), 80Vdc
Operating Temperature: -25° to +85°C
Storage Temperature: -40° to +125°C
Climatic category: according to IEC68-1 25/85/56
Test voltage between windings: 500 Vrms

Test frequency:

Nominal Inductance:Measured @ 10KHz/100mVrms
Leakage Inductance:Measured @ 100KHz/100mVrms

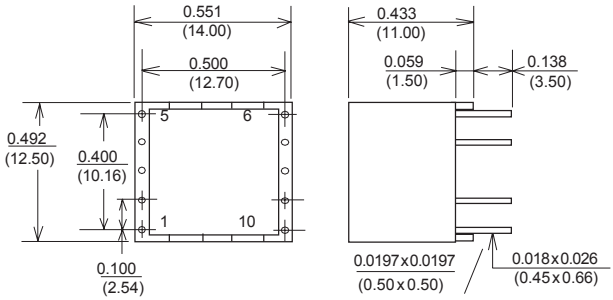
Part Number	L_N (µH) ±30%	I_N (mA)	L_L (µH)	R_{CU} (mOhms)	V_P (Vrms)	Windings per Core	Package	Schematic
CD Series - Double Chokes for EMI noise suppression								
CD__-1.0-A	1000	600	0.25	190	500	2	F / V / J	A
CD__-1.7-A	1700	550	0.42	200	500	2	F / V / J	A
CD__-2.2-A	2200	350	0.45	300	500	2	F / V / J	A
CD__-3.3-A	3300	350	0.50	370	500	2	F / V / J	A
CD__-4.7-A	4700	350	0.40	600	500	2	F / V / J	A
CD__-6.8-A	6800	350	0.55	510	500	2	F / V / J	A
CD__-10-A	10000	350	0.65	620	500	2	F / V / J	A
CD__-12-A	12000	300	0.70	680	500	2	F / V / J	A
CD__-15-A	15000	300	0.55	720	500	2	F / V / J	A
CD__-22-A	22000	300	0.85	920	500	2	F / V / J	A
CD__-28-A	28000	300	0.95	1020	500	2	F / V / J	A
CD__-33-A	33000	300	1.90	1120	500	2	F / V / J	A
CD__-50-A	50000	300	1.35	1800	500	2	F / V / J	A
CD__-70-A	70000	300	2.50	2100	500	2	F / V / J	A
CQ Series - Quad Chokes for EMI noise suppression								
CQ__-1.0-B	1000	400	0.30	200	500	4	F / V / J	B
CQ__-1.7-B	1700	350	0.40	260	500	4	F / V / J	B
CQ__-2.2-B	2200	300	0.45	310	500	4	F / V / J	B
CQ__-3.3-B	3300	300	0.50	380	500	4	F / V / J	B
CQ__-5.0-B	5000	300	0.30	430	500	4	F / V / J	B
CQ__-6.8-B	6800	300	0.55	850	500	4	F / V / J	B
CQ__-10-B	10000	300	0.65	1060	500	4	F / V / J	B
CQ__-12-B	12000	250	0.65	1120	500	4	F / V / J	B
CQ__-58-B	58000	200	1.40	2400	500	4	F / V / J	B
CQ__-90-B	90000	150	2.00	4150	500	4	F / V / J	B

When ordering Series CD or CQ, use suffix "F", "V" or "J" to designate desired package style.
CDF/CQF = Flat package, through-hole;
CDV/CQV = Vertical package, through hole;
CDJ/CQJ = Flat package, surface mount device
See following page for dimensions, schematics and typical impedence curves

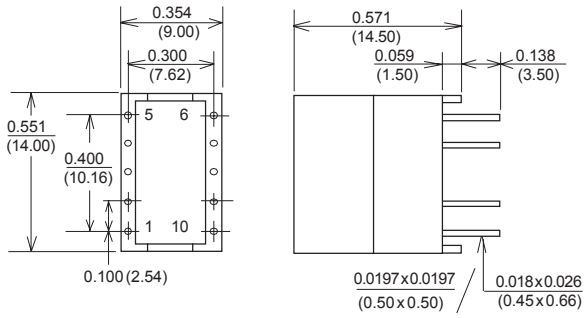
Packaging Style and Impedance Performance

Package Style

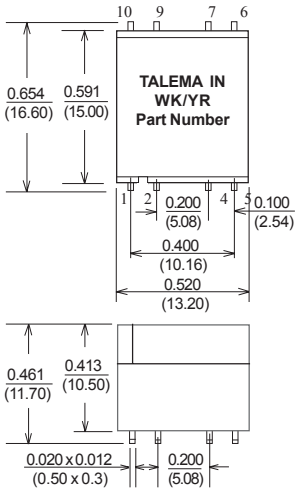
CDF/CQF



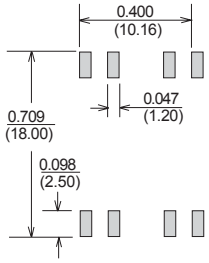
CDV/CQV



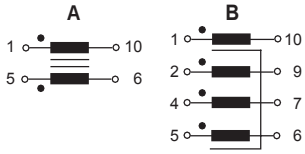
CDJ / CQJ



Suggested Pad Layout



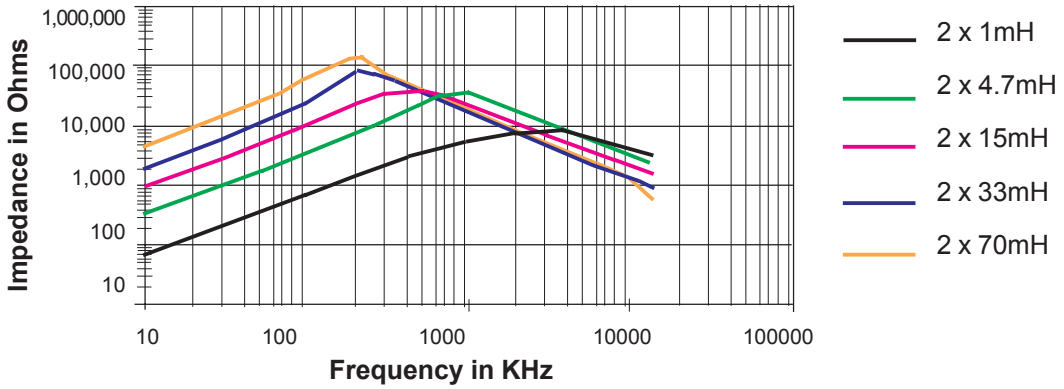
Schematics



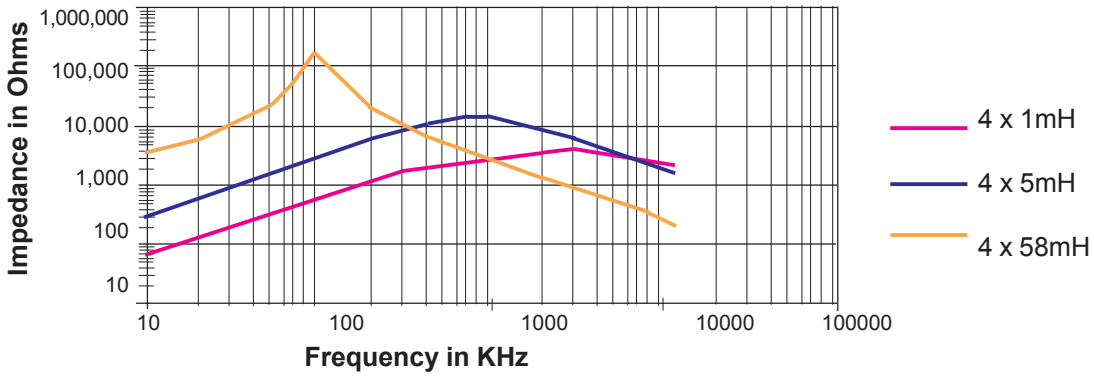
Note: Parts will be supplied with only the pins shown on Schematic A (types CDF, CDV, & CDJ) and Schematic B (types CQF, CQV & CQJ)

Dimensions: Inches (Millimeters)
Tolerance: ±0.010 (0.25) unless specified otherwise
Surface Coplanarity will be 0.004(0.10) maximum

Impedance Performance - CDx & CDx Series Double Chokes



CQx & CDx Series Quad Chokes



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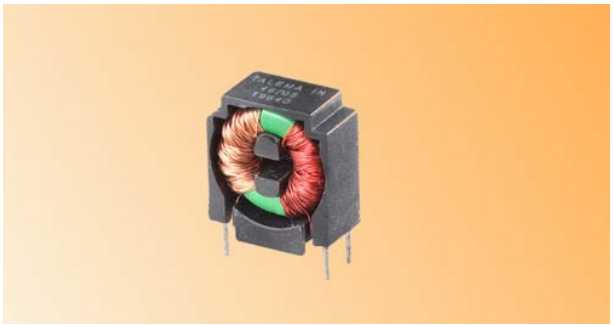
CKV Series • Current Compensated Double Chokes for Power Lines

Features

- High attenuation over a wide frequency range
- Low interwinding and coupling capacitance
- Sector Winding
- Manufactured in an ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Flame retardant case per UL94V-O
- Other inductance values available upon request
- Fully RoHS & REACH Compliant



Electrical Specifications @ 25°C

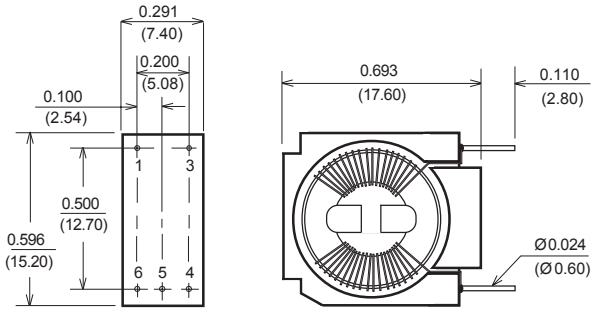
Rated Voltage: 250Vac
Rated current @ 50/60Hz and 40°C ambient
Operating Temperature: -40° to +85°C
Storage Temperature: -40° to +125°C
Climatic category: according to IEC68-1 40/85/56

RoHS REACH

CKV Series - Current Compensated Double Chokes for Power Lines

Part Number	L_N (µH) -30/+50%	I_N (mA)	L_L (µH)	R_{CU} (mOhms)	V_P (Vrms)	Windings per Core	Schematic
CKV-4.7-S	4700	700	70	440	1500	2	A or B
CKV-6.8-S	6800	600	100	630	1500	2	A or B
CKV-10-S	10000	500	150	1000	1500	2	A or B
CKV-15-S	15000	400	225	1350	1500	2	A or B
CKV-30-S	30000	300	400	2200	1500	2	A or B
CKV-47-S	47000	250	750	2400	1500	2	A or B

Dimensions



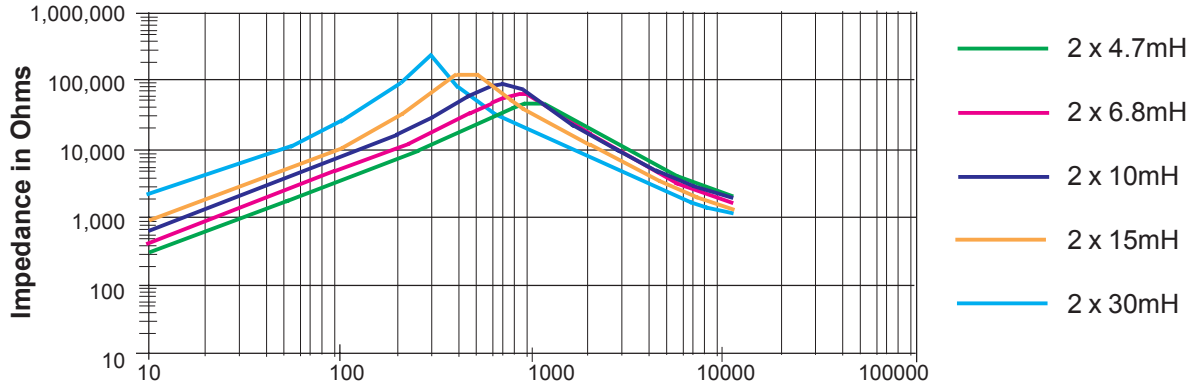
TALEMA IN
Part Nr.
Wk/Yr

Dimensions: Inches (Millimeters)
Tolerance: ±0.010 (0.25) unless specified otherwise

Schematic

Note: Normal pinning will be 1-3, 6-4 Schematic A
If pinning 1-3, 6-5 is required, Pls see Schematic B
Should be specified when ordering.

Impedance Performance - Sector Winding



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TVH Series • Common Mode EMI Inductors

TVH Series low cost toroidal inductors designed to attenuate conductor noise (EMI) in systems

Features

- SMD design ideal for pick and place compatibility
- Manufactured in ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Meets lead free reflow level J-STD-020C
- Fully RoHS & REACH Compliant

Electrical Specifications @25°C

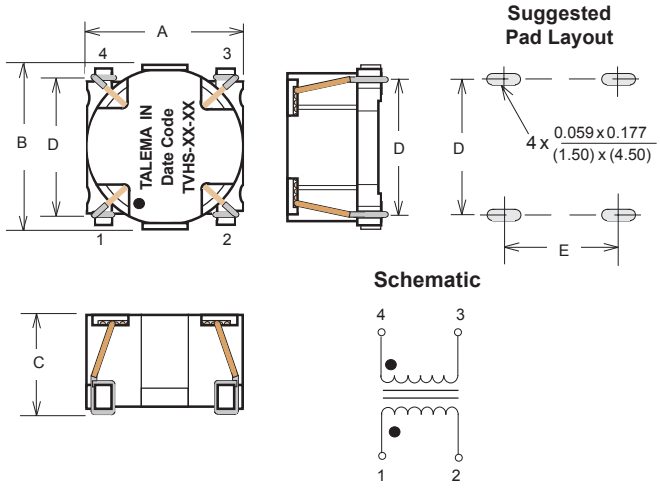
Test frequency: Inductance measured @10KHz / 10mV
Test voltage between windings: 1500Vrms
Operating temperature range: -40°C to +125°C
Climatic Category: IEC68-1 40/125/56

Part Number	Rated RMS Current (Amps)	L_N / L_o (mH ±30%)	DCR (mOhm max.)	SRF (MHz)	Vrms	Package Size	
						"S"	"T"
TVH_-3.6-102	3.60	1.0	50	4	1500	SC5	TC5
TVH_-1.5-102	1.50	1.0	60	2	1500	SC3	TC3
TVH_-2.5-302	2.50	3.0	80	2.2	1500	SC5	TC5
TVH_-1.0-103	1.00	10.0	450	0.5	1500	SC3	TC3
TVH_-0.5-223	0.50	22.0	850	0.3	1500	SC3	TC3

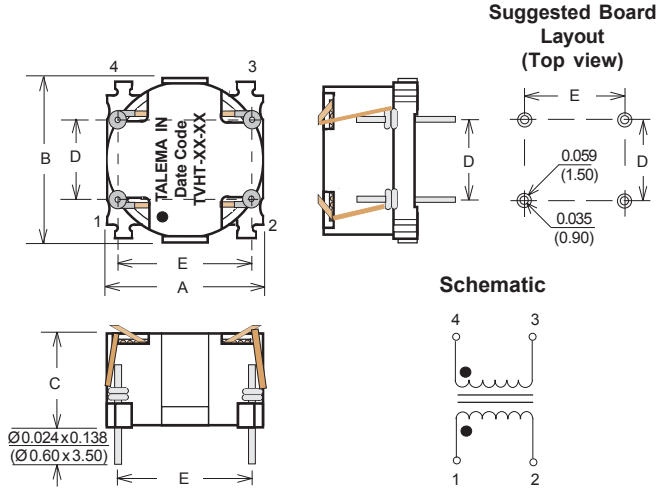
Note: When ordering, add "S" or "T" to the basic part number to denote preferred mounting style.
Example: TVHS-1.0-223 for SMD (or) TVHT-1.0-223 for through hole.

Dimensions

Type TVHS - Surface Mount



Type TVHT - Through Hole Mount



Mounting Style	Size Code	Dimensions - Inches ±0.010 (mm±0.25)				
		A	B	C	D	E
"S" SMD	SC3	0.551 (14.00)	0.630 (16.00)	0.350 max. (8.90 max.)	0.530 (13.46)	0.340 (8.64)
	SC5	0.662 (16.82)	0.760 (19.31)	0.390 max. (9.90 max.)	0.660 (16.76)	0.445 (11.30)
"T" TH	TC3	0.551 (14.00)	0.630 (16.00)	0.327 max. (8.30 max.)	0.500 (12.70)	0.400 (10.16)
	TC5	0.662 (16.82)	0.760 (19.31)	0.362 max. (9.20 max.)	0.500 (12.70)	0.500 (12.70)

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CMP Series • Common Mode Toroidal Chokes

Features

- Designed for DC/DC Converters
- Excellent Impedance characteristics with optimum size upto current ratio
- SMD design ideal for pick and place compatibility
- Manufactured in ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Meets lead free reflow level J-STD-020C
- Fully RoHS & REACH Compliant

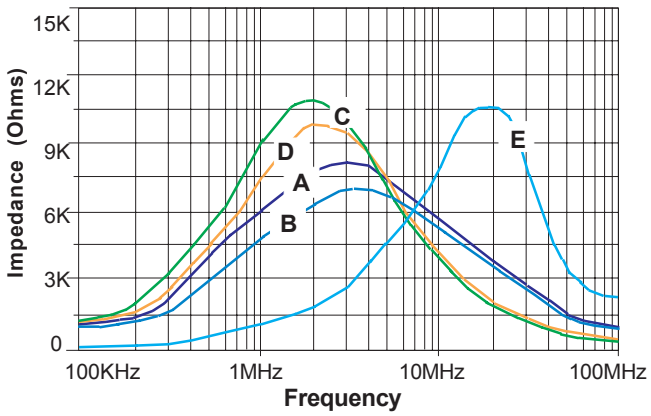
Electrical Specifications @25°C

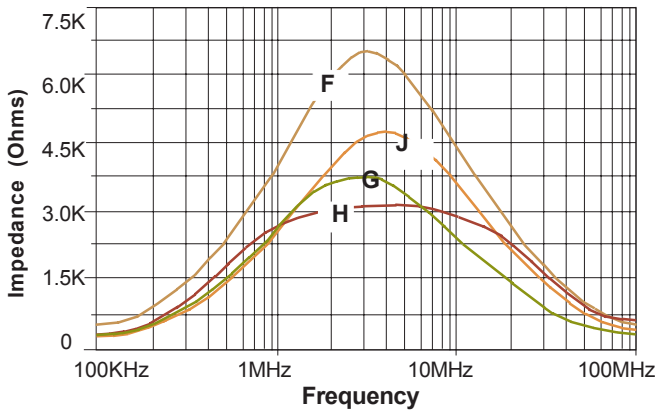
Test frequency: Inductance measured @100KHz / 20mV
Test voltage between windings: 1000Vrms
Operating temperature range: -40°C to +125°C
Climatic Category: IEC68-1 40/125/56

Part Number	Turns Ratio ±2%	Rated Current (I_{DC})	Inductance (mH) ±35%	Leakage Inductance (µH Nominal)	DCR Maximum (mOhm)	Schematic	Package Size Code		Impedance Curve	Weight (Grams)
							SMD	THT		
CMP__-1.22-1.17	1 : 1	1.22	1.170	8.296	200	A	SC2	TC2	A	1.1
CMP__-1.63-0.88	1 : 1	1.63	0.884	5.807	110	A	SC2	TC2	B	1.3
CMP__-2.80-1.47	1 : 1	2.80	1.470	9.630	80	A	SC5	TC5	C	4.0
CMP__-3.30-1.32	1 : 1	3.30	1.320	8.130	60	A	SC5	TC5	D	4.3
CMP__-3.30-0.23	1 : 1	3.30	0.225	8.175	60	A	SC5	TC5	E	4.4
CMP__-4.70-0.77	1 : 1	4.70	0.768	4.559	40	A	SC5	TC5	F	4.6
CMP__-5.60-0.59	1 : 1	5.60	0.590	3.891	28	A	SC5	TC5	J	5.0
CMPS-1.22-1.17P	1 : 1	1.22	1.170	8.296	200	B	SC2	--	A	1.1
CMPS-1.63-0.88P	1 : 1	1.63	0.884	5.807	110	B	SC2	--	B	1.3
CMPS-2.80-1.47P	1 : 1	2.80	1.470	9.630	80	B	SC5	--	C	4.0
CMPS-3.30-1.32P	1 : 1	3.30	1.320	8.130	60	B	SC5	--	D	4.3
CMPS-3.30-0.23P	1 : 1	3.30	0.225	8.175	60	B	SC5	--	E	4.4
CMPS-4.70-0.77P	1 : 1	4.70	0.768	4.559	40	B	SC5	--	F	4.6
CMPS-5.60-0.59P	1 : 1	5.60	0.590	3.891	20	B	SC5	--	J	5.0
CMP__-7.20-0.53	1 : 1	7.20	0.530	4.536	15	-	SHC6	THC6	H	7.3
CMPS-9.70-0.81	1 : 1	9.70	0.809	7.408	14	-	SHC7	--	F	13.0
CMPS-11.6-0.63	1 : 1	11.6	0.630	5.482	10	-	SHC7	--	J	14.0
CMPS-14.0-0.47	1 : 1	14.0	0.473	4.531	8	-	SHC7	--	G	14.0

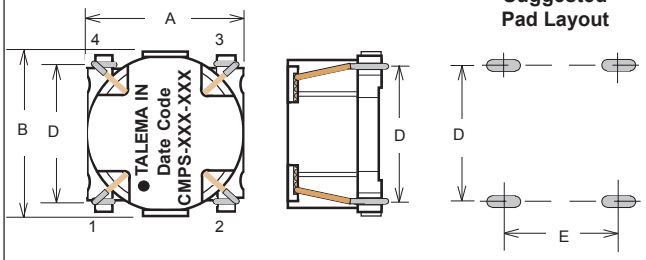
Note: When ordering, add "S" or "T" to the basic part number to denote preferred mounting style.
Example: CMPS-1.22-1.17 for SMD (or) CMPT-1.22-1.17 for through hole.

