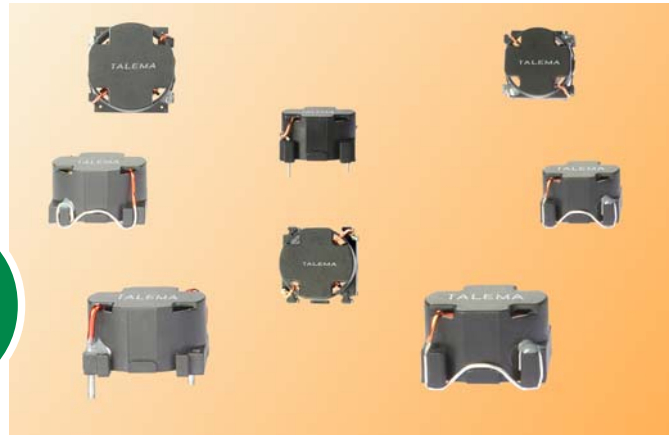




## SL Series Toroidal Power Inductors

### Features

- Operating frequency to 1 MHz
- High energy storage with minimum saturation
- High stability from no load to full load
- Available in both SMD and TH versions
- Manufactured in ISO-9001:2000, TS-16949:2002 and ISO-14001:2004 certified Talema facility
- Meets lead free reflow level J-STD-020C
- Fully RoHS compliant



### Electrical Specifications @ 25°C

Test voltage between windings: 500 Vrms

Operating temperature range: -40°C to +130°C

Climatic Category: IEC68-1 40/125/56

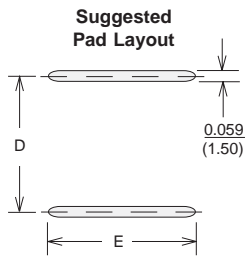
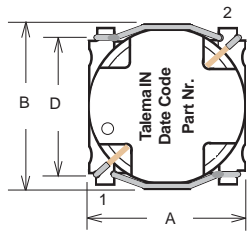
Test frequency: Inductance measured @ 10kHz / 10mV

Part Number	Rated Current (I <sub>DC</sub> )	L <sub>N</sub> (μH) @ I rated ±20%	L <sub>O</sub> (μH) No Load ±20%	DCR (mOhms) Nominal	Energy Storage (μJ)	Package	
						"SMD"	"THT"
SL__-3.4-1.04	3.4	1.04	1.1	9.6	6	S1	T1
SL__-1.4-6.5	1.4	6.5	7.0	62.0	6	S1	T1
SL__-1.0-18.0	1.0	18.0	20.3	117.7	9	S1	T1
SL__-4.8-4.0	4.8	4.0	4.5	17.0	44	S2	T2
SL__-2.8-9.8	2.8	9.8	11.0	41.1	37	S2	T2
SL__-1.4-30.6	1.4	30.6	33.6	144.3	29	S2	T2
SL__-0.94-114	0.94	114	131.7	411.2	50	S2	T2
SL__-8.0-2.6	8.0	2.6	3.1	7.8	80	S3	T3
SL__-5.4-5.4	5.4	5.4	6.3	17.5	74	S3	T3
SL__-2.7-16.9	2.7	16.9	19.2	68.5	59	S3	T3
SL__-1.3-59	1.3	59	65.7	288.8	49	S3	T3
SL__-0.9-193	0.9	193	225.2	534.7	78	S3	T3
SL__-0.72-384	0.72	384	461	765.0	99	S3	T3
SL__-7.8-5.0	7.8	5.0	5.8	10.9	149	S4	T4
SL__-5.5-9.0	5.5	9.0	10.4	26.1	136	S4	T4
SL__-2.7-31	2.7	31	34.8	93.8	106	S4	T4
SL__-0.74-651	0.74	651	771.3	1267.2	177	S4	T4
SL__-14.3-0.83	14.3	0.83	1.2	2.3	83	SH3	--
SL__-11.5-1.4	11.5	1.4	1.7	3.2	87	SH3	--
SL__-13.9-1.8	13.9	1.8	2.2	3.3	162	SH4	--
SL__-11.4-2.6	11.4	2.6	3.0	4.9	162	SH4	--
SL__-7.2-9.9	7.2	9.9	11.8	15.1	241	S5	T5
SL__-5.1-16.4	5.1	16.4	19.1	27.3	209	S5	T5
SL__-2.6-50.3	2.6	50.3	56.9	117.2	169	S5	T5
SL__-0.71-1081	0.71	1081	1295	1616.1	270	S5	T5
SL__-12.4-3.7	12.4	3.7	4.5	5.9	269	SH5	--
SL__-10.4-5.2	10.4	5.2	6.3	7.1	254	SH5	--
SL__-15.4-5.6	15.4	5.6	7.0	5.5	617	SH6A	TH6A
SL__-10.9-10	10.9	10.0	12.2	11.3	558	SH6A	TH6A
<b>Coupled Inductors</b>							
SLC__-1.1-45.7	1.1	45.7	49.2	280.7	26	SC3	TC3
SLC__-2.7-23.6	2.7	23.6	26.0	81.0	80	SC4	--
SLC__-6.4-4.1	6.4	4.1	4.5	19.0	82	SC5	TC5
SLC__-23.8-0.56	23.8	0.56	0.6	1.2	150	SHC4	--
SLC__-21-1.4	21.0	1.4	1.8	2.1	243	SHC5	--
SLC__-22.4-2.3	22.4	2.3	2.8	3.1	527	SHC6	THC6

