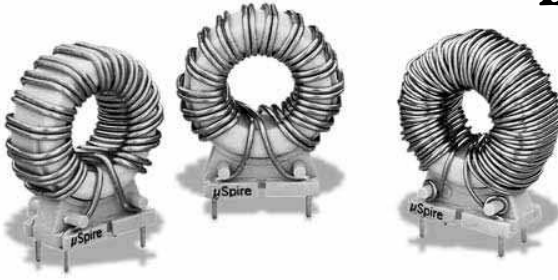


Energy Storage Inductors - ESI Series

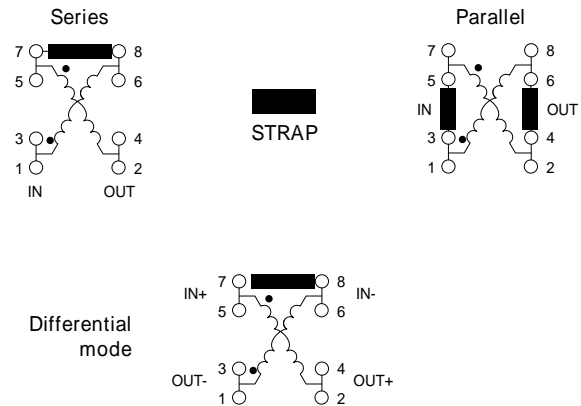


- Energy storage, smoothing, filtering
- Low drop in inductance under load
- Low leakage and high efficiency
- Thermoplastic materials compliant with UL94-V0
- Frequency range up to 200 kHz
- Operating temperature range: -40 °C to +125 °C
- Possibility to use differential mode without trap

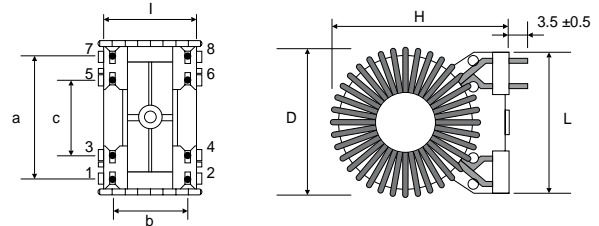
Electrical Data

ID Code	In Adc	Ln μH	Lo μH	Rdc Ω	Pin Ø mm	S series
500μJ						
ESI10 M37 1V	1.5	372	550	140	0.71	S
ESI10 M23 1V	2	230	348	112	0.71	S
ESI10 M14 1V	2.5	140	208	84	0.71	S
ESI10 M37 1V	3	93	137	35	0.71	P
ESI10 M10 1V	3	100	150	60	0.8	S
ESI10 45K 1V	4	45	64	26	1	S
ESI10 M23 1V	4	57	87	28	0.71	P
ESI10 M14 1V	5	35	52	21	0.71	P
ESI10 M10 1V	6	25	38	15	0.80	P
ESI10 45K 1V	8	11	16	6	1	P
1500μJ						
ESI20 M72 1V	2	720	1140	192	0.80	S
ESI20 M47 1V	2.5	475	755	136	0.85	S
ESI20 M63 1V	2.8	632	1300	200	0.8	S
ESI20 M31 1V	3	310	476	78	1	S
ESI20 M42 1V	3.5	420	875	130	0.90	S
ESI20 M17 1V	4	170	262	48	1.12	S
ESI20 M72 1V	4	180	285	48	0.8	P
ESI20 M25 1V	4.5	254	540	84	1	S
ESI20 M47 1V	5	119	190	34	0.85	P
ESI20 M63 1V	5.6	158	325	50	0.80	P
ESI20 M31 1V	6	77	120	19	1	P
ESI20 M14 1V	6	144	310	52	1.12	S
ESI20 M42 1V	7	105	219	32	0.9	P
ESI20 M17 1V	8	42	66	12	1.12	P
ESI20 M25 1V	9	63	135	21	1	P
ESI20 M14 1V	12	36	77	13	1.12	P
2500μJ						
ESI30 80K 1V	6	80	128	21	1	S
ESI30 48K 1V	7.5	48	84	13	1.12	S
ESI30 70K 1V	8.5	70	144	17	1	S
ESI30 46K 1V	10.5	46	96	14	1.12	S
ESI30 80K 1V	12	20	32	5	1	P
ESI30 48K 1V	15	12	20	3	1.12	P
ESI30 70K 1V	17	17.5	36	4	1	P
ESI30 46K 1V	21	11.5	24	3.5	1.12	P

Connections



Typical Dimensions (mm)



ID Code	L	I	H	D	a	b	c
ESI10	19.1	14	31.5	28	15.24	7.62	5.08
ESI20	29.1	22	40	36	25.4	15.24	15.24
ESI30	29.1	24	42	36	25.4	15.24	15.24

Symbols

- S = two single windings in series
P = two single windings in parallel
In = Rated DC current
Ln = Inductance under DC bias by In
Lo = Inductance without DC bias
Rdc = DC resistance of windings
Pin Ø = Diameter of connection pin