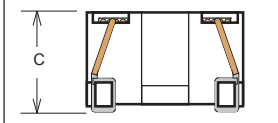
IMPEDENCE CURVES





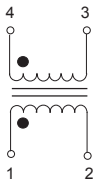
SC2 & SC5



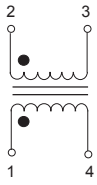


Surface Coplanarity will be <0.005(0.13)

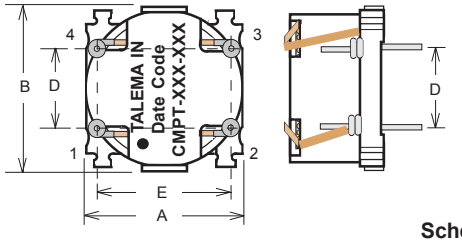
Schematic - A

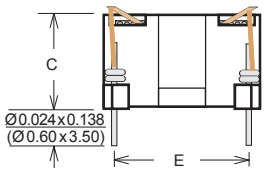


Schematic - B

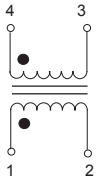


TC2, TC5 & THC6

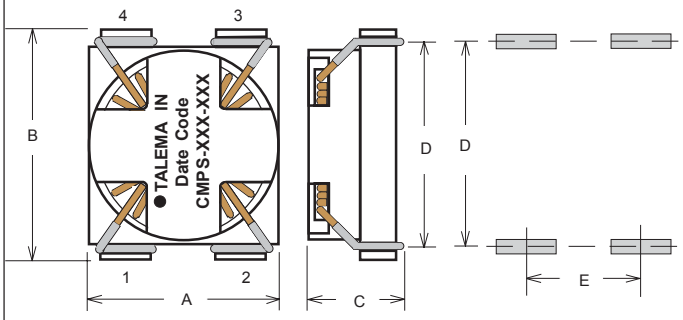


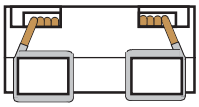


Schematic

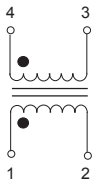


SHC6

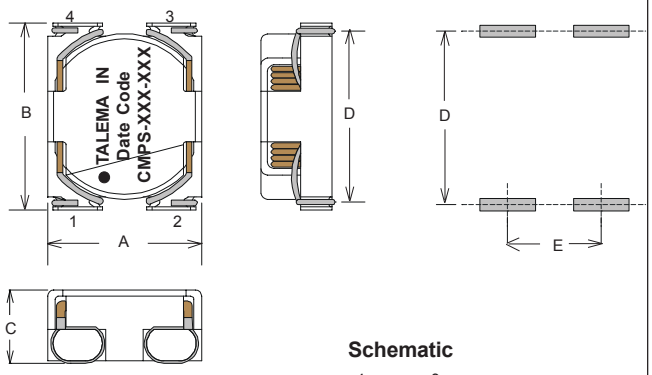




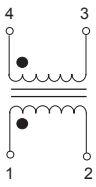
Schematic



SHC7



Schematic



Mounting Style	Size Code	Dimension Tolerance - Inches ±0.010 (mm ±0.25)						
		A	B	C	D	E	Pad Length	Pad Width
SMD	SC2	0.472 (12.00)	0.472 (12.00)	0.213 (5.40)	0.410 (10.40)	0.330 (8.38)	4 x 0.175(4.45)	4 x 0.060 (1.52)
	SC5	0.662 (16.82)	0.760 (19.31)	0.390 (9.91)	0.660 (16.76)	0.445 (11.30)	4 x 0.175(4.45)	4 x 0.060 (1.52)
	SHC6	1.000 (25.40)	1.104 (28.05)	0.394 (10.00)	1.010 (25.65)	0.620 (15.75)	4 x 0.300(7.62)	4 x 0.080 (2.03)
	SHC7	1.000 (25.40)	1.220 (30.99)	0.500 (12.70)	1.100 (27.94)	0.600 (15.24)	4 x 0.400(10.16)	4 x 0.155 (3.94)
THT	TC2	0.472 (12.00)	0.472 (12.00)	0.198 (5.02)	0.400 (10.16)	0.350 (8.89)	NA	NA
	TC5	0.662 (16.82)	0.760 (19.31)	0.362 (9.20)	0.500 (12.70)	0.500 (12.70)	NA	NA
	THC6	1.000 (25.40)	1.104 (28.05)	0.358 (9.08)	1.000 (25.40)	0.600 (15.24)	NA	NA

talema group

LCP Series • Miniature Low Cost Toroidal Inductors

LCP Series surface mount toroidal inductors are designed for use in applications where energy storage is required for maintenance of a highly stable inductance when a rapid change in load current occurs. These inductors are excellent for filtering high frequency signals while supporting a substantial DC current as well as for AC ripple, switch mode power supplies and for use with DC-DC Converters.

Features

- Ideal as 1:1 Coupled Inductor
- Series/Parallel connection for Storage Choke applications
- May be used as Isolation Transformer
- Low loss core suitable for use upto 1MHz
- Highly stable inductance with varying loads
- Capable of substantial DC current an AC ripple
- Manufactured in ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Fully RoHS & REACH Compliant & Meets lead free reflow level J-STD-020C

Electrical Specifications @25°C

Test frequency: Inductance measured @10KHz / 10mV
Test voltage between windings: 500Vrms
Operating temperature range: -40°C to +125°C
Climatic Category: IEC68-1 40/125/56

Applications

DC-DC Converters • Common Mode Filter • Computer Note Books • Pulse Modulation Switching Regulators: Step-up, Step-down, Inverting or dual output • Filtering • Battery Powered Equipment

Part Number	Parallel Connected			Series Connected			Energy Storage (µJ) *	Dimensions Inches(Millimeters)				
	Full Load Current (A_{DC})	L_0 (µH) ±15% No Load	DCR mOhm	Full Load Current (A_{DC})	L_0 (µH) ±15% No Load	DCR mOhm (Nom)		A	B	C	D	H
LCP1-3.00-2.2	3.00	2.2	9	1.50	8.8	36	7.0					
LCP1-2.10-4.7	2.10	4.7	16	1.05	18.8	64	7.2					
LCP1-1.40-10	1.40	10	37	0.70	40	148	7.2					
LCP1-1.10-15	1.10	15	58	0.55	60	232	7.0					
LCP1-0.92-22	0.92	22	86	0.46	88	344	7.1					
LCP1-0.76-33	0.76	33	133	0.38	132	532	7.2	0.276 (7.0)	0.276 (7.0)	0.236 (6.0)	0.059 (1.5)	0.201 (5.1)
LCP1-0.64-47	0.64	47	205	0.32	188	820	7.1					
LCP1-0.54-68	0.54	68	307	0.27	272	1228	7.2					
LCP1-0.44-100	0.44	100	376	0.22	400	1504	7.2					
LCP1-0.36-150	0.36	150	719	0.18	600	2876	7.2					
LCP1-0.30-220	0.30	220	866	0.15	880	3464	7.3					
LCP2-4.40-2.2	4.40	2.2	7	2.20	8.8	28	16.4					
LCP2-3.10-4.7	3.10	4.7	13	1.55	18.8	52	16.0					
LCP2-2.08-10	2.08	10	28	1.04	40	112	16.4					
LCP2-1.68-15	1.68	15	52	0.84	60	208	16.0					
LCP2-1.40-22	1.40	22	70	0.70	88	280	16.2					
LCP2-1.32-33	1.32	33	83	0.66	132	332	16.0					
LCP2-1.08-47	1.08	47	139	0.54	188	556	21.2	0.354 (9.0)	0.354 (9.0)	0.299 (7.6)	0.067 (1.7)	0.248 (6.3)
LCP2-0.80-68	0.80	68	241	0.40	272	964	20.2					
LCP2-0.66-100	0.66	100	295	0.33	400	1180	15.8					
LCP2-0.54-150	0.54	150	521	0.27	600	2084	16.1					
LCP2-0.44-220	0.44	220	784	0.22	880	3136	15.8					
LCP2-0.36-330	0.36	330	960	0.18	1320	3840	15.8C					
LCP3-6.64-2.2	6.64	2.2	5	3.32	8.8	20	31.7					
LCP3-4.46-4.7	4.46	4.7	12	2.23	18.8	48	32.2					
LCP3-3.00-10	3.00	10	26	1.5	40	104	32.8					
LCP3-2.42-15	2.42	15	37	1.21	60	148	31.8					
LCP3-2.00-22	2.00	22	55	1.00	88	220	32.7					
LCP3-1.62-33	1.62	33	84	0.81	132	336	32.1					
LCP3-1.34-47	1.34	47	127	0.67	188	508	32.3	0.433 (11.0)	0.433 (11.0)	0.370 (9.4)	0079 (2.0)	0.268 (6.8)
LCP3-1.12-68	1.12	68	188	0.56	272	752	32.4					
LCP3-0.94-100	0.94	100	250	0.47	400	1000	32.2					
LCP3-0.76-150	0.76	150	346	0.38	600	1384	31.8					
LCP3-0.62-220	0.62	220	478	0.31	880	1912	31.2					
LCP3-0.50-330	0.50	330	671	0.25	1320	2684	30.4					
LCP3-0.42-470	0.42	470	1003	0.21	1880	4012	30.5					
LCP3-0.36-680	0.36	680	1500	0.18	2720	6000	32.3					

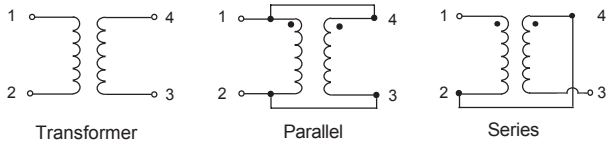
Part Number	Parallel Connected			Series Connected			Energy Storage (µJ) *	Dimensions Inches(Millimeters)				
	Full Load Current (A_{DC})	L_O (µH) ±15% No Load	DCR mOhm	Full Load Current (A_{DC})	L_O (µH) ±15% No Load	DCR mOhm (Nom)		A	B	C	D	H
LCP4-7.40-2.2	7.40	2.2	5	3.70	8.8	20	42.5	0.472 (12.0)	0.472 (12.0)	0.402 (10.2)	0.082 (2.2)	0.276 (7.0)
LCP4-4.80-4.7	4.80	4.7	9	2.40	18.8	36	43.2					
LCP4-3.36-10	3.36	10	21	1.68	40	84	43.2					
LCP4-2.80-15	2.80	15	35	1.40	60	140	43.2					
LCP4-2.30-22	2.30	22	50	1.15	88	200	43.6					
LCP4-1.86-33	1.86	33	76	0.93	132	304	43.9					
LCP4-1.56-47	1.56	47	112	0.78	188	448	43.1					
LCP4-1.32-68	1.32	68	167	0.66	272	668	43.4					
LCP4-1.06-100	1.08	100	250	0.54	400	1000	42.9					
LCP4-0.88-150	0.88	150	307	0.44	600	1228	42.8					
LCP4-0.72-220	0.72	220	470	0.36	880	1880	42.0					
LCP4-0.60-330	0.60	330	657	0.30	1320	2628	44.0					
LCP4-0.50-470	0.50	470	900	0.25	1880	3600	43.6					
LCP4-0.40-680	0.40	680	1355	0.20	2720	5420	40.2					
LCP4-0.34-1000	0.34	1000	2042	0.17	4000	8168	42.5					
LCP5-6.40-4.7	6.40	4.7	7	3.20	18.8	28	73.9	0.472 (12.0)	0.472 (12.0)	0.402 (10.2)	0.082 (2.2)	0.358 (9.1)
LCP5-4.50-10	4.50	10	16	2.25	40	64	71.6					
LCP5-3.50-15	3.50	15	28	1.75	60	112	71.6					
LCP5-3.00-22	3.00	22	38	1.50	88	152	71.6					
LCP5-2.44-33	2.44	33	52	1.22	132	208	72.6					
LCP5-2.04-47	2.04	47	72	1.02	188	288	72.1					
LCP5-1.70-68	1.70	68	86	0.85	272	344	71.3					
LCP5-1.40-100	1.40	100	128	0.70	400	512	71.6					
LCP5-1.16-150	1.16	150	218	0.58	600	872	73.4					
LCP5-0.94-220	0.94	220	298	0.47	880	1192	71.5					
LCP5-0.78-330	0.78	330	451	0.39	1320	1804	73.8					
LCP5-0.64-470	0.64	470	604	0.32	1880	2416	70.9					
LCP5-0.54-680	0.54	680	934	0.27	2720	3736	73.2					
LCP5-0.44-1000	0.44	1000	1629	0.22	4000	6516	71.4					
LCP5-0.36-1500	0.36	1500	2483	0.18	6000	9932	71.6					
LCP5-0.30-2200	0.30	2200	3773	0.15	8800	15092	72.9					

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

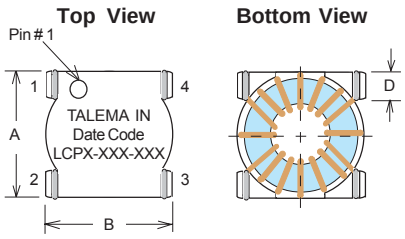
Notes:

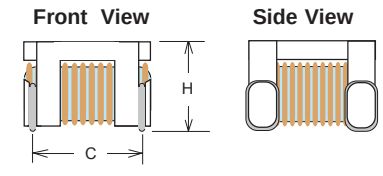
1. L(µH): Inductance is tested @10KHz / 10mV
2. The µJoule rating (½LI²) is the ability of the inductor to store energy.

Schematics



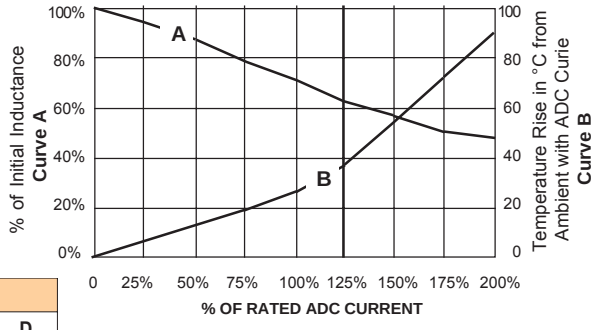
Dimensions





Dimensions: Inches (Millimeters)
Tolerance: ±0.010 (0.25)
unless specified otherwise
Surface Coplanarity will be <0.006(0.15)

Pad Dimensions				
Type	A	B	C	D
LCP-1	8.0	7.0	2.5	2.5
LCP-2	10.0	9.0	3.0	3.0
LCP-3	12.0	11.0	3.0	3.0
LCP-4 & 5	13.0	12.0	3.5	3.5



talema group

LC Series • Miniature Low Cost Toroidal Inductors

LC Series surface mount toroidal inductors are designed for use in applications where energy storage is required for maintenance of a highly stable inductance when a rapid change in load current occurs. These inductors are excellent for filtering high frequency signals while supporting a substantial DC current as well as for AC ripple, switch mode power supplies and for use with DC-DC Converters.

Features

- Operating frequency upto 1MHz
- High energy storage with minimum saturation
- High stability from no load to full load
- Pick and place compatible
- Designed as 1:1 Coupled Inductor (Series or Parallel) or as 1:1 Isolation Transformer
- Manufactured in an ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Meets lead free reflow level J-STD-020C
- Fully RoHS & REACH Compliant

RoHS REACH

Electrical Specifications @25°C

Test frequency: Inductance measured @10KHz / 10mV
Test Voltage between windings: 500Vrms
Operating Temperature: -40°C to +125°C
Climatic category: IEC68-1 40/125/56

Applications

DC-DC Converters • Common Mode Filter • Computer Note Books • Pulse Modulation Switching Regulators: Step-up, Step-down, Inverting or dual output • Filtering • Battery Powered Equipment

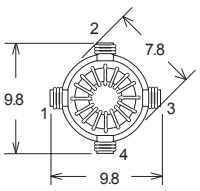
Part Number	Parallel Connected			Series Connected			Energy Storage (µJ) [2]
	Full Load Current (A_{DC})	L_O (µH) ±15% No Load	DCR mOhm	Full Load Current (A_{DC})	L_O (µH) ±15% No Load	DCR mOhm	
LC1-3.00-2.2	3.00	2.2	9	1.50	8.8	36	7.0
LC1-2.10-4.7	2.10	4.7	16	1.05	18.8	64	7.2
LC1-1.40-10	1.40	10	37	0.70	40	148	7.2
LC1 1.10-15	1.10	15	58	0.55	60	232	7.0
LC1-0.92-22	0.92	22	86	0.46	88	344	7.1
LC1-0.76-33	0.76	33	133	0.38	132	532	7.2
LC1-0.64-47	0.64	47	205	0.32	188	820	7.1
LC1-0.54-68	0.54	68	307	0.27	272	1228	7.2
LC1-0.44-100	0.44	100	376	0.22	400	1504	7.2
LC1-0.36-150	0.36	150	719	0.18	600	2876	7.2
LC1-0.30-220	0.30	220	866	0.15	880	3464	7.3

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

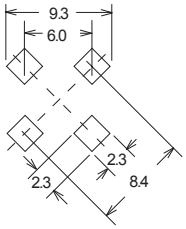
Note: The µJoule rating (½LI²) is the ability of the inductor to store energy.

Dimensions

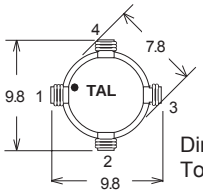
Bottom View



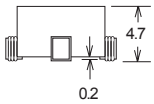
Suggested Pad Layout



Top View

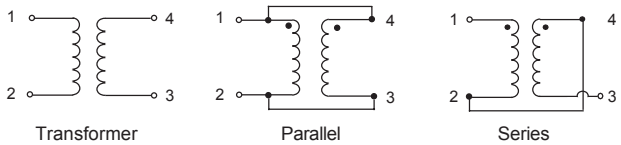


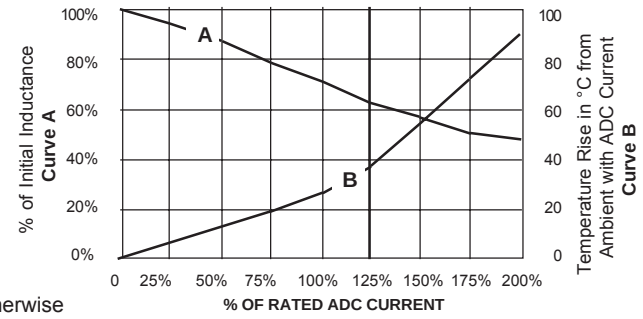
Front View



Dimensions: Inches (Millimeters)
Tolerance: ±0.010 (0.25) unless specified otherwise

Schematic





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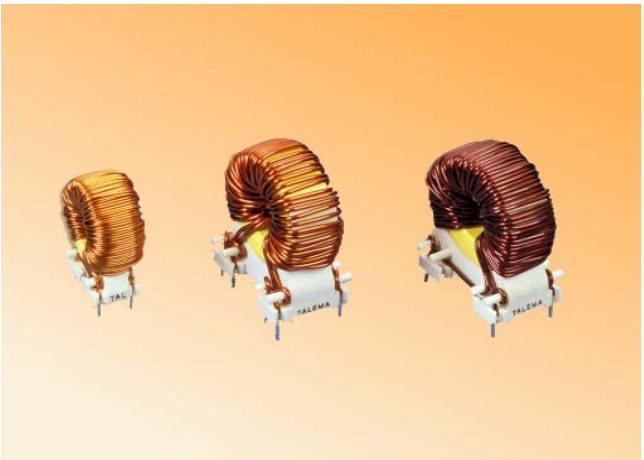
DJ Series • Low Cost Linear Storage Chokes

DJ Series Storage Chokes offer high storage capacity in a compact, low cost design. Used primarily in switched-mode power supplies where low losses are essential at high pulse frequencies.