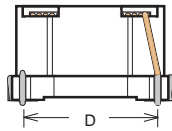
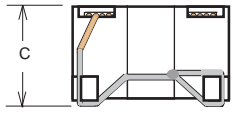
**Note:** The inductance values listed above are based on a 55°C temperature rise and 25°C ambient temperature.

## Mounting Styles • SL Series Toroidal Power Inductors

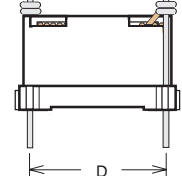
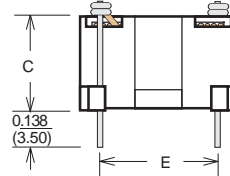
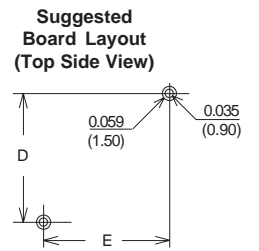
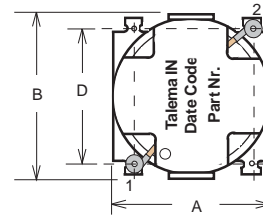
### Type S1 - S5



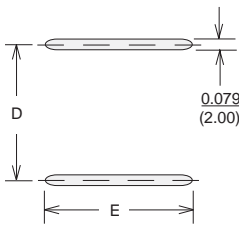
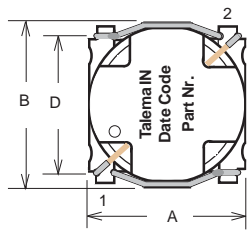
**Schematic**



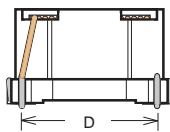
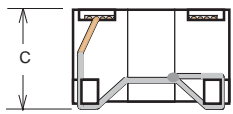
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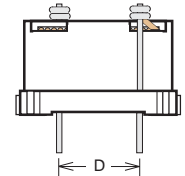
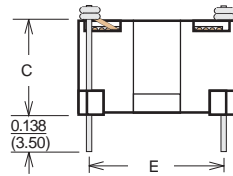
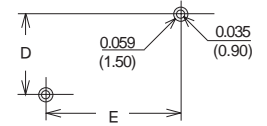
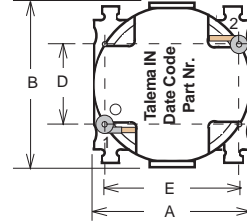
### Type SH3 - SH6A