Features

- High storage capacity (to 5000µJoules) in compact size
- Low losses at high pulse frequencies
- Operating frequency to 100KHz
- Low leakage
- Small mounting area due to vertical design
- Competitive pricing due to high volume production
- Manufactured in an ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Fully RoHS & REACH Compliant

Electrical Specifications @25°C

Test frequency: Inductance measured @10KHz / 0.10Vrms
Test voltage between windings: 500Vrms
Operating temperature: -40°C to +125°C
Climatic category: IEC68-1 40/125/56

Part Number	Connection	I_{DC} Amps	L(µH) Typ. @ rated current	L_O (µH) ±15% no load	DCR (mOhm) Max.	Min. Energy Storage (µ Joule)	Wire Ø mm	Schematic	Weight per Piece
DJ-500	Series	1.5	372	600	212	419	0.56	1	18
	Parallel	3.0	93	150	53	419	0.56	1	18
DJ-501	Series	2.0	228	368	132	456	0.63	1	18
	Parallel	4.0	57	92	33	456	0.63	1	18
DJ-502	Series	2.5	140	224	80	431	0.71	1	18
	Parallel	5.0	35	56	20	431	0.71	1	18
DJ-503	Series	3.0	100	164	52	456	0.80	1	18
	Parallel	6.0	25	41	13	456	0.80	1	18
DJ-504	Series	4.6	44	72	24	477	1.00	1	19
	Parallel	9.2	11	18	6	477	1.00	1	19
DJ-1500	Series	2.0	752	1,428	180	1,501	0.80	1	56
	Parallel	4.0	188	357	45	1,501	0.80	1	56
DJ1501	Series	2.5	468	892	124	1,465	0.85	1	54
	Parallel	5.0	117	223	31	1,465	0.85	1	54
DJ-1502	Series	3.0	328	624	76	1,477	1.00	1	57
	Parallel	6.0	82	156	19	1,477	1.00	1	57
DJ-1503	Series	4.0	188	356	44	1,501	1.12	1	56
	Parallel	8.0	47	89	11	1,501	1.12	1	56
DJ-1504	Series	6.0	80	148	20	1,406	1.00	2	56
	Parallel	12.0	20	37	5	1,406	1.00	2	56
DJ-1505	Series	7.5	48	96	12	1,406	1.12	2	56
	Parallel	15.0	12	24	3	1,406	1.12	2	56
DJ-2500	Series	2.8	628	1,292	176	2,458	0.80	1	63
	Parallel	5.6	157	323	44	2,458	0.80	1	63
DJ-2501	Series	3.5	404	832	112	2,482	0.90	1	63
	Parallel	7.0	101	208	28	2,482	0.90	1	63
DJ-2502	Series	4.5	248	508	72	2,499	1.0	1	63
	Parallel	9.0	62	127	18	2,499	1.00	1	63
DJ-2503	Series	6.0	140	284	40	2,499	1.12	1	63
	Parallel	12.0	35	71	10	2,499	1.12	1	63
DJ-2504	Series	8.5	68	144	20	2,517	1.00	2	63
	Parallel	17.0	17	36	5	2,517	1.00	2	63
DJ-2505	Series	10.5	48	96	12	2,604	1.12	2	64
	Parallel	21.0	12	24	3	2,604	1.12	2	64

Notes: The µJoule rating $(½LI)^2$ is the ability of the inductor to store energy.

DJA Series • High Capacity Linear Storage Chokes

Storage capacity ½ LI²≃ 3500 & 5000 µWs (µ Joule)

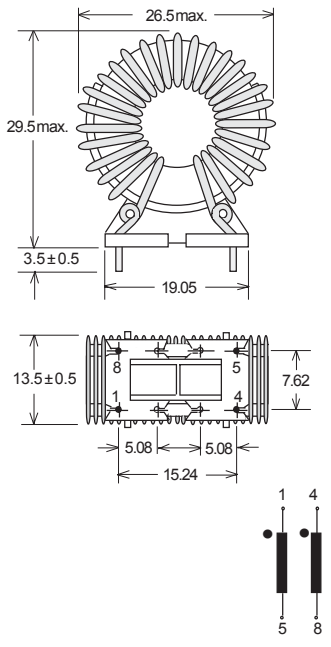
The DJA Series utilizes Fe-based amorphous alloy cores which provide high flux density and low core loss. These storage chokes allow you to optimize your designs by giving a highly stable inductance over a wide DC bias current range at operating frequencies to 500KHz.

Part Number	Connection	I_{DC} Amps	L (µH) Typ. @ rated current	L_O (µH) ±15% no load	DCR (mOhm) Max.	Min. Energy Storage (µ Joule)	Wire Ø mm	Schematic	Weight per Piece
DJA-3500	Series	3.3	624	780	128	3,392	0.80	1	33
	Parallel	6.6	156	195	32	3,392	0.80	1	33
DJA-3501	Series	4.0	420	524	92	3,355	0.85	1	33
	Parallel	8.0	105	131	23	3,355	0.85	1	33
DJA-3502	Series	5.3	236	296	48	3,314	1.00	1	33
	Parallel	10.6	59	74	12	3,314	1.00	1	33
DJA-3503	Series	6.7	148	184	32	3,319	1.12	1	33
	Parallel	13.4	37	46	8	3,319	1.12	1	33
DJA-3504	Series	9.8	68	88	16	3,324	0.95	2	33
	Parallel	19.6	17	22	4	3,324	0.95	2	33
DJA-3505	Series	11.6	50	62	12	3,335	1.06	2	33
	Parallel	23.2	12.5	15.5	3	3,335	1.06	2	33
DJA-5000	Series	4.0	636	792	124	5,079	0.85	1	44
	Parallel	8.0	159	198	31	5,079	0.85	1	44
DJA-5001	Series	5.0	408	508	80	5,079	0.95	1	44
	Parallel	10.0	102	127	20	5,079	0.95	1	44
DJA-5002	Series	6.4	248	312	44	5,079	1.12	1	44
	Parallel	12.8	62	78	11	5,079	1.12	1	44
DJA-5003	Series	8.4	144	180	26	5,054	0.90	2	44
	Parallel	16.8	36	45	6.5	5,054	0.90	2	44
DJA-5004	Series	12.3	68	84	12	5,073	1.06	2	44
	Parallel	24.6	17	21	3	5,073	1.06	2	44
DJA-5005	Series	14.5	48	60	10	5,047	1.12	2	44
	Parallel	29.0	12	15	2.5	5,047	1.12	2	44

Dimensions

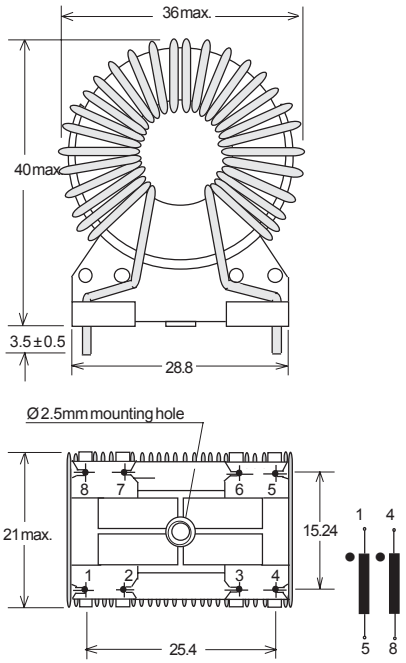
500 µWs

Schematic 1

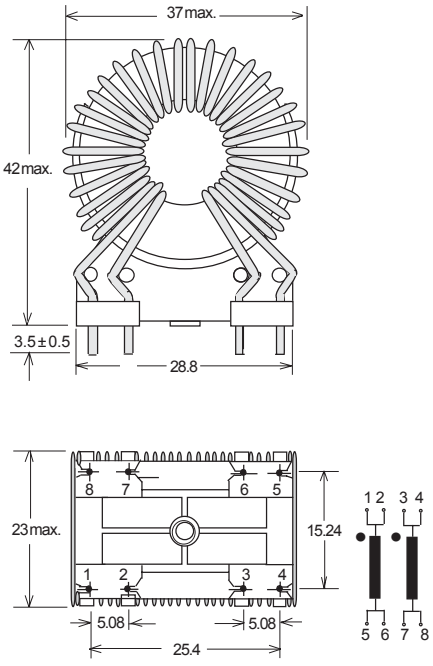


1500, 2500, 3500 & 5000 µWs

Schematic 1



Schematic 2



Dimensional Tolerance - Inches ± 0.010 (mm ±0.25)
Pin Pitch Tolerance: Inches ± 0.008 (mm ± 0.20mm)

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DP Series • Low Cost Power Inductors

DP Series Power Inductors provide an excellent, low cost alternative to conventional chokes or inductors. Used in EMI filtering and energy storage, these compact, low radiation inductors are extremely effective in controlling AC output ripple of Switch Mode Power Supplies.

Features

- Broad range of inductance values and current ratings
- Low cost, no radiation design
- Hot Solder, pre-tinned leads for easy PC board mounting
- Operating frequency upto 100KHz
- Competitive pricing due to high volume production
- Manufactured in ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Fully RoHS & REACH Compliant

Electrical Specifications @25°C

Test frequency: Inductance measured @10KHz / 0.10Vrms
Operating temperature: -40°C to +125°C
Climatic category: IEC68-1 40/125/56

Applications

- Switching Power Supplies
- EMI / RFI filtering
- Output Chokes

RoHS REACH

Part Number	I_{DC} Amps	L(µH) Typ. @ Rated Current	L_O (µH) ±15% No Load	DCR (Ohms Max.)	Min. Energy Storage (µJ)*	Wire Ø (mm)	Coil Size mm OD x Ht.	Mounting Style Availability / Size			
								C	B	V	F
DP__-0.5-47	0.5	47	50	0.095	5.9	0.400	14 x 8	2	3	2	2
DP__-0.5-68		68	73	0.115	8.5	0.400	14 x 8	2	3	2	2
DP__-0.5-100		100	109	0.140	12.5	0.400	14 x 8	2	3	2	2
DP__-0.5-150		150	167	0.173	18.8	0.400	15 x 8	2	3	2	2
DP__-0.5-220		220	258	0.215	27.5	0.400	15 x 9	2	3	2	2
DP__-0.5-330		330	393	0.265	41.3	0.400	15 x 9	2	3	2	2
DP__-0.5-470		470	557	0.322	58.8	0.400	20 x 9	3	3	3	3
DP__-0.5-680		680	849	0.398	85	0.400	20 x 10	3	3	3	3
DP__-0.5-1000		1,000	1,358	0.503	125	0.400	21 x 11	3	5	4	3
DP__-0.5-1500		1,500	1,863	0.714	188	0.400	25 x 12	5	5	4	4
DP__-0.5-2200		2,200	3,131	0.926	275	0.400	25 x 12	5	5	4	4
DP__-0.5-3300		3,300	5,024	1.173	413	0.400	26 x 13	5	5	5	6
DP__-0.5-4700		4,700	6,287	1.421	588	0.400	32 x 15	5	8	5	6
DP__--1.0-22	1.0	22	23	0.041	11	0.500	14 x 8	2	3	2	2
DP__--1.0-33		33	37	0.052	16.5	0.500	14 x 8	2	3	2	2
DP__-1.0-47		47	53	0.063	23.5	0.500	14 x 8	2	3	2	2
DP__-1.0-68		68	80	0.077	34	0.500	14 x 8	2	3	2	2
DP__-1.0-100		100	127	0.097	50	0.500	15 x 8	2	3	2	2
DP__-1.0-150		150	207	0.123	75	0.500	15 x 9	2	3	3	2
DP__-1.0-220		220	345	0.196	110	0.450	15 x 9	2	3	3	2
DP__-1.0-330		330	491	0.193	165	0.500	20 x 9	3	3	3	3
DP__-1.0-470		470	601	0.180	235	0.600	27 x 12	5	5	5	6
DP__-1.0-680		680	891	0.220	340	0.600	27 x 13	5	5	5	6
DP__-1.0-1000		1,000	1,619	0.426	500	0.500	26 x 13	4	5	5	6
DP__-1.0-1500		1,500	2,149	0.532	750	0.500	30 x 14	5	5	5	6
DP__-1.0-2200		2,200	3,609	0.689	1100	0.500	31 x 15	5	5	6	6
DP__-1.0-3300		3,300	4,731	0.609	1650	0.600	43 x 15	--	8	--	--

Note: The µJoule rating (0.5 x LI²) is the ability of the inductor to store energy.

Electrical Specifications @25 °C

Part Number	I_{DC} Amps	L (µH) Typ. @ Rated Current	L_O (µH) ±15% No Load	DCR (Ohms Max.)	Min Energy Storage (µJ)*	Wire Ø (mm)	Coil Size mm O.D. x Ht.	Mounting Style Availability / Size			
								C	B	V	F
DP__-2.0-22	2.0	22	27	0.070	44	0.400	14 x 8	2	3	2	2
DP__-2.0-33		33	45	0.089	66	0.400	14 x 8	2	3	2	2
DP__-2.0-47		47	73	0.090	94	0.450	15 x 8	2	3	2	2
DP__-2.0-68		68	109	0.089	136	0.500	15 x 8	2	3	2	2
DP__-2.0-100		100	157	0.109	200	0.500	19 x 8	3	3	3	3
DP__-2.0-150		150	207	0.106	300	0.600	25 x 12	4	5	4	4
DP__-2.0-220		220	328	0.153	440	0.560	25 x 11	4	5	4	4
DP__-2.0-330		330	575	0.202	660	0.560	26 x 12	4	5	4	4
DP__-2.0-470		470	720	0.214	940	0.600	30 x 14	5	5	5	6
DP__-2.0-680		680	1,251	0.282	1,360	0.600	30 x 14	5	5	5	6
DP__-2.0-1000		1000	1,429	0.335	2,000	0.600	42 x 14	--	5	9	--
DP__-2.0-1500		1500	2,488	0.441	3,000	0.600	42 x 15	--	8	9	--
DP__-2.0-2200		2200	3,218	0.405	4,400	0.710	51 x 22	--	10	--	--
DP__-3.0-15	3.0	15	21	0.039	68	0.500	14 x 8	2	3	2	2
DP__-3.0-22		22	34	0.050	99	0.500	14 x 8	2	3	2	2
DP__-3.0-33		33	49	0.038	149	0.630	19 x 8	3	3	3	3
DP__-3.0-47		47	75	0.048	212	0.630	20 x 8	3	3	3	3
DP__-3.0-68		68	92	0.060	306	0.630	25 x 12	4	5	4	4
DP__-3.0-100		100	157	0.080	458	0.630	25 x 12	4	5	4	4
DP__-3.0-150		150	256	0.107	675	0.630	25 x 12	4	5	4	4
DP__-3.0-220		220	346	0.134	990	0.630	29 x 13	5	5	5	6
DP__-3.0-330		330	625	0.142	1,485	0.710	30 x 14	5	5	5	6
DP__-3.0-470		470	727	0.187	2,115	0.670	42 x 14	--	5	9	--
DP__-3.0-680		680	1,124	0.302	3,060	.0630	42 x 16	--	8	--	--
DP__-3.0-1000		1000	1,493	0.304	4,500	0.670	49 x 20	--	10	--	--
DP__-3.0-1500		1500	2,324	0.384	6,750	0.670	53 x 24	--	11	--	--
DP__-3.0-2200		2200	4,090	0.509	9,900	0.670	54 x 26	--	11	--	--
DP__-5.0-15	5.0	15	23	0.029	188	0.600	20 x 8	3	3	3	3
DP__-5.0-22		22	28	0.039	275	0.600	25 x 12	4	5	4	4
DP__-5.0-33		33	48	0.036	413	0.710	25 x 12	4	5	4	4
DP__-5.0-47		47	82	0.043	588	0.750	25 x 12	4	5	4	4
DP__-5.0-68		68	137	0.055	850	0.750	26 x 12	4	5	4	4
DP__-5.0-100		100	172	0.059	1,250	0.800	30 x 13	5	5	5	6
DP__-5.0-150		150	221	0.094	1,875	0.710	41 x 13	--	5	9	--
DP__-5.0-220		220	381	0.097	2,750	0.800	41 x 13	--	5	9	--
DP__-5.0-330		330	475	0.156	4,125	0.710	49 x 20	--	10	--	--
DP__-5.0-470		470	852	0.187	5,875	0.750	49 x 20	--	10	--	--
DP__-5.0-680		680	1,186	0.196	8,500	0.800	53 x 25	--	11	--	--
DP__-5.0-1000		1000	2,093	0.206	12,500	0.900	55 x 26	--	11	--	--
DP__-7.5-15	7.5	15	18	0.022	422	0.750	30 x 14	5	5	5	6
DP__-7.5-22		22	30	0.025	619	0.800	30 x 14	5	5	5	6
DP__-7.5-33		33	49	0.025	928	0.900	30 x 14	5	5	5	6
DP__-7.5-47		47	84	0.026	1,322	1.000	31x 14	5	5	5	6
DP__-7.5-68		68	105	0.040	1,913	0.900	42 x 14	--	5	9	--
DP__-7.5-100		100	160	0.045	2,813	1.000	43 x 17	--	8	--	--
DP__-7.5-150		150	219	0.074	4,219	0.850	50 x 21	--	10	--	--
DP__-7.5-220		220	373	0.070	6,188	1.000	51 x 22	--	10	--	--
DP__-7.5-330		330	605	0.090	9,281	1.000	54 x 25	--	11	--	--
DP__-7.5-470		470	1,054	0.085	13,219	1.180	55 x 28	--	11	--	--

Electrical Specifications @25°C

Part Number	I_{DC} Amps	L (µH) Typ. @ Rated Current	L_O (µH) ±15% No Load	DCR (Ohms Max.)	Min. Energy Storage (µJ)*	Wire Ø mm	Coil size mm O.D. x Ht.	Mounting Style Availability / Size			
								C	B	V	F
DP__-10-15	10	15	21	0.013	750	1.000	30 x 14	5	5	5	6
DP__-10-22		22	28	0.021	1,100	0.900	41 x 14	--	5	9	--
DP__-10-33		33	46	0.022	1,650	1.000	42 x 14	--	5	9	--
DP__-10-47		47	75	0.028	2,350	1.000	42 x 14	--	5	9	--
DP__-10-68		68	89	0.042	3,400	0.900	50 x 21	--	10	--	--
DP__-10-100		100	152	0.044	5,000	1.000	50 x 21	--	10	--	--
DP__-10-150		150	248	0.041	7,500	1.180	55 x 26	--	11	--	--
DP__-10-220		220	427	0.054	11,000	1.180	55 x 26	--	11	--	--
DP__-15-6.8	15	6.8	8	0.009	765	1.000	41 x 14	--	5	9	--
DP__-15-10		10	14	0.012	1,125	1.000	41 x 14	--	5	9	--
DP__-15-15		15	22	0.011	1,688	1.180	41 x 14	--	5	9	--
DP__-15-22		22	36	0.014	2,475	1.250	44 x 18	--	8	--	--
DP__-15-33		33	49	0.018	3,713	1.180	50 x 21	--	10	--	--
DP__-15-47		47	75	0.016	5,288	1.400	51 x 22	--	11	--	--
DP__-15-68		68	123	0.018	7,650	1.500	52 x 23	--	11	--	--
DP__-15-100		100	207	0.023	11,250	1.500	56 x 27	--	11	--	--

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

Notes:

1) The µJoule rating (0.5 x LI²) is the ability of the inductor to store energy.
2) Inductance measured @10KHz / 0.10Vrms without DC Current, @10KHz / 0.25Vrms with DC Current.

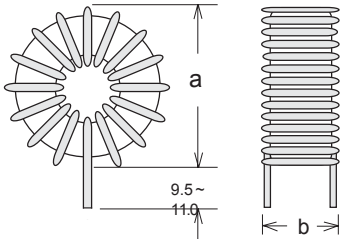
Ordering Key

DP O - 0.5 - 470 µH

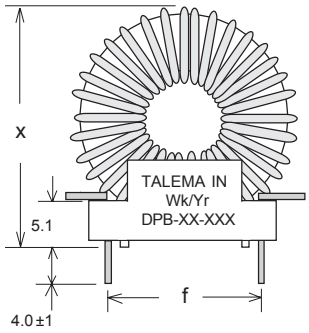
- 470 µH — Inductance Value in µH
- 0.5 — Current Rating (Amps)
- O — Mounting Style - Specify the appropriate suffix.
  - O = Open Mount
  - C = Clip Mount
  - B = Base Mount
  - V = Vertical Encapsulated
  - F = Flat Encapsulated
- DP — Basic Series Designation

Base Mount

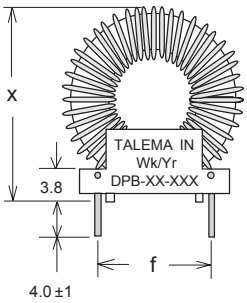
Type O - Open Mount



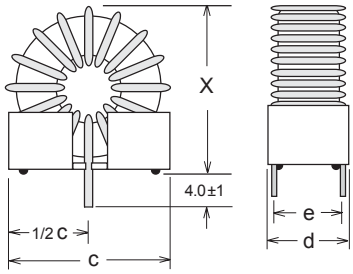
Type B- I

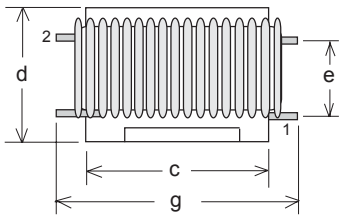


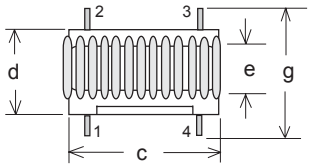
Type B-II



Type C - Clip Mount

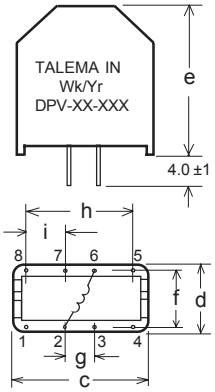




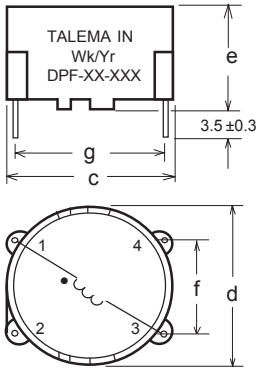


Schematic

Type V - Vertical Mount



Type F - Flat Mount

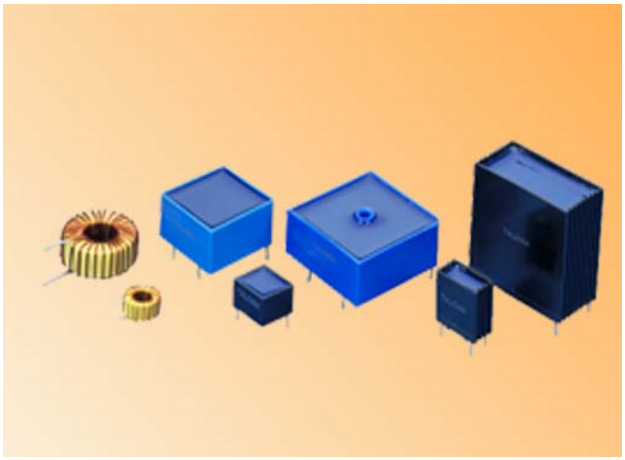


Mounting Style	Size Code	Dimensional Tolerance - Inches ±0.010 (mm ±0.25)								
		c	d	e	f	g	h	i	x	Pin Ø
"C" Clip Mount	2	16.5	11.4	7.6	--	--	--	--	Coil O.D. + 2.8	See Data Page
	3	21.0	11.4	7.6	--	--	--	--	Coil O.D. + 2.8	
	4	24.1	15.2	11.4	--	--	--	--	Coil O.D. + 2.8	
	5	31.8	17.8	12.7	--	--	--	--	Coil O.D. + 3.3	
"V" Vertical Mount	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	--	
	5	32.0	20.5	35.0	17.5	12.5	27.5	7.5	--	0.75 x 1.10
	6	32.0	23.0	35.0	20.0	12.5	27.5	7.5	--	
	9	43.0	28.0	47.5	25.0	25.0	40.0	7.5	--	
"F" Flat Mount	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	--	--	--	
	6	32.5	32.0	20.0	20.0	30.0	--	--	--	
	9	42.5	42.0	28.5	25.0	35.0	--	--	--	
Base Mount "B-I"	5	25.4	15.2	10.2	20.3	34.3	--	--	Coil O.D. + 3.5	1.27
	8	27.9	20.3	15.2	22.9	36.8	--	--		
	10	35.6	22.9	17.8	30.5	44.5	--	--		
	11	43.2	27.9	22.9	38.1	52.1	--	--		
"B-II"	3	19.1	10.8	6.4	15.2	15.9	--	--	Coil O.D. + 3.8	1.02

talema group

SA Series • High Efficiency • High Stability Storage Chokes

SA Series storage chokes have been designed with Fe-based amorphous alloy which provides high flux density and low core loss which is ideal for optimizing choke design. Providing exceptional efficiency and field modulation when used as loading coils for interim energy storage with SMPS, the use of amorphous cores gives a highly stable inductance over a wide DC bias current range and high "Q" with operating frequencies upto 500KHz.



Features

- Fe-based amorphous alloy cores
- Operating frequencies upto 500KHz
- Small size and high "Q"
- Highly stable inductance with changing DC bias current
- Low temperature rise
- Fully encapsulated styles available meeting class GFK (-40°C to +125°C, humidity class F) as per DIN 40040
- Manufactured in ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Fully RoHS & REACH Compliant

Electrical Specifications @25°C

Test frequency: Inductance measured @10KHz / 100mV
Test voltage between windings: 500Vrms
Operating temperature: -40°C to +125°C
Climatic category: IEC68-1 40/125/56

Part Number	I_{DC} Amps	L (µH) Typ. @ Rated Current	L_O (µH) ±25% No Load	DCR mOhms Typical	Energy Storage (µJ) *	Schematic	Coil Size O.D. x Ht. (a x b)	Housing Size Code		Mounting Style (Terminal Ød)		
								F	V	O	F	V
SA__-0.63-22	0.63	22	23	95	4	1	12 x 8	17	20	0.355	0.60	0.80
SA__-0.63-33		33	35	118	7	1	12 x 8	17	20	0.355	0.60	0.80
SA__-0.63-47		47	49	141	10	1	13 x 9	17	20	0.355	0.60	0.80
SA__-0.63-68		68	70	167	13	1	13 x 9	17	20	0.355	0.60	0.80
SA__-0.63-100		100	105	206	20	1	13 x 9	17	20	0.355	0.60	0.80
SA__-0.63-150		150	157	276	29	1	13 x 9	17	20	0.335	0.60	0.80
SA__-0.63-220		220	248	348	44	1	14 x 9	17	20	0.335	0.60	0.80
SA__-0.63-330		330	389	436	65	1	14 x 9	17	20	0.335	0.60	0.80
SA__-0.63-470		470	480	421	92	1	16 x 8	22	20	0.335	0.60	0.80
SA__-0.63-680		680	728	519	136	1	17 x 9	22	25	0.335	0.60	0.80
SA__-0.63-1000		1000	1105	639	197	1	17 x 9	22	25	0.335	0.60	0.80
SA__-0.63-1500		1500	1523	801	299	1	22 x 8	29	30	0.335	0.60	0.80
SA__-0.63-2200		2200	2249	974	437	1	23 x 9	29	30	0.335	0.60	0.80
SA__-0.63-3300		3300	3514	1217	655	1	24 x 10	29	30	0.335	0.60	0.80
SA__-0.63-4700		4700	5345	1501	933	1	24 x 10	29	30	0.335	0.60	0.80
SA__-0.63-6800		6800	6949	2003	1351	1	27 x 16	32	35	0.335	0.60	0.80
SA__-0.63-8200		8200	9057	2287	1618	1	28 x 17	32	40	0.335	0.60	0.80
SA__-1.0-22	1.0	22	23	59	11	1	12 x 8	17	20	0.450	0.60	0.80
SA__-1.0-33		33	35	73	17	1	12 x 8	17	20	0.450	0.60	0.80
SA__-1.0-47		47	49	88	23	1	13 x 9	17	25	0.450	0.60	0.80
SA__-1.0-68		68	73	107	34	1	13 x 9	17	25	0.450	0.60	0.80
SA__-1.0-100		100	102	110	51	1	16 x 9	22	25	0.450	0.60	0.80
SA__-1.0-150		150	151	134	74	1	16 x 9	22	25	0.450	0.60	0.80
SA__-1.0-220		220	230	165	110	1	16 x 9	22	25	0.450	0.60	0.80
SA__-1.0-330		330	362	207	167	1	18 x 10	22	25	0.450	0.60	0.80
SA__-1.0-470		470	472	252	236	1	22 x 9	29	25	0.450	0.60	0.80
SA__-1.0-680		680	698	307	342	1	24 x 10	29	25	0.450	0.60	0.80
SA__-1.0-1000		1000	1031	373	500	1	24 x 10	29	30	0.450	0.60	0.80
SA__-1.0-1500		1500	1641	470	746	1	24 x 10	29	30	0.450	0.60	0.80
SA__-1.0-2200		2200	2589	591	1100	1	25 x 11	29	30	0.450	0.60	0.80
SA__-1.0-3300		3300	3359	788	1646	1	28 x 17	32	40	0.450	0.60	0.80
SA__-1.0-4700		4700	4968	958	2360	1	28 x 17	32	40	0.450	0.60	0.80
SA__-1.0-6800		6800	8000	1215	3400	1	29 x 18	32	40	0.450	0.60	0.80

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

Electrical Specifications @25°C

Part Number	I_{DC} Amps	L (µH) Typ. @ Rated Current	L_O (µH) ±25% No Load	DCR mOhms Typical	Energy Storage (µJ) *	Schematic	Coil Size O.D. x Ht. (a x b)	Housing Size Code		Mounting Style Terminal Ød		
								F	V	O	F	V
SA__-1.6-22	1.6	22	23	38	27	1	13 x 8	17	20	0.560	0.560	0.800
SA__-1.6-33		33	27	49	42	1	14x 9	17	25	0.560	0.560	0.800
SA__-1.6-47		47	55	60	59	1	14 x 9	17	25	0.560	0.560	0.800
SA__-1.6-68		68	67	57	84	1	17 x 9	22	25	0.560	0.560	0.800
SA__-1.6-100		100	107	73	130	1	17 x 9	22	25	0.560	0.560	0.800
SA__-1.6-150		150	169	91	195	1	17 x 9	22	25	0.560	0.560	0.800
SA__-1.6-220		220	268	115	278	1	18 x 11	22	25	0.560	0.560	0.800
SA__-1.6-330		330	343	139	426	1	23 x 9	29	25	0.560	0.560	0.800
SA__-1.6-470		470	516	170	608	1	23 x 9	29	25	0.560	0.560	0.800
SA__-1.6-680		680	765	207	872	1	24 x 11	29	30	0.560	0.560	0.800
SA__-1.6-1000		1000	1300	165	1272	1	27 x 16	32	35	0.560	0.560	0.800
SA__-1.6-1500		1500	1549	345	1923	1	27 x 16	32	35	0.560	0.560	0.800
SA__-1.6-2200		2200	2402	430	2929	1	28 x 17	32	40	0.560	0.560	0.800
SA__-1.6-3300		3300	3458	565	4205	1	33 x 17	42	40	0.560	0.560	0.800
SA__-1.6-4700		4700	4968	718	6041	1	43 x 16	49	45	0.560	0.560	0.800
SA__-1.6-5600		5600	6216	804	7161	1	45 x 18	49	--	0.560	0.560	--
SA__-2.0-22	2.0	22	23	27	46	1	15 x 8	17	20	0.630	0.630	0.630
SA__-2.0-33		33	33	32	65	1	15 x 8	17	20	0.630	0.630	0.630
SA__-2.0-47		47	49	39	83	1	15 x 8	17	20	0.630	0.630	0.630
SA__-2.0-68		68	75	48	137	1	15 x 8	17	20	0.630	0.630	0.630
SA__-2.0-100		100	112	59	200	1	16 x 9	22	20	0.630	0.630	0.630
SA__-2.0-150		150	195	76	302	1	16 x 9	22	20	0.630	0.630	0.630
SA__-2.0-220		220	234	91	446	1	23 x 10	29	30	0.630	0.630	0.630
SA__-2.0-330		330	362	113	658	1	25 x 11	29	30	0.630	0.630	0.630
SA__-2.0-470		470	551	139	947	1	25 x 11	29	30	0.630	0.630	0.630
SA__-2.0-680		680	701	184	1374	1	27 x 16	32	35	0.630	0.630	0.630
SA__-2.0-1000		1000	1060	226	2014	1	29 x 18	32	40	0.630	0.630	0.630
SA__-2.0-1500		1500	1693	285	3013	1	29 x 17	32	40	0.630	0.630	0.630
SA__-2.0-2200		2200	2500	379	4401	1	35 x 19	49	45	0.630	0.630	0.630
SA__-2.0-3300		3300	3594	483	6612	1	46 x 19	49	--	0.630	0.630	--
SA__-2.0-3900		3900	4567	544	7855	1	46 x 19	49	--	0.630	0.630	--
SA__-2.5-22	2.5	22	23	23	70	1	16 x 8	22	20	0.670	0.670	0.670
SA__-2.5-33		33	33	28	101	1	16 x 8	22	20	0.670	0.670	0.670
SA__-2.5-47		47	52	35	150	1	18 x 10	22	25	0.670	0.670	0.670
SA__-2.5-68		68	75	42	209	1	18 x 10	22	25	0.670	0.670	0.670
SA__-2.5-100		100	123	53	307	1	18 x 10	22	25	0.670	0.670	0.670
SA__-2.5-150		150	159	65	476	1	23 x 10	32	30	0.670	0.670	0.670
SA__-2.5-220		220	242	80	688	1	23 x 10	32	30	0.670	0.670	0.670
SA__-2.5-330		330	381	100	1023	1	23 x 10	32	30	0.670	0.670	0.670
SA__-2.5-470		470	476	131	1459	1	27 x 16	32	35	0.670	0.670	0.670
SA__-2.5-680		680	720	161	2138	1	27 x 16	32	35	0.670	0.670	0.670
SA__-2.5-1000		1000	1107	200	3114	1	29 x 18	32	40	0.670	0.670	0.670
SA__-2.5-1500		1500	1786	278	4743	1	34 x 18	42	40	0.670	0.670	0.670
SA__-2.5-2200		2200	2441	345	6867	1	43 x 16	49	--	0.670	0.670	--
SA__-2.5-2700		2700	3295	401	8444	1	43 x 16	49	--	0.670	0.670	--
SA__-3.15-22	3.15	22	23	19	107	1	16 x 8	22	20	0.750	0.750	0.750
SA__-3.15-33		33	36	24	164	1	18 x 10	22	25	0.750	0.750	0.750
SA__-3.15-47		47	56	29	238	1	18 x 10	22	25	0.750	0.750	0.750
SA__-3.15-68		68	71	35	346	1	22 x 8	29	25	0.750	0.750	0.750
SA__-3.15-100		100	103	42	488	1	24 x 10	29	30	0.750	0.750	0.750
SA__-3.15-150		150	165	54	736	1	24 x 10	29	30	0.750	0.750	0.750
SA__-3.15-220		220	266	68	1107	1	24 x 10	29	30	0.750	0.750	0.750
SA__-3.15-330		330	333	89	1619	1	28 x 17	32	40	0.750	0.750	0.750
SA__-3.15-470		470	492	108	2319	1	28 x 17	32	40	0.750	0.750	0.750
SA__-3.15-680		680	799	138	3369	1	28 x 17	32	40	0.750	0.750	0.750
SA__-3.15-1000		1000	1265	190	5020	1	35 x 19	42	40	0.750	0.750	0.750
SA__-3.15-1500		1500	1656	231	7393	1	44 x 17	49	--	0.750	0.750	--

When Ordering, use suffix “O”, ‘F” or “V” to designate desired package style.
Example: SAO for Open, SAV for Vertical and SAF for Flat Mount