**Schematic**

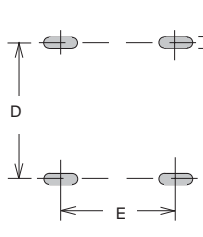
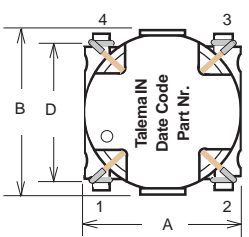


### Type TH6A

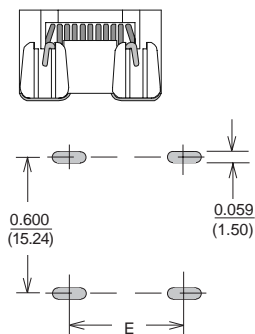
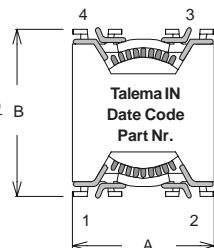


## Coupling Transformers

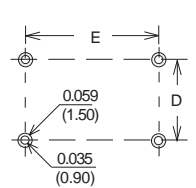
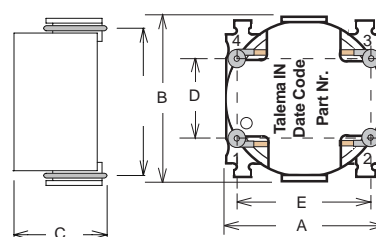
### Type SC3 - SC5



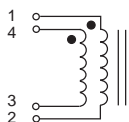
### Type SC4



### Type TC3 - TC5



**Schematic**



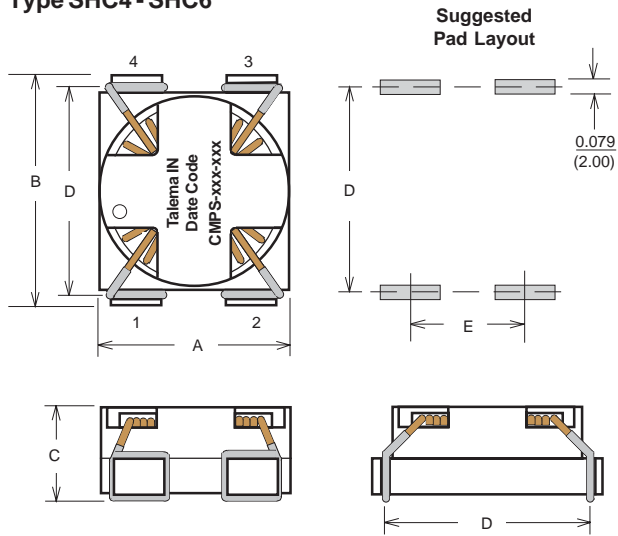


# Mounting Styles • SL Series Toroidal Power Inductors

## Coupling Transformers

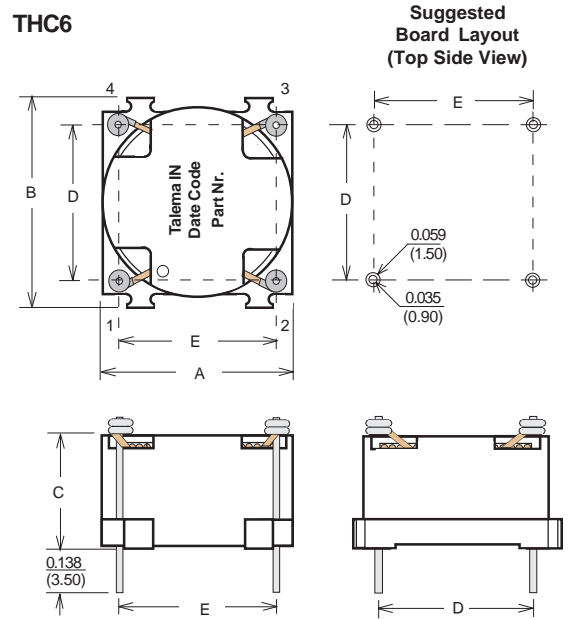
### Surface Mount Style

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)	0.560 (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)					Lead Ø
		A	B	C	D	E	
"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)	0.026 (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)
	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)
"TC"	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)
	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)