Electrical Specifications @25°C

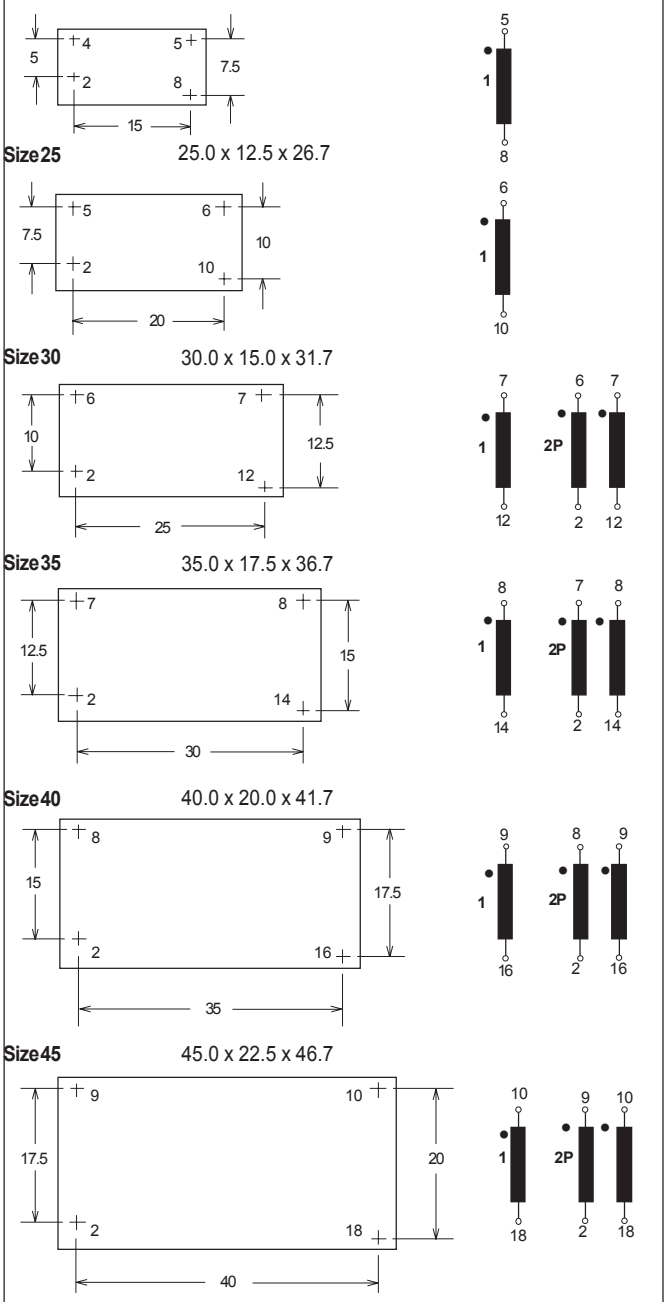
Part Number	I_{DC} Amps	L (µH) Typ. @ Rated Current	L_O (µH) ±25% No Load	DCR mOhms Typical	Energy Storage (µJ) *	Schematic	Coil Size O.D. x Ht. (a x b)	Housing Size Code		Mounting Style Terminal Ød		
								F	V	O	F	V
SA__-4.0-22	4.0	22	23	15	165	1	16 X 8	22	20	0.850	0.850	0.850
SA__-4.0-33		33	39	19	260	1	18 x 11	22	25	0.850	0.850	0.850
SA__-4.0-47		47	48	22	375	1	22 x 9	29	25	0.850	0.850	0.850
SA__-4.0-68		68	75	28	556	1	24 x 11	29	30	0.850	0.850	0.850
SA__-4.0-100		100	113	35	812	1	24 x 11	29	30	0.850	0.850	0.850
SA__-4.0-150		150	157	48	1242	1	26 x 15	32	35	0.850	0.850	0.850
SA__-4.0-220		220	226	57	1752	1	28 x 17	32	40	0.850	0.850	0.850
SA__-4.0-330		330	360	72	2646	1	28 x 17	32	40	0.850	0.850	0.850
SA__-4.0-400		400	476	83	3239	1	28 x 17	32	40	0.850	0.850	0.850
SA__-4.0-470		470	508	94	3738	1	33 x 17	42	40	0.850	0.850	0.850
SA__-4.0-680		680	703	117	5515	1	44 x 17	49	--	0.850	0.850	--
SA__-4.0-1000		1000	1191	153	8006	1	44 x 17	49	--	0.850	0.850	--
SA__-5.0-22	5.0	22	28	13	281	1	19 x 11	22	25	0.950	0.950	0.950
SA__-5.0-33		33	35	15	430	1	22 x 9	29	25	0.950	0.950	0.950
SA__-5.0-47		47	51	19	596	1	22 x 9	29	25	0.950	0.950	0.950
SA__-5.0-68		68	75	23	831	1	25 x 11	29	30	0.950	0.950	0.950
SA__-5.0-100		100	100	31	1242	1	26 x 15	32	35	0.950	0.950	0.950
SA__-5.0-150		150	157	38	1882	1	26 x 15	32	35	0.950	0.950	0.950
SA__-5.0-220		220	237	47	2722	1	29 x 18	32	40	0.950	0.950	0.950
SA__-5.0-330		330	362	63	4068	1	34 x 18	42	40	0.950	0.950	0.950
SA__-5.0-470		470	492	78	5955	1	42 x 15	49	45	0.950	0.950	0.950
SA__-5.0-630		630	703	94	7914	1	45 x 18	49	--	0.950	0.950	--
SA__-5.0-680		680	845	103	8554	1	45 x 18	49	--	0.950	0.950	--
SA__-6.3-22	6.3	22	24	9	450	1	23 x 9	29	25	1.120	1.120	1.120
SA__-6.3-33		33	35	11	635	1	23 x 9	29	25	1.120	1.120	1.120
SA__-6.3-47		47	55	14	959	1	26 x 12	29	30	1.120	1.120	1.120
SA__-6.3-68		68	68	18	1317	1	27 x 16	32	35	1.120	1.120	1.120
SA__-6.3-100		100	108	23	2051	1	27 x 16	32	35	1.120	1.120	1.120
SA__-6.3-150		150	166	28	2963	1	30 x 19	32	40	1.120	1.120	1.120
SA__-6.3-220		220	251	38	4435	1	35 x 19	42	40	1.120	1.120	1.120
SA__-6.3-330		330	357	48	6587	1	43 x 16	49	45	1.120	1.120	1.120
SA__-6.3-390		390	459	55	7842	1	46 x 19	49	--	1.120	1.120	--
SA__-8.0-22	8.0	22	24	7	695	1	23 x 10	29	30	1.250	1.250	1.250
SA__-8.0-33		33	38	9	1037	1	26 x 13	29	30	1.250	1.250	1.250
SA__-8.0-47		47	47	12	1434	1	27 x 16	32	35	1.250	1.250	1.250
SA__-8.0-68		68	74	15	2241	1	27 x 16	32	35	1.250	1.250	1.250
SA__-8.0-100		100	123	20	3188	1	30 x 19	32	40	1.250	1.250	1.250
SA__-8.0-150		150	179	26	4698	1	35 x 19	42	40	1.250	1.250	1.250
SA__-8.0-220		220	244	32	7107	1	43 x 16	49	45	1.250	1.250	1.250
SA__-8.0-270		270	330	37	8554	1	46 x 19	49	--	1.250	1.250	--
SA__-10-22	10	22	22	7	1060	1	27 x 16	32	40	1.320	1.320	1.320
SA__-10-33		33	33	9	1589	1	27 x 16	32	40	1.320	1.320	1.320
SA__-10-47		47	51	11	2406	1	27 x 16	32	40	1.320	1.320	1.320
SA__-10-68		68	80	14	3280	1	27 x 16	32	40	1.320	1.320	1.320
SA__-10-100		100	127	19	5079	1	34 x 18	42	40	1.320	1.320	1.320
SA__-10-150		150	171	24	7442	1	43 x 16	49	--	1.320	1.320	--
SA__-10-180		180	233	27	8876	1	43 x 16	49	--	1.320	1.320	--
SA__-16-22	16	22	29	5	2986	2P	30 x 19	32	40	1.180	1.180	1.180
SA__-16-33		33	36	6	4128	2P	35 x 19	42	40	1.180	1.180	1.180
SA__-16-47		47	70	10	7150	2P	43 x 16	49	45	1.180	1.180	1.180
SA__-16-68		68	83	10	8554	2P	43 x 16	49	45	1.180	1.180	1.180
SA__-20-10	20	10	10	3	2011	2P	27 x 16	32	40	1.320	1.320	1.320
SA__-20-22		22	24	4	4278	2P	32 x 16	42	40	1.320	1.320	1.320
SA__-20-33		33	38	6	6867	2P	43 x 16	49	--	1.320	1.320	--
SA__-20-47		47	53	7	8976	2P	43 x 16	49	--	1.320	1.320	--

Notes:

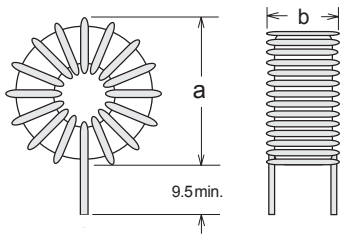
1) The µJoule rating (½LI²) is the ability of the inductor to store energy.
2) Schematic: 1 = One Winding; 2P = Two Windings, Parallel Connection.
3) Inductance measured @10KHz / 0.10Vrms without DC Current, @10KHz / 0.25Vrms with DC Current.
4) On larger units and units wound with finer wire additional mechanical mounting is recommended. See next page for Mounting Options.

Mounting Style "V"

Dimensions X x Y x Z	Schematics 1	2
Size20 20.0 x 10.0 x 21.7		
Size25 25.0 x 12.5 x 26.7		
Size30 30.0 x 15.0 x 31.7		
Size35 35.0 x 17.5 x 36.7		
Size40 40.0 x 20.0 x 41.7		
Size45 45.0 x 22.5 x 46.7		

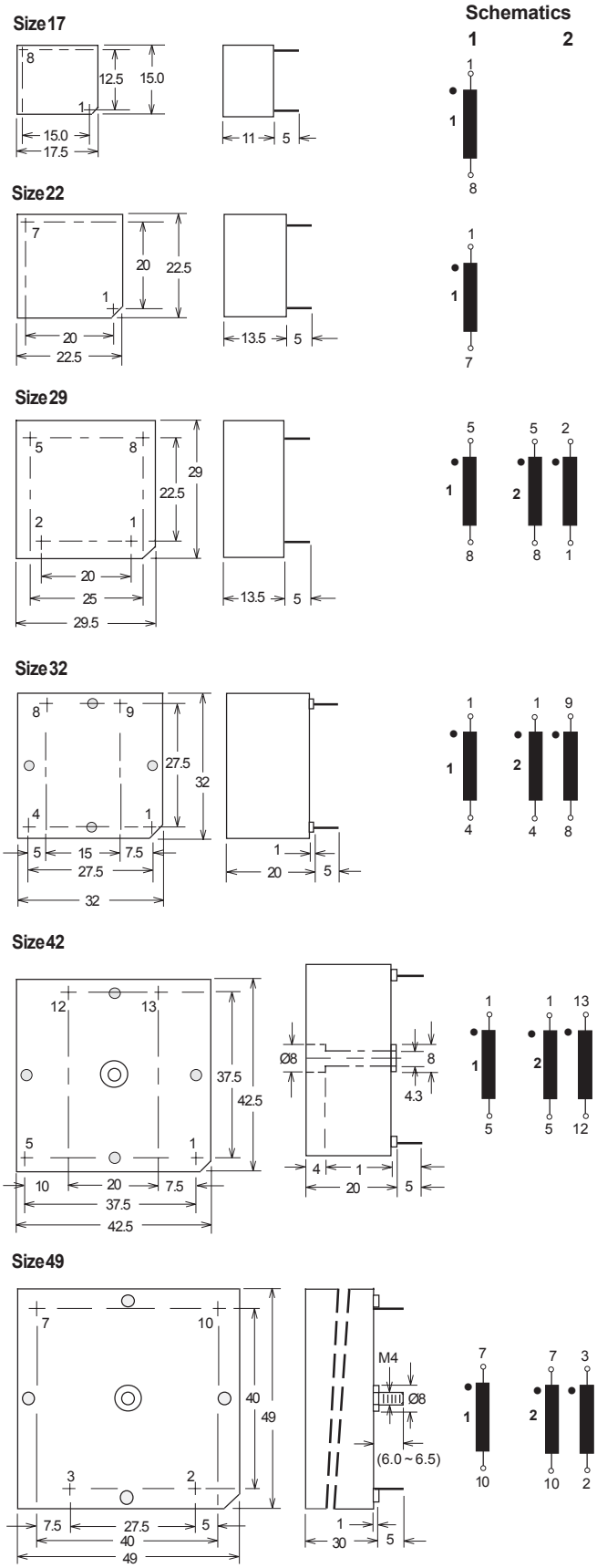


Mounting Style ' O' = Open Mount



Mounting Style "F"

Schematics 1 2



Tolerance on Pin Length: ± 0.30mm

talema group

SD Series • High Efficiency Storage Chokes

SD Series storage chokes provide excellent efficiency and field modulation when used as loading coils for interim energy storage with switch mode power supplies. The use of MPP cores allows compact size, a highly stable inductance over a wide bias current range and high "Q" with operating frequencies upto 200KHz

Features

- Operating frequency upto 200KHz
- Small size and high "Q"
- Highly stable inductance with changing bias current
- Fully encapsulated styles available meeting class GFK (-40°C to +125°C, humidity class F) per DIN 40040.
- Manufactured in ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Fully RoHS & REACH Compliant

Electrical Specifications @25°C

Test frequency: Inductance measured @10KHz/100mV
Test voltage between windings: 500Vrms
Operating temperature: -40°C to +125°C
Climatic category: IEC68-1 40/125/56

Part Number	I_{DC} Amps	L (µH) Typ. @ Rated Current	L_O (µH) ±15% No Load	DCR mOhms Typical	Energy Storage (µJ)[1]	Schemati[2] Mounting Style			Coil Size O.D. x Ht. (a x b)	Housing Size Code		Mounting Style Terminals Ød		
						O	F	V		F	V	O	F	V
SD__-0.63-400	0.63	400	474	537	79	1	1	1	15 x 7	17	20	0.250	0.600	0.800
SD__-0.63-500		500	620	670	99	1	1	1	15 x 7	17	20	0.250	0.600	0.800
SD__-0.63-630		630	820	563	12	1	1	1	15 x 7	17	20	0.280	0.600	0.800
SD__-0.63-1000		1000	1157	650	198	1	1	1	19 x 9	22	25	0.300	0.600	0.800
SD__-0.63-2000		2000	2695	992	397	1	1	1	20 x 9	22	25	0.300	0.600	0.800
SD__-0.63-2500		2500	3080	730	496	1	1	1	26 x 12	29	30	0.400	0.600	0.800
SD__-0.63-4000		4000	5625	1000	794	1	1	1	26 x 12	29	30	0.400	0.600	0.800
SD__-0.63-6000		6000	7600	1150	1191	1	1	1	30 x 15	32	35	0.40	0.600	0.800
SD__-1.0-250	1.0	250	323	354	125	1	1	1	15 x 7	17	20	0.355	0.600	0.800
SD__-1.0-500		500	580	210	250	1	1	1	19 x 9	22	25	0.450	0.600	0.800
SD__-1.0-1000		1000	1250	290	500	1	1	1	26 x 12	29	30	0.500	0.600	0.800
SD__-1.0-2500		2500	4160	550	1250	1	1	1	26 x 12	29	30	0.500	0.600	0.800
SD__-1.0-4000		4000	5970	820	2000	1	1	1	30 x 15	32	35	0.450	0.600	0.800
SD__-1.0-6000		6000	9260	970	3000	1	2R	1	37 x 15	42	40	0.500	0.500	0.800
SD__-1.6-160	1.6	160	251	127	205	1	1	1	15 x 7	17	20	0.500	0.800	0.800
SD__-1.6-315		315	443	289	408	1	1	1	19 x 8	22	25	0.355	0.800	0.800
SD__-1.6-400		400	613	266	502	1	1	1	19 x 9	22	25	0.400	0.800	0.800
SD__-1.6-500		500	695	115	640	1	1	1	26 x 12	29	30	0.710	0.800	0.800
SD__-1.6-1000		1000	1290	195	1280	1	2R	1	30 x 15	32	35	0.630	0.630	0.800
SD__-1.6-2500		2500	3670	380	3200	1	1	1	37 x 15	42	40	0.630	0.800	0.800
SD__-1.6-4000		4000	5440	450	5140	1	1	--	44 x 18	49	--	0.630	0.800	--
SD__-2.0-63	2.0	63	81	87	126	1	1	1	14 x 6	17	20	0.400	0.800	0.800
SD__-2.0-100		100	115	161	200	1	1	1	19 x 8	22	25	0.355	0.800	0.800
SD__-2.0-315		315	422	168	650	1	1	1	25 x 9	29	30	0.800	0.800	0.800
SD__-2.0-630		630	885	120	1260	1	1	1	26 x 12	29	30	0.750	0.800	0.800
SD__-2.0-1000		1000	1387	145	2000	1	1	1	30 x 15	42	35	0.750	0.800	0.800
SD__-2.0-1600		1600	2420	200	3200	1	1	1	37 x 15	42	40	0.800	0.800	0.800
SD__-2.0-2500		2500	3240	313	5000	1	1	--	46 x 20	49	--	0.850	0.850	--
SD__-2.5-63	2.5	63	99	62	197	1	1	1	14 x 6	17	20	0.500	0.800	0.800
SD__-2.5-100		100	129	122	312	1	1	1	19 x 8	22	25	0.400	0.800	0.800
SD__-2.5-160		160	241	132	489	1	1	1	19 x 8	22	25	0.450	0.800	0.800
SD__-2.5-200		200	275	70	630	1	2R	1	26 x 12	29	30	0.750	0.750	0.800
SD__-2.5-400		400	790	120	1250	1	2R	1	26 x 12	29	30	0.710	0.710	0.800
SD__-2.5-1000		1000	1521	125	3125	1	2R	1	39 x 16	42	45	0.950	0.950	1.000
SD__-3.15-63	3.15	63	80	62	312	1	1	1	19 x 8	22	25	0.500	0.800	0.800
SD__-3.15-100		100	157	60	498	1	1	1	19 x 8	22	25	0.600	0.800	0.800
SD__-3.15-160		160	234	86	794	1	1	1	25 x 10	29	30	0.600	0.800	0.800
SD__-3.15-250		250	570	85	1240	1	2P	1	26 x 12	29	30	0.560	0.560	0.800
SD__-3.15-630		630	1122	110	3125	1	2R	1	37 x 15	42	40	0.900	0.900	0.900

Electrical Specifications @25°C

Part Number	I_{DC} Amps	L (µH) Typ. @ Rated Current	L_O (µH) ±15% No Load	DCR mOhms Typical	Energy Storage (µJ) [1]	Schematic[2] Mounting Style			Coil Size O.D. x Ht. (a x b)	Housing Size Code		Mounting Style Terminals Ød		
						O	F	V		F	V	O	F	V
SD__-4.0-47	4.0	47	65	55	376	1	1	1	20 x 9	22	25	0.500	0.800	0.800
SD__-4.0-100		100	144	68	800	1	1	1	25 x 10	29	30	0.600	0.800	0.800
SD__-4.0-160		160	240	40	1280	1	1	1	26 x 12	29	30	0.900	1.000	0.900
SD__-4.0-250		250	345	50	2000	1	1	1	30 x 15	42	45	0.950	1.000	1.000
SD__-5.0-47	5.0	47	60	44	588	1	1	1	25 x 10	29	30	0.600	0.800	0.800
SD__-5.0-63		63	91	43	797	1	1	1	25 x 10	29	30	0.670	0.800	0.800
SD__-5.0-100		100	165	27	1250	2P	2P	2P	26 x 12	29	30	0.750	0.750	0.750
SD__-5.0-250		250	357	40	3125	2R	1	1	39 x 16	42	45	1.180	1.180	1.180
SD__-6.3-47	6.3	47	76	44	946	1	1	1	26 x 11	29	30	1.000	1.000	1.000
SD__-6.3-63		63	120	17	1250	1	1	1	26 x 12	29A	30	1.180	1,180	1.180
SD__-6.3-100		100	160	28	2010	1	1	1	29 x 13	32	35	0.670	0.800	0.800
SD__-6.3-200		200	266	44	3969	2P	2P	2P	38 x 17	42	40	0.850	0.850	0.850
SD__-8.0-47	8.0	47	63	43	1507	1	1	1	29 x 13	32	35	0.670	0.800	0.800
SD__-8.0-63		63	95	12	2016	2P	2P	1	30 x 15	32	35	0.950	0.950	0.950

The Talema engineering staff can asist in the design of other inductance values and sizes including pre-designed cable lug models to 63 Amps.

1) The µJoule rating (½LI²) is the ability of the inductor to store energy.
2) Schematic:
   1 = one winding
   2P = two windings, Parallel Connection
   2R = two windings, Series Connection.
3) Inductance measured @10KHz / 0.10Vrms without DC Current, @10KHz / 0.25Vrms with DC Current.
4) On larger units and units wound with fine wire, additional mechanical mounting is recommended. See next page for Mounting Styles.

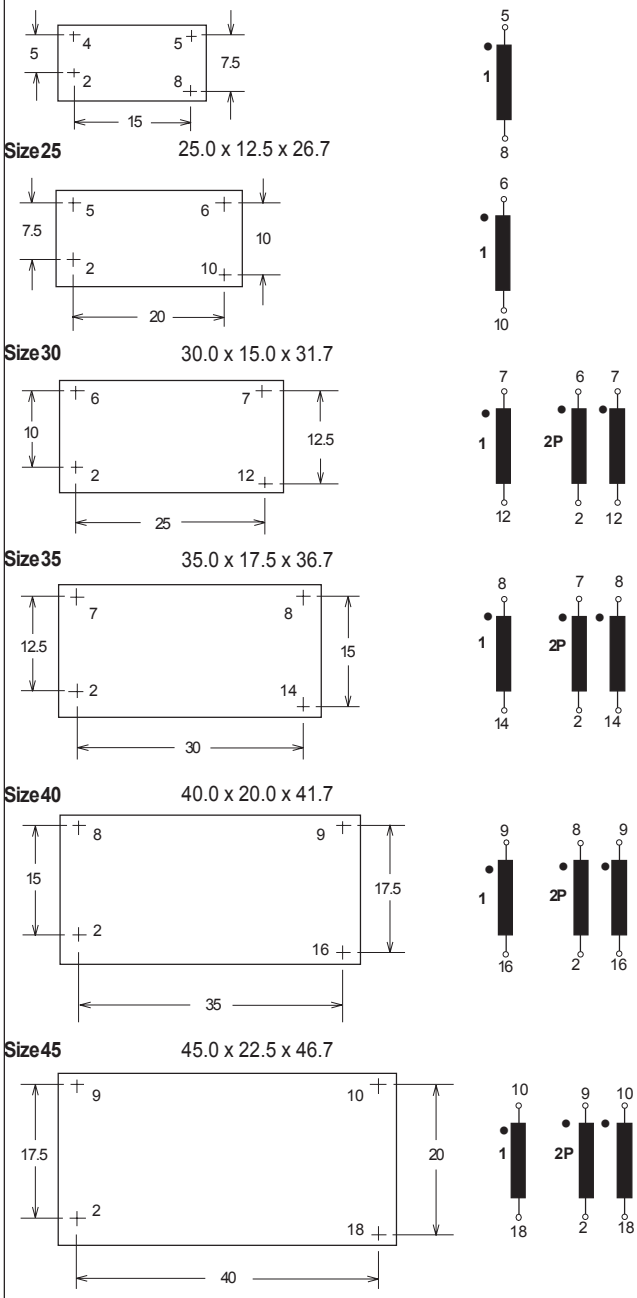
Ordering Key

SD V - 0.63 - 500 µH

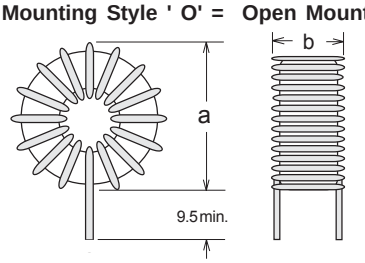
- 500 µH — Inductance Value in µH
- 0.63 — Current Rating (Amps)
- V — Mounting Style - Specify the appropriate suffix
  - O = Open Mount
  - V = Vertical Encapsulated
  - F = Flat Encapsulated
- SD — Basic Series Designation

Mounting Style "V"

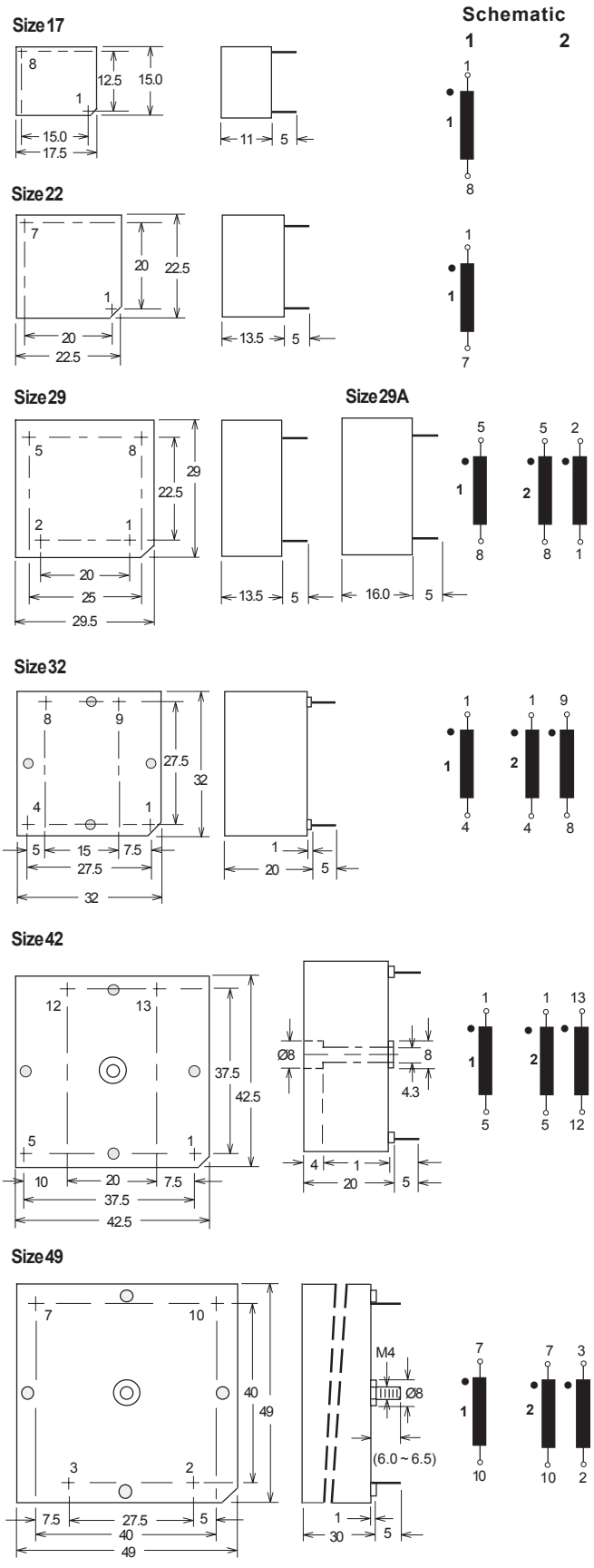
Dimensions X x Y x Z	Schematic 1	2
Size 20 — 20.0 x 10.0 x 21.7		
Size 25 — 25.0 x 12.5 x 26.7		
Size 30 — 30.0 x 15.0 x 31.7		
Size 35 — 35.0 x 17.5 x 36.7		
Size 40 — 40.0 x 20.0 x 41.7		
Size 45 — 45.0 x 22.5 x 46.7		



Mounting Style ' O' = Open Mount



Mounting Style "F"



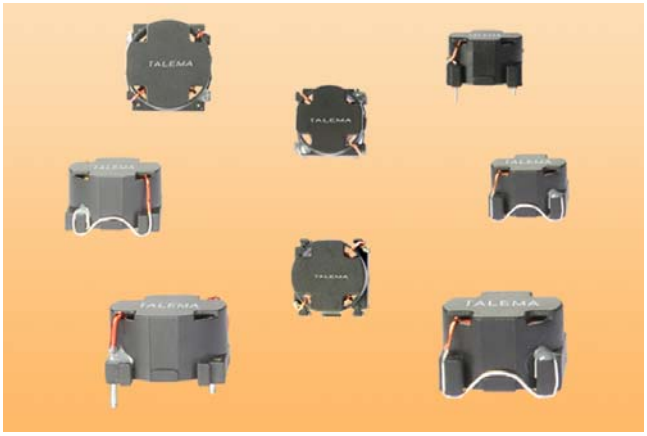
Tolerance on Pin Length: ± 0.30mm

talema group

SL Series • Toroidal Power Inductors

Features

- Operating frequency to 1MHz
- High energy storage with minimum saturation
- High stability from no load to full load
- Available in both SMD and TH versions
- Manufactured in ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Meets lead free reflow level J-STD-020C
- Fully RoHS & REACH Compliant



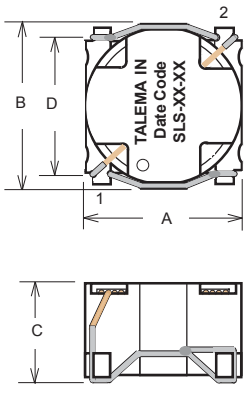
Electrical Specifications @25°C

Test frequency: Inductance measured @10KHz / 10mV
Test voltage between windings: 500Vrms
Operating temperature range: -40°C to +130°C
Climatic Category: IEC68-1 40/125/56

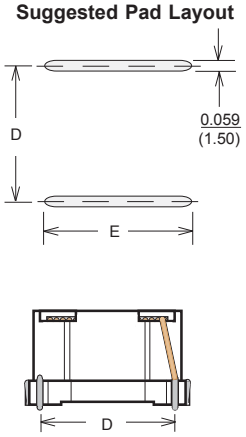
Part Number	Rated Current (I_{DC})	L_N (µH) @ I rated ±20%	L_O (µH) No Load ±20%	DCR (mOhms) Nominal	Energy Storage (µJ)	Package	
						"SMD"	"THT"
SL__-3.4-1.01	3.40	1.01	1.10	9.6	6	S1	T1
SL__-1.4-6.2	1.40	6.20	7.00	62.0	6	S1	T1
SL__-1.0-17.6	1.00	17.60	23.96	117.7	9	S1	T1
SL__-4.8-3.8	4.80	3.80	5.20	17.0	44	S2	T2
SL__-2.8-9.4	2.80	9.40	12.20	41.1	37	S2	T2
SL__-1.4-29.7	1.40	29.70	35.30	144.3	29	S2	T2
SL__-0.94-114	0.94	114.00	167.00	411.2	50	S2	T2
SL__-8.0-2.5	8.00	2.50	3.80	7.8	80	S3	T3
SL__-5.4-5.1	5.40	5.10	7.50	17.5	74	S3	T3
SL__-2.7-16.2	2.70	16.20	21.90	68.5	59	S3	T3
SL__-1.3-58.1	1.30	58.10	73.00	288.8	49	S3	T3
SL__-0.9-192	0.90	192.00	292.00	534.7	78	S3	T3
SL__-0.72-383	0.72	383.00	674.00	765.0	99	S3	T3
SL__-7.8-4.9	7.80	4.90	7.90	10.9	149	S4	T4
SL__-5.5-9.0	5.50	9.00	14.00	26.1	136	S4	T4
SL__-2.7-29.1	2.70	29.10	40.50	93.8	106	S4	T4
SL__-0.74-645	0.74	645.00	1134.00	1267.2	177	S4	T4
SL__-14.3-0.81	14.30	0.81	1.25	2.3	83	SH3	--
SL__-11.5-1.32	11.50	1.32	2.10	3.2	87	SH3	--
SL__-13.9-1.68	13.90	1.68	2.80	3.3	162	SH4	--
SL__-11.4-2.5	11.40	2.50	4.20	4.9	162	SH4	--
SL__-7.2-9.3	7.20	9.30	16.00	15.1	241	S5	T5
SL__-5.1-16.1	5.10	16.10	25.90	27.3	209	S5	T5
SL__-2.6-50.0	2.60	50.00	72.90	117.2	169	S5	T5
SL__-0.71-1070	0.71	1070.00	1950.00	1616.1	270	S5	T5
SL__-12.4-3.5	12.40	3.50	6.50	5.9	269	SH5	--
SL__-10.4-4.7	10.40	4.70	8.40	7.1	254	SH5	--
SL__-15.4-5.2	15.40	5.20	10.30	5.5	617	SH6A	TH6A
SL__-10.9-9.4	10.90	9.40	17.60	11.3	558	SH6A	TH6A
Coupled Inductors							
SLC__-1.1-43.6	1.10	43.60	70.30	280.7	26	SC3	TC3
SLC__-2.7-21.9	2.70	21.90	42.90	81.0	80	SC4	--
SLC__-6.4-4.03	6.40	4.03	6.50	19.0	82	SC5	TC5
SLC__-23.8-0.53	23.80	0.53	0.88	1.2	150	SHC4	--
SLC__-21-1.1	21.00	1.10	2.10	2.1	243	SHC5	--
SLC__-22.4-2.1	22.40	2.10	4.00	3.1	527	SHC6	THC6

Note: The inductance values listed above are based on a 55°C temperature rise and 25°C ambient temperture.

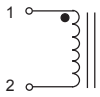
Type S1 - S5



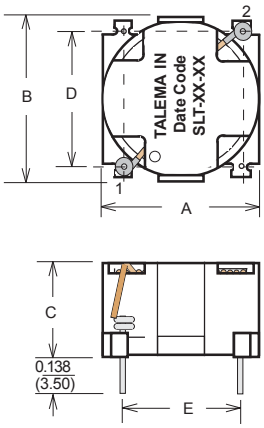
Suggested Pad Layout



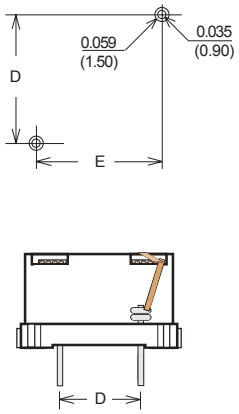
Schematic



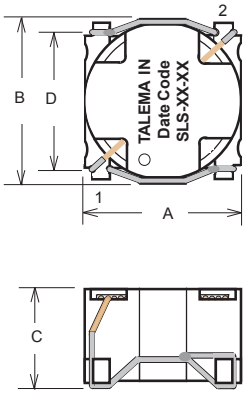
Type T1 - T5



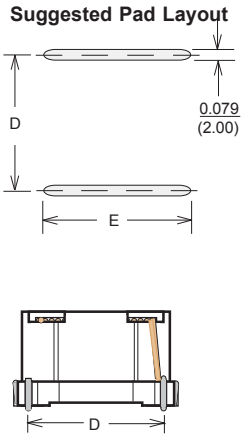
Suggested Board Layout (Top Side View)



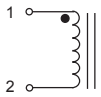
Type SH3 - SH6A



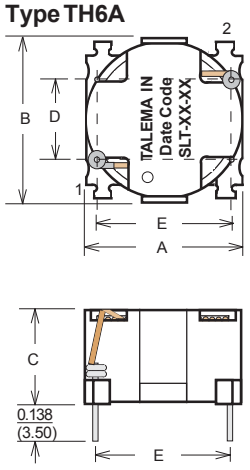
Suggested Pad Layout

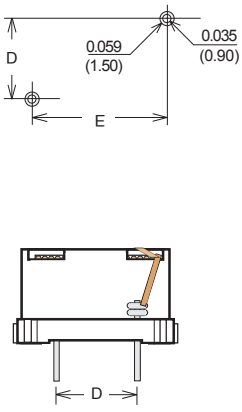


Schematic



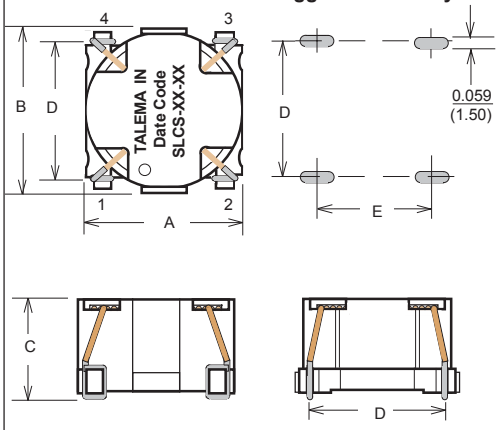
Type TH6A



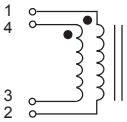


Type SC3 - SC5

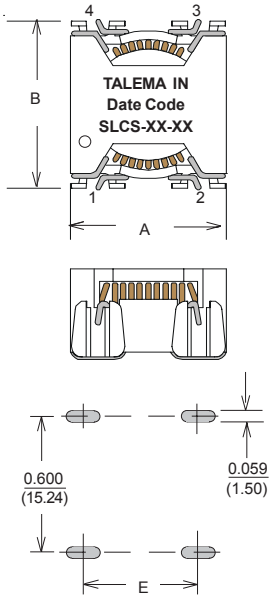
Suggested Pad Layout



Schematic

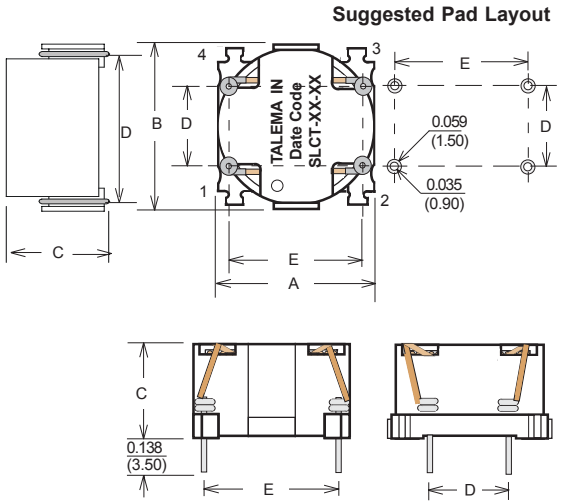


Type SC4



Type TC3 & TC5

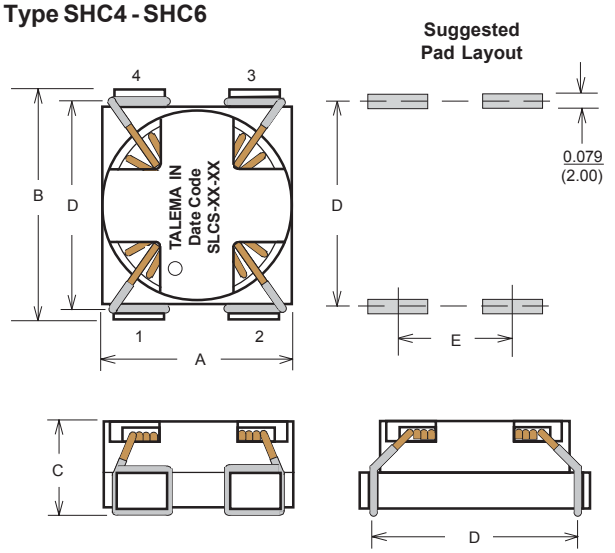
Suggested Pad Layout



Coupling Transformers

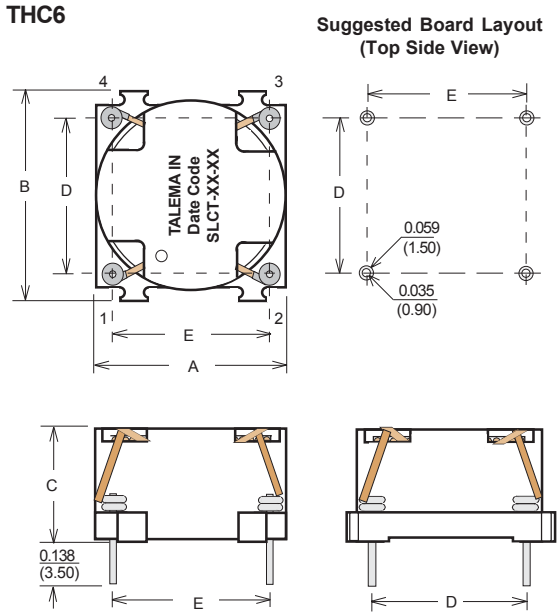
Surface Mount Style

Type SHC4 - SHC6



Through Hole Style

THC6



Note:
When ordering, add "S" or "T" to the basic part number to denote preferred mounting style.
Example: SLS-3.4-1.03 for SMD or SLT-3.4-1.03 for through hole mounting.

Mounting Style	Size Code	Dimensions - Inches ±0.010 (mm ±0.25)				
		A	B	C	D	E
"S"	S1	0.339 (8.60)	0.339 (8.60)	0.220 (5.60)	0.268 (6.90)	0.354 (9.00)
	S2	0.433 (11.00)	0.441 (11.20)	0.303 (7.70)	0.358 (9.10)	0.413 (10.50)
	S3	0.551 (14.00)	0.559 (14.20)	0.343 (8.70)	0.461 (11.70)	0.520 (13.20)
	S4	0.591 (15.00)	0.614 (15.60)	0.390 (9.90)	0.508 (12.90)	0.551 (14.00)
	S5	0.669 (17.00)	0.701 (17.80)	0.441 (11.20)	0.591 (15.00)	0.630 (16.00)
"SH"	SH3	0.620 (15.75)	0.605 (15.37)	0.370 (9.40)	0.500 (12.70)	0.500 (12.70)
	SH4	0.670 (17.02)	0.670 (17.02)	0.390 (9.90)	O.560 (14.22)	0.490 (12.45)
	SH5	0.740 (18.80)	0.740 (18.80)	0.390 (9.90)	0.630 (16.00)	0.640 (16.26)
	SH6A	0.925 (23.50)	0.957 (24.30)	0.445 (11.30)	0.843 (21.40)	0.728 (18.50)
"SC"	SC3	0.551 (14.00)	0.630 (16.00)	0.343 (8.70)	0.530 (13.46)	0.348 (8.84)
	SC4	0.590 (14.99)	0.715 (18.16)	0.390 (9.91)	0.600 (15.24)	0.370 (9.40)
	SC5	0.662 (16.82)	0.760 (19.31)	0.413 (10.50)	0.660 (16.76)	0.445 (11.30)
"SHC"	SHC4	0.715 (18.16)	0.865 (21.97)	0.390 (9.91)	0.760 (19.30)	0.360 (9.14)
	SHC5	0.800 (20.32)	0.910 (23.11)	0.390 (9.91)	0.800 (20.32)	0.440 (11.18)
	SHC6	1.000 (25.40)	1.104 (28.05)	0.409 (10.40)	1.010 (25.65)	0.620 (15.75)

Mounting Style	Size Code	Dimensions - Inches ±0.010 (mm ±0.25)					
		A	B	C	D	E	Lead Ø
"T"	T1	0.339 (8.60)	0.339 (8.60)	0.201 (5.10)	0.250 (6.35)	0.250 (6.35)	0.020 (0.50)
	T2	0.433 (11.00)	0.441 (11.20)	0.280 (7.10)	0.300 (7.62)	0.300 (7.62)	0.020 (0.50)
	T3	0.551 (14.00)	0.559 (14.20)	0.311 (7.90)	0.375 (9.52)	0.375 (9.52)	0.020 (0.50)
	T4	0.591 (15.00)	0.614 (15.60)	0.358 (9.10)	0.300 (7.62)	0.500 (12.70)	0.022 (0.55)
	T5	0.669 (17.00)	0.701 (17.80)	0.409 (10.40)	0.600 (15.24)	0.500 (12.70)	.026 (0.65)
"TH"	--	--	--	--	--	--	--
	--	--	--	--	--	--	--
	--	--	--	--	--	--	--
	TH6A	0.925 (23.50)	0.957 (24.30)	0.386 (9.80)	0.650 (16.51)	0.800 (20.32)	0.031 (0.80)
"TC"	TC3	0.551 (14.00)	0.630 (16.00)	0.327 (8.30)	0.500 (12.70)	0.400 (10.16)	0.024 (0.60)
	--	--	--	--	--	--	--
	TC5	0.662 (16.82)	0.760 (19.31)	0.362 (9.20)	0.500 (12.70)	0.500 (12.70)	0.024 (0.60)
"THC"	--	--	--	--	--	--	--
	--	--	--	--	--	--	--
	THC6	1.000 (25.40)	1.104 (28.05)	0.357 (9.08)	1.000 (25.40)	0.600 (15.24)	0.028 (0.70)

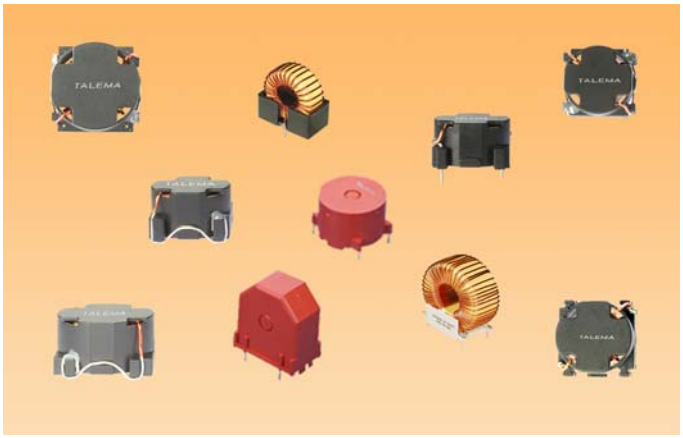
talema group

SH50 Series • Inductors for National's 50KHz Simple Switcher™

Compatible with National Semiconductor's Simple Switcher™ Part Numbers' LM2574, LM2475 and LM2576

Features

- High energy storage with minimum saturation
- High stability from no load to full load
- Available in both SMD and THT versions
- Manufactured in ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Meets lead free reflow level J-STD-020C
- Fully RoHS & REACH Compliant



Electrical Specifications @25°C

Test frequency: Inductance measured @20KHz / 10mV
Test voltage between windings: 500Vrms
Operating temperature range: -40°C to +125°C
Climatic Category: IEC68-1 40/125/56

Part Number	Rated Current (I_{DC})	L_N (µH) Typical *	L_O (µH) ±20% No DC Load	ET_{OP} (V-µSec) Max.	DCR (Ohms) Max.	Package					
						"C"	"S"	"T"	"B"	"F"	"V"
SH50_-3.0-47	3.0	47	38	90	0.05	2	5	*			
SH50C-5.0-36	5.0	36	55	90	0.02	4					
SH50C-3.0-100	3.0	100	91	90	0.04	4					
SH50_-2.0-150	2.0	150	130	90	0.10	4	6	6			
SH50_-1.4-220	1.4	220	230	90	0.38		5	*		2	2
SH50_-1.4-176	1.4	220	176	90	0.14	3	6A	6A			
SH50_-0.9-330	0.9	330	302	90	0.74		5	*		2	2
SH50_-0.9-267	0.9	330	267	90	0.18	3	6A	6A			
SH50C-0.64-470	0.64	470	426	90	0.16	4					
SH50_-0.85-680	0.85	680	657	90	1.25		5	*		2	2
SH50C-3.0-150	3.0	150	136	200	0.10	4					
SH50C-3.0-220	3.0	220	167	200	0.07	5					
SH50C-3.0-330	3.0	330	292	200	0.15	5					
SH50C-2.0-470	2.0	470	369	200	0.17	5					
SH50C-1.3-680	1.3	680	562	200	0.20	5					
SH50C-0.95-1000	0.95	1000	762	200	0.24	5					
SH50B-0.62-1500	0.62	1500	1150	200	1.00				8		
SH50B-0.42-2200	0.42	2200	1730	200	1.80				8		

* The previous SW "T" (Size 5 - Plate version) has been discontined and replaced with a pin equivalent "Flat Mount" - Package SH50F, Size 2. Dimensions on the following Mounting Styles

Notes:

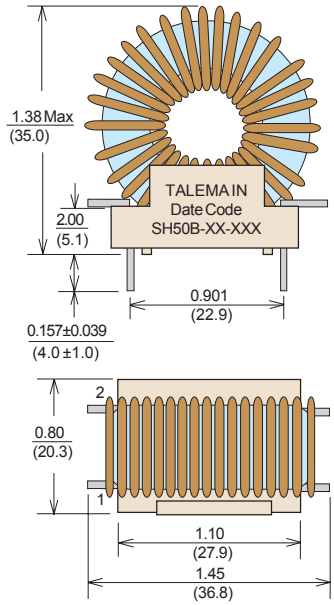
1) Inductance will be typical for the I_{DC} and ET_{OP} values listed above.
2) No load Inductance measured at B_{OP} maximum of 10 gauss (@20KHz / 10mV)
3) Simple Switcher™ is a trademark of National Semiconductor Corporation.

Ordering Key

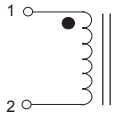
SH50 C - 3.0 - 47

- 47 — Inductance Value in µH
- 3.0 — Current Rating (Amps)
- C — Mounting Style - Specify the appropriate suffix
  - C = Clip Mount
  - S = Surface Mount
  - T = Low Profile TH Mount
  - B = Base Mount
  - F = Flat Encapsulated
  - V = Vertical Encapsulated
- SH50 — Basic Series Designation

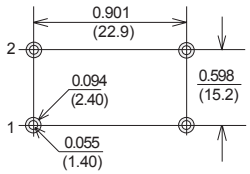
Type SH50B - Vertical Mount



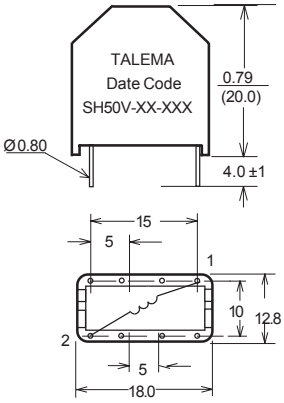
Schematic



Suggested Board Layout
(Top Side View)

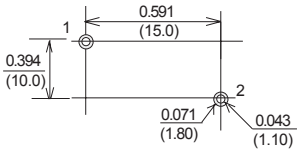


Type SH50V - Vertical Mount - Size 2

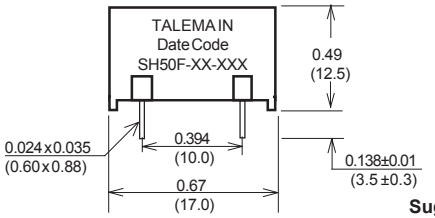


Schematic

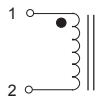
Suggested Board Layout
(Top Side View)



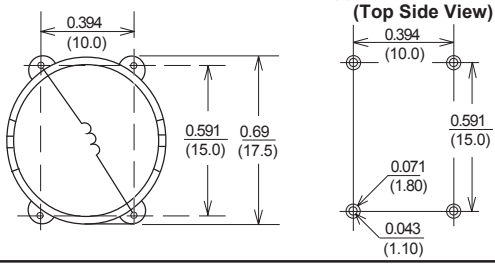
Type SH50F - Flat Mount - Size 2



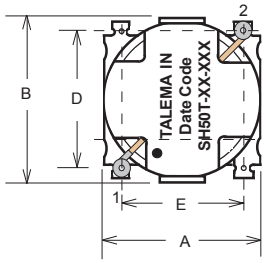
Schematic

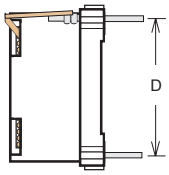


Suggested Board Layout
(Top Side View)



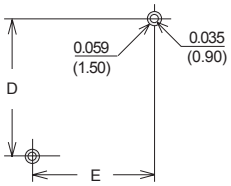
Type SH50T -Through Hole Mount

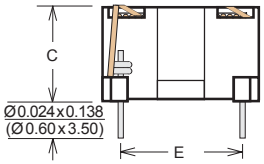




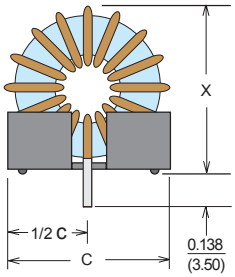
Schematic

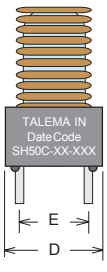
Suggested Board Layout
(Top Side View)



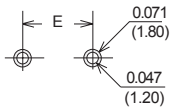


Type SH50C - Clip Mount

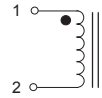




Suggested Board Layout
(Top side view)

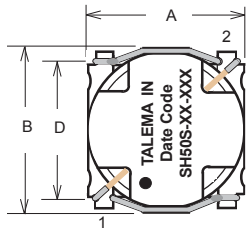


Schematic

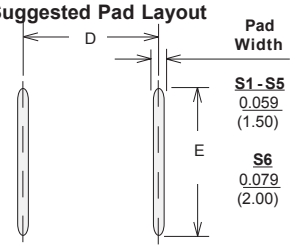


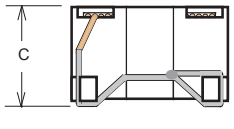
Mounting Style	Size Code	Dimensions - Inches ± 0.010 (mm ±0.25)			
		C	D	E	X = Coil O.D. +
"C" Vertical Clip Mount	C2	0.650 (16.5)	0.449 (11.4)	0.299 (7.60)	0.110 (2.80)
	C3	0.827 (21.0)	0.449 (11.4)	0.299 (7.60)	0.110 (2.80)
	C4	0.949 ((24.1)	0.598 (15.2)	0.449 (11.4)	0.110 (2.80)
	C5	1.252 (31.8)	0.701 (17.8)	0.500 (12.7)	0.130 (3.30)

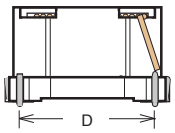
Type SH50S - Surface Mount



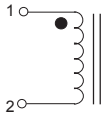
Suggested Pad Layout







Schematic



Surface Coplanarity will be< 0.005(0.13)

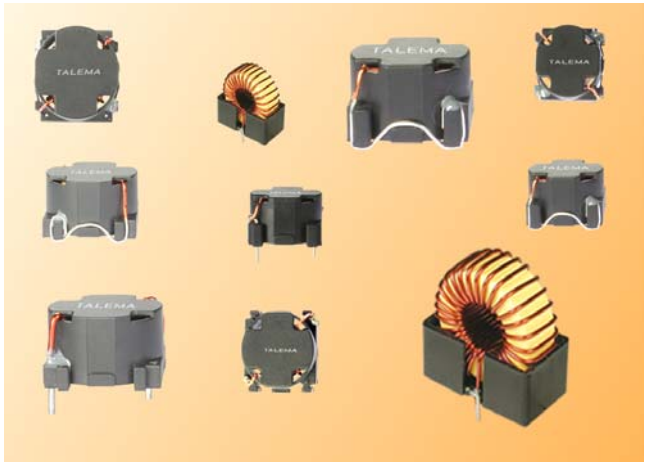
Mounting Style	Size Code	Dimensions - Inches ± 0.010 (mm ±0.25)				
		A	B	C	D	E
"S" SMD	S5	0.669 (17.0)	0.701 (17.8)	0.441 (11.2)	0.591 (15.0)	0.630 (16.0)
	SH6	0.925 (23.5)	0.957 (24.3)	0.555 (14.1)	0.843 (21.4)	0.748 (19.0)
	SH6A	0.925 (23.5)	0.957 (24.3)	0.402 (10.2)	0.843 (21.4)	0.748 (19.0)

Mounting Style	Size Code	Dimensions - Inches ± 0.010 (mm ±0.25)				
		A	B	C	D	E
"T" THT	T6	0.925 (23.5)	0.957 (24.3)	0.531 (13.5)	0.650 (16.51)	0.800 (20.32)
	TH6A	0.925 (23.5)	0.957 (24.3)	0.386 (9.8)	0.650 (16.51)	0.800 (20.32)

talema group

SH150 Series • Inductors for National's 150KHz Simple Switcher™

SH150 Series low cost toroidal inductors, designed for use with National Semiconductor's 150KHz Simple Switcher™ Part Numbers LM259X-L1 through LM259X-L44 and LM258X-L



Features

- High energy storage with minimum saturation
- High stability from no load to full load
- Available in both SMD and TH versions
- Manufactured in ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Meets lead free reflow level J-STD-020C
- Fully RoHS & REACH Compliant

Electrical Specifications @25°C

Test frequency: Inductance measured @20KHz / 10mV
Test voltage between windings: 500Vrms
Operating temperature range: -40°C to +125°C
Climatic Category: IEC68-1 40/125/56

Part Number	National Part Number	Rated Current (i_{DC})	L_N / L_0 (µH) ±20%	ET_{OP} (V-µSec) Max.	DCR (Ohms)	Energy Storage (µJ)	Package	
							"S"	"C" & "T"
SH150_-0.13-259	LM-259X-L1	0.13	259	23.1	3.40	2	S1	T1
SH150_-0.16-178	LM-259X-L2	0.16	178	16.5	2.80	2		
SH150_-0.20-118	LM-259X-L3	0.20	118	13.2	1.80	2		
SH150_-0.25-79	LM-259X-L4	0.25	79	9.9	1.50	2		
SH150_-0.30-55	LM-259X-L5	0.30	55	6.6	1.00	2		
SH150_-0.34-39	LM-259X-L6	0.34	39	6.6	0.80	2		
SH150_-0.45-26	LM-259X-L7	0.45	26	6.6	0.62	3		
SH150_-0.20-374	LM-259X-L8	0.20	374	75.9	2.70	7	S2	T2
SH150_-0.25-256	LM-259X-L9	0.25	256	33.0	2.20	8		
SH150_-0.30-176	LM-259X-L10	0.30	176	26.4	1.40	8		
SH150_-0.38-118	LM-259X-L11	0.38	118	19.8	1.20	9		
SH150_-0.46-78	LM-259X-L12	0.46	78	16.5	0.80	8		
SH150_-0.56-55	LM-259X-L13	0.56	55	13.2	0.50	9		
SH150_-0.68-39	LM-259X-L14	0.68	39	9.9	0.30	9		
SH150_-0.84-26	LM-259X-L15	0.84	26	6.6	0.20	9		
SH150_-1.02-17	LM-259X-L16	1.02	17	6.6	0.10	9		
SH150_-0.36-375	LM-259X-L17	0.36	375	75.9	1.30	24	S3	T3
SH150_-0.44-252	LM-259X-L18	0.44	252	49.5	0.90	24		
SH150_-0.54-173	LM-259X-L19	0.54	173	36.3	0.60	25		
SH150_-0.67-115	LM-259X-L20	0.67	115	29.7	0.40	26		
SH150_-0.82-78	LM-259X-L21	0.82	78	23.1	0.30	26		
SH150_-1.0-54	LM-259X-L22	1.00	54	16.5	0.20	27		
SH150_-1.2-38	LM-259X-L23	1.20	38	13.2	0.10	27		
SH150_-1.48-26	LM-259X-L24	1.48	26	9.9	0.10	28		
SH150_-1.81-18	LM-259X-L25	1.81	18	9.9	0.06	29		
SH150_-0.68-377	LM-259X-L26	0.68	377	75.9	1.00	87	S4	T4
SH150_-0.83-248	LM-259X-L27	0.83	248	72.6	0.60	85		
SH150_-1.02-168	LM-259X-L28	1.02	168	56.1	0.40	87		
SH150_-1.26-112	LM-259X-L29	1.26	112	42.9	0.30	89		
SH150_-1.54-77	LM-259X-L30	1.54	77	33.0	0.20	91		
SH150_-1.87-53	LM-259X-L31	1.87	53	26.4	0.13	93		
SH150_-2.24-37	LM-259X-L32	2.24	37	19.8	0.10	93		
SH150_-2.74-24	LM-259X-L33	2.74	24	16.5	0.07	90		
SH150_-3.00-17	LM-259X-L34	3.00	17	13.2	0.05	77		C1 - T4
SH150_-1.5-250	LM-259X-L35	1.50	250	72.6	0.23	281	SH6A	C3 - TH6A
SH150_-1.81-168	LM-259X-L36	1.81	168	75.9	0.18	275		

SH150 Series • Inductors for National's 150KHz Simple Switcher™

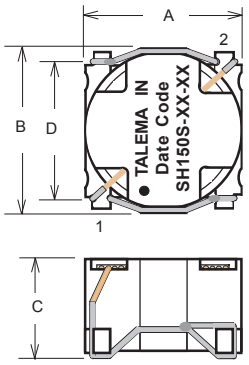
Electrical Specifications @25°C

Part Number	National Part Number	Rated Current (I_{DC})	L_N (µH) ±20%	ET_{OP} (V-µSec) Max.	DCR (Ohms)	Energy Storage (µJ)	Package	
							"S"	"C" & "T"
SH150_-2.22-114	LM-259X-L37	2.22	114	62.7	0.10	281	SH6A	C3 - TH6A
SH150_-2.70-77	LM-259X-L38	2.70	77	52.8	0.09	281		
SH150_-3.00-53	LM-259X-L39	3.00	53	42.9	0.08	239		
SH150_-3.00-38	LM-259X-L40	3.00	38	29.7	0.05	171		
SH150_-3.00-25	LM-259X-L41	3.00	25	19.8	0.04	113	S5	F2 - C2
SH150_-2.50-167	LM-259X-L42	2.50	167	75.9	0.14	522	SHC7	C4
SH150_-3.00-110	LM-259X-L43	3.00	110	75.9	0.09	495		
SH150_-3.00-77	LM-259X-L44	3.00	77	59.4	0.08	347	SH6A	C3 - TH6A
SH150_-4.50-19	LM-258X-L	4.50	19	32.0*	0.02	192		

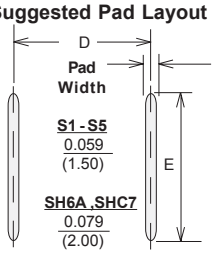
* **Note:** ET_{OP} for P/N SH150_-4.50-19 is based on a frequency of 100KHz.
All other items are rated at 150KHz. Simple SwitcherTM is a trademark of National Semiconductor Corporation.

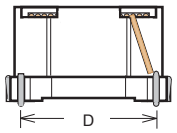
Dimensions

Type SHS - Surface Mount

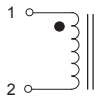


Suggested Pad Layout



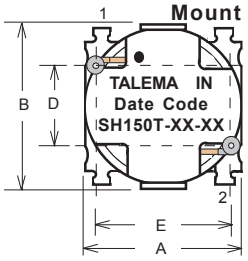


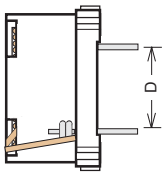
Schematic

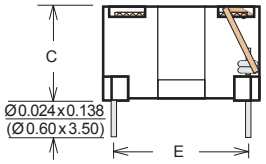


Surface Coplanarity will be <0.005 (0.13)

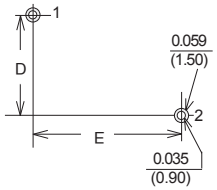
Type SHT - Through Hole Mount



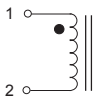




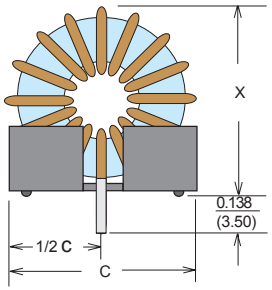
Suggested Pad Layout (Top Side Veiw)

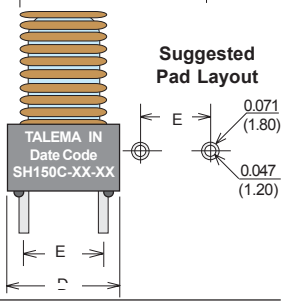


Schematic



Type SHC - Clip Mount

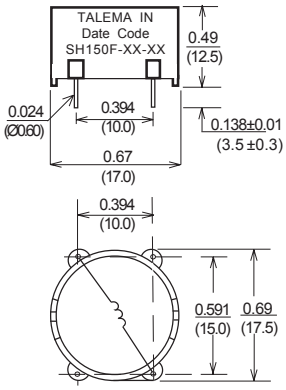




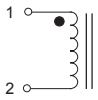
Suggested Pad Layout

Mounting Style	Size Code	Dimensions - Inches ±0.01 (mm ±0 .25)				
		A	B	C	D	E
"S" SMD	S1	0.339 (8.6)	0.339 (8.6)	0.205 (5.2)	0.268 (6.9)	0.378 (9.6)
	S2	0.433 (11.0)	0.441 (11.2)	0.291 (7.4)	0.358 (9.1)	0.433 (11.0)
	S3	0.551 (14.0)	0.559 (14.2)	0.327 (8.3)	0.461 (11.7)	0.520 (13.2)
	S4	0.591 (15.0)	0.614 (15.6)	0.376 (9.6)	0.508 (12.9)	0.551 (14.0)
	S5	0.669 (17.0)	0.701 (17.8)	0.433 (11.0)	0.591 (15.0)	0.630 (16.0)
	SH6A	0.925 (23.5)	0.957 (24.3)	0.402 (10.2)	0.843 (21.4)	0.748 (19.0)
	SHC7	1.000 (25.4)	1.213 (30.8)	0.465 (11.8)	1.100 (27.94)	0.915 (23.24)
"T" TH	T1	0.339 (8.6)	0.339 (8.6)	0.201 (5.1)	0.250 (6.35)	0.250 (6.35)
	T2	0.433 (11.0)	0.441 (11.2)	0.280 (7.1)	0.300 (7.62)	0.300 (7.62)
	T3	0.551 (14.0)	0.559 (14.2)	0.311 (7.9)	0.375 (9.52)	0.375 (9.52)
	T4	0.591 (15.0)	0.614 (15.6)	0.358 (9.1)	0.300 (7.62)	0.500 (12.7)
	TH6A	0.925 (23.5)	0.957 (24.3)	0.386 (9.8)	0.650 (16.51)	0.800 (20.32)

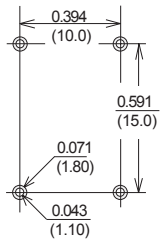
Type SH150F - Flat Mount - Size F2



Schematic



Suggested Board Layout (Top Side View)



Mounting Style	Size Code	Dimensions - Inches ±0.01 (mm ±0.25)			
		C	D	E	X = Coil O.D. +
"C" Vertical Clip Mount	C1	0.580 (14.73)	0.340 (8.64)	0.220 (5.58)	0.110 (2.80)
	C2	0.650 (16.5)	0.449 (11.4)	0.299 (7.60)	0.110 (2.80)
	C3	0.827 (21.0)	0.449 (11.4)	0.299 (7.60)	0.110 (2.80)
	C4	0.949 ((24.1)	0.598 (15.2)	0.449 (11.4)	0.110 (2.80)
	C5	1.252 (31.8)	0.701 (17.8)	0.500 (12.7)	0.130 (3.30)

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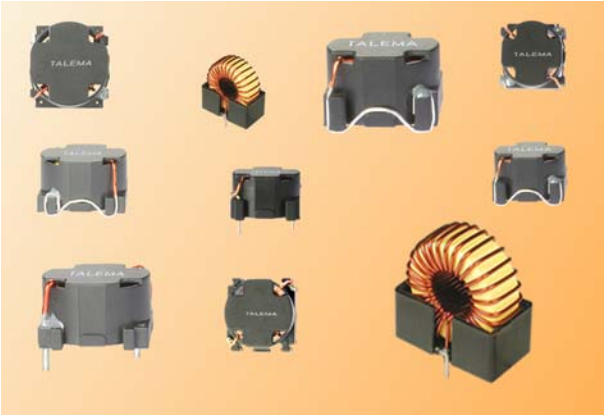
SH260 Series • Inductors for National's 260kHz Simple Switcher™

Compatible with National Semiconductor's Simple Switcher™
Part Numbers LM267X-L41 and LM267X-L45 through LM267X-L50



Features

- High energy storage with minimum saturation
- High stability from no load to full load
- Available in both SMD and THT versions
- Manufactured in ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Meets lead free reflow level J-STD-020C
- Fully RoHS & REACH Compliant

Electrical Specifications @25°C

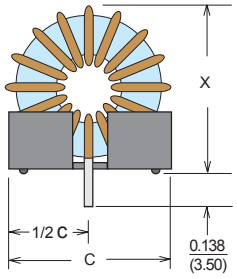
Test frequency: Inductance measured @20KHz / 10mV
Test voltage between windings: 500Vrms
Operating temperature range: -40°C to +125°C
Climatic Category: IEC68-1 40/125/56

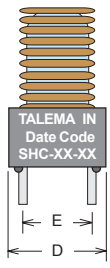
Part Number	National Part Number	Rated Current (I_{DC})	Inductance (µH) ±20%	ET_{OP} (V-µSec) Max. @ 260kHz	DCR Nominal (mOhm)	Package Size	
						Package Code	Lead Dia. (mm)
SH260C-4.9-23	LM267X-L41	4.9	22.8	23.3	36	C3	0.80
SH260C-4.3-10	LM267X-L45	4.3	10.2	10.0	26	C1	0.75
SH260C-5.0-15	LM267X-L46	5.0	14.8	17.0	23	C2	0.80
SH260C-5.0-10	LM267X-L47	5.0	10	13.0	25	C2	0.75
SH260C-5.0-50	LM267X-L48	5.0	50	40.0	50	C4	0.90
SH260C-5.0-33	LM267X-L49	5.0	33	36.0	47	C4	0.80
SH260C-5.0-23	LM267X-L50	5.0	23	24.0	26	C3	0.80
SH260S-4.9-23	LM267X-L41	4.9	22.8	23.3	36	SH6A	-
SH260S-4.3-10	LM267X-L45	4.3	10	10.0	26	S4	-
SH260S-5.0-15	LM267X-L46	5.0	15	17.0	27	S5	-
SH260S-5.0-10	LM267X-L47	5.0	11	13.0	25	S5	-
SH260S-5.0-50	LM267X-L48	5.0	52*	40.0	25	SHC7	-
SH260S-5.0-33	LM267X-L49	5.0	36*	36.0	19	SHC7	-
SH260S-5.0-23	LM267X-L50	5.0	24.7*	24.0	13	SHC7	-
SH260T-4.9-23	LM267X-L41	4.9	22.8	23.3	36	TH6A	-
SH260T-4.3-10	LM267X-L45	4.3	10	10.0	26	T4	-
SH260T-5.0-15	LM267X-L46	5.0	15	17.0	27	F2	-
SH260T-5.0-10	LM267X-L47	5.0	11	13.0	25	F2	-

* Note: Series connection with pins 2 - 4 connected

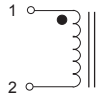
Type SH260C - Clip Mount

Part Number	Size Code	Dimensions - Inches ±0.01 (mm ±0.25)				
		C	D	E	Coil OD	X = Coil OD +
SH260C-4.3-10	C1	0.580 (14.73)	0.340 (8.64)	0.220 (5.58)	0.605 (15.40)	0.110 (2.80)
SH260C-5.0-15	C2	0.650 (16.50)	0.449 (11.40)	0.299 (7.60)	0.640 (16.26)	0.110 (2.80)
SH260-5.0-10	C2	0.650 (16.50)	0.449 (11.40)	0.299 (7.60)	0.590 (15.00)	0.110 (2.80)
SH260C-4.9-23 SH260C-5.0-23	C3	0.827 (21.00)	0.449 (11.40)	0.299 (7.60)	0.840 (21.34)	0.110 (2.80)
SH260C-5.0-50 SH260C-5.0-33	C4	0.949 (24.10)	0.598 (15.20)	0.449 (11.40)	1.240 (31.50)	0.110 (2.80)

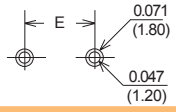




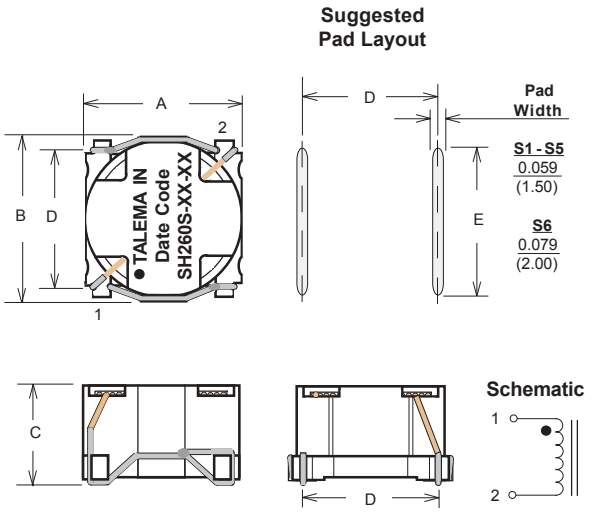
Schematic



Suggested Pad Layout

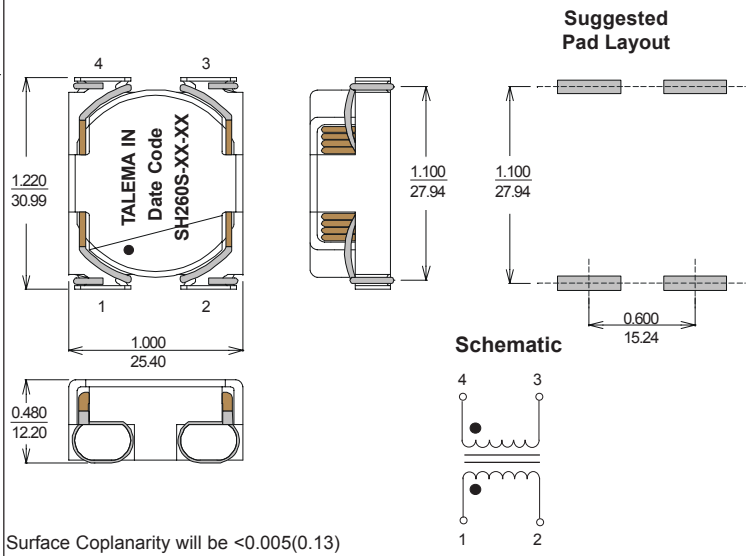


Type S4, S5, SH6A - Surface Mount



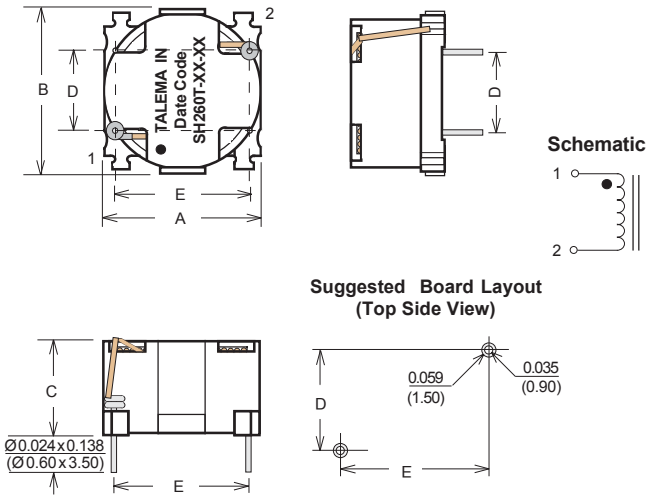
Surface Coplanarity will be <0.005(0.13)

Type SHC7 - Surface Mount

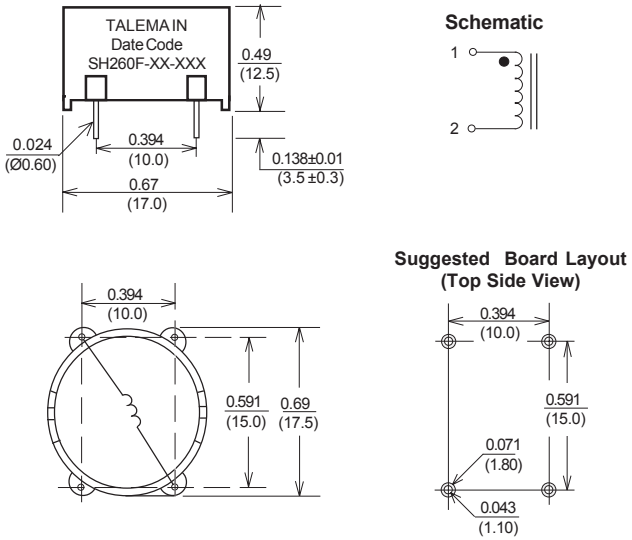


Surface Coplanarity will be <0.005(0.13)

Type T4 & TH6A - Through Hole Mount



Type SH260F - Flat Mount - Size F2



Mounting Style	Size Code	Dimensions - Inches ±0.010 (mm ±0.25)				
		A	B	C	D	E
"S" SMD	S4	0.591 (15.0)	0.614 (15.6)	0.394 (10.0)	0.508 (12.9)	0.551 (14.0)
	S5	0.669 (17.0)	0.701 (17.8)	0.441 (11.2)	0.591 (15.0)	0.630 (16.0)
	SH6A	0.925 (23.5)	0.957 (24.3)	0.417 (10.6)	0.827 (21.0)	0.748 (19.0)
"T" THT	T4	0.591 (15.0)	0.614 (15.6)	0.358 (9.10)	0.300 (7.62)	0.500 (12.70)
	TH6A	0.925 (23.5)	0.957 (24.3)	0.386 (9.80)	0.650 (16.51)	0.800 (20.32)

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SC Series • Low Profile Power Inductors

Features

- Operating frequency upto 1MHz
- High energy storage with minimum saturation
- High stability from no load to full load
- Pick and place compatible
- Designed as 1:1 Coupled Inductor (Series or Parallel) or as 1:1 Isolation Transformer
- Manufactured in an ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Meets lead free reflow level J-STD-020C
- Fully RoHS & REACH Compliant

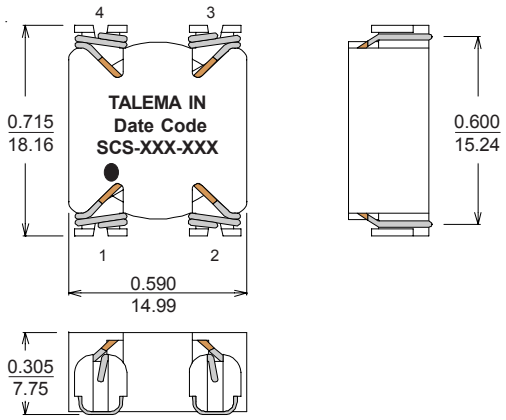
Electrical Specifications @25°C

Test frequency: Inductance measured @10KHz / 10mV
Test Voltage between windings: 500Vrms
Operating Temperature: -40°C to +130°C
Climatic category: IEC68-1 40/130/56

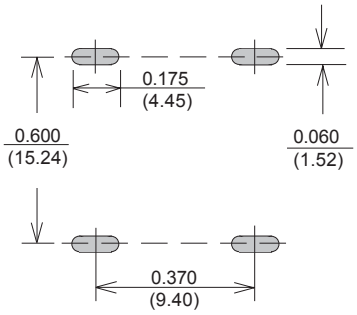
Part Number	Parallel Connected					Series Connected					Energy Storage (µJ) [2]
	Rated Current (I_{DC})	L_N (µH) @ I rated	L_O (µH) ±20% No Load	DCR Ohm	ET (V-µsec)	Rated Current (I_{DC})	L_N (µH) @ I rated	L_O (µH) ±20% No Load	DCR mOhm	ET (V-µsec)	
SCS-14.4-1.5	14.40	1.5	2.2	4.4	4.8	7.20	6.0	8.8	17.6	9.6	159.0
SCS-11.2-2.4	11.20	2.4	3.5	6.5	6.0	5.60	9.6	14.0	28.6	12.0	152.8
SCS-8.2-4.2	8.20	4.2	5.9	10.5	7.9	4.10	16.8	23.6	42.0	15.8	142.6
SCS-6.8-5.8	6.80	5.8	7.9	15.0	9.1	3.40	23.2	31.6	60.0	18.2	133.8
SCS-5.7-7.6	5.70	7.6	10.1	21.0	10.3	2.85	30.4	40.4	84.0	20.6	124.2
SCS-5.4-12.1	5.40	12.1	18.5	23.3	13.9	2.70	48.4	74.0	93.2	27.8	176.6
SCS-4.4-18.0	4.40	18.0	27.4	38.2	16.5	2.20	72.0	109.6	152.8	33.0	174.3
SCS-3.54-27.0	3.54	27.0	40.5	53.2	20.5	1.77	108.0	162.0	212.8	41.0	169.1
SCS-3.0-34.8	3.00	34.8	50.5	74.0	22.5	1.50	139.2	202.0	296.0	45.0	156.5

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

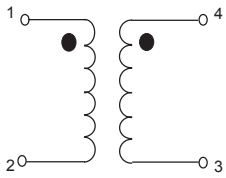
Dimensions



Suggested Pad Layout



Schematic



Dimensions: Inches (Millimeters)
Tolerance: ±0.010 (0.25) unless specified otherwise
Surface Coplanarity will be <0.005 (0.13)

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Regional Locations - Design, Manufacturing, Sales & Marketing

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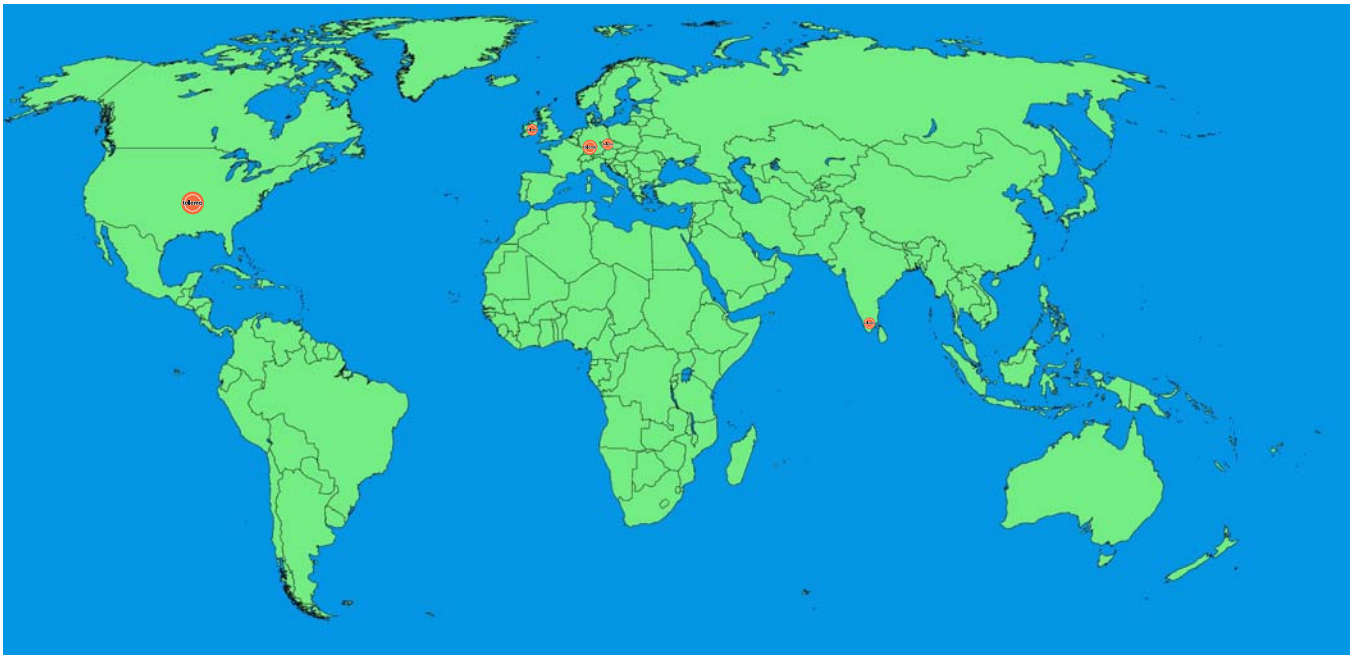
Locations of Talema Group Regional Offices



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Summary
TOTAL PROGRAM

RoHS REACH

06/19