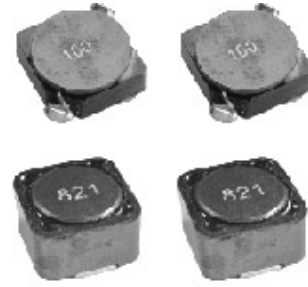
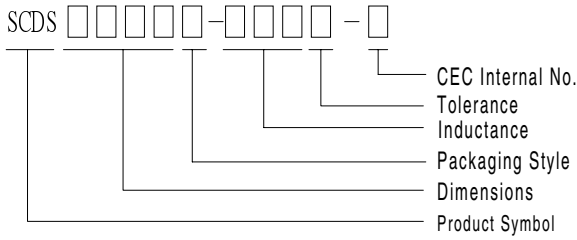
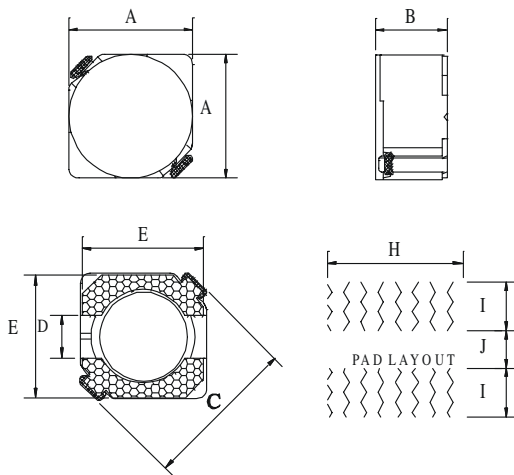


## Product Identification



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## Shapes and Dimensions



ITEM	A	B	C	D	E	H	I	J
5D18	5.7 ± 0.3	2.0 Max	8.2 Max	2.0	5.5	6.3	2.15	2.0
5D28	5.7 ± 0.3	3.0 Max	8.2 Max	2.0	5.5	6.3	2.15	2.0
6D28	6.7 ± 0.3	3.0 Max	9.5 Max	2.0	6.5	7.3	2.65	2.0
6D38	6.7 ± 0.3	4.0 Max	9.5 Max	2.0	6.5	7.3	2.65	2.0

## Features

- Available in magnetically shielded.
- Low DC resistance.
- Suitable for large currents.
- Ideal for a variety of DC – DC converter inductor applications.
- Available on tape and reel for auto surface mounting.

## Applications

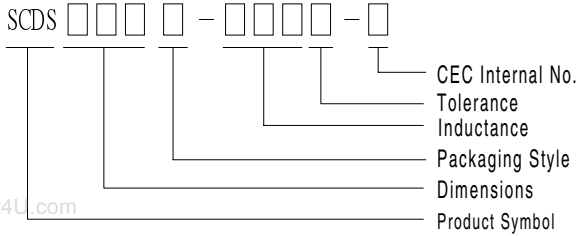
- Power supply for VTRs.
- OA equipment.
- LCD televisions.
- Notebook PCs.
- Portable communication equipment.
- DC / DC converters, etc.

**Electrical Characteristics**

Stamp	Inductance (uH)	DC Resistance (mΩ) Max				Inductance decrease Current (Amp) Max			
		5D18	5D28	6D28	6D38	5D18	5D28	6D28	6D38
2R6M	2.6		18				2.60		
3R0M	3.0		24	24			2.40	3.00	
3R3M	3.3				20				3.50
3R9M	3.9			27				2.60	
4R1M	4.1	57				1.95			
4R2M	4.2		31				2.20		
5R0M	5.0			31	24			2.40	2.90
5R3M	5.3		38				1.90		
5R4M	5.4	76				1.60			
6R0M	6.0			35				2.25	
6R2M	6.2	96	45		27	1.40	1.80		2.50
7R3M	7.3			54				2.10	
7R4M	7.4				31				2.30
8R2M	8.2		53				1.60		
8R6M	8.6			58				1.85	
8R7M	8.7				34				2.20
8R9M	8.9	116				1.25			
100M	10	124	65	65	38	1.20	1.30	1.70	2.00
120M	12	153	76	70	53	1.10	1.20	1.55	1.70
150M	15	196	103	84	57	0.97	1.10	1.40	1.60
180M	18	210	110	95	92	0.85	1.00	1.32	1.50
220M	22	290	122	128	96	0.80	0.90	1.20	1.30
270M	27	330	175	142	109	0.75	0.85	1.05	1.20
330M	33	386	189	165	124	0.65	0.75	0.97	1.10
390M	39	520	212	210	138	0.57	0.70	0.86	1.00
470M	47	595	260	238	155	0.54	0.62	0.80	0.95
560M	56	665	305	277	202	0.50	0.58	0.73	0.85
680M	68	840	355	304	234	0.43	0.52	0.65	0.75
820M	82	978	463	390	324	0.41	0.46	0.60	0.70
101M	100	1200	520	535	358	0.36	0.42	0.54	0.65

- Inductance range : 2.6uH to 100uH.
- Test Frequency : 10kHz 1.0V.
- Current rating : Base on the inductance is 75% more than its initial value and temperature rise  $\Delta t = 40^{\circ}\text{C}$  lower.
- Operating temperature :  $-20^{\circ}\text{C}$  to  $80^{\circ}\text{C}$ .
- Soldering Heat :  $230^{\circ}\text{C}$  10 sec after  $150^{\circ}\text{C}$  preheat cycle for 4 min.
- Test equipment : L tested by HP4284A Precision LCR meter.  
DCR tested by Milli - ohm meter.

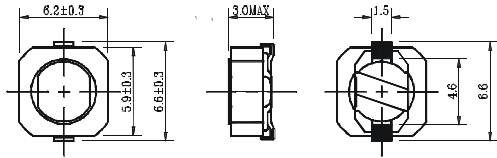
## Product Identification



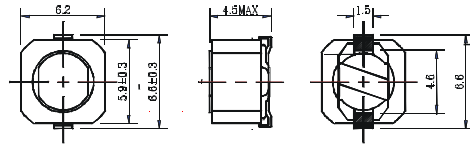
## Shapes and Dimensions

SMT power inductor are formed by directly connected ferrite electrode with magnetic shielding.

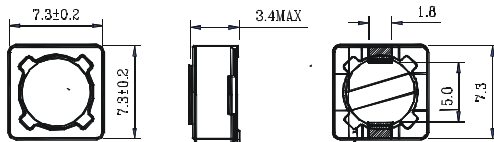
### SCDS62B (3.3μH ~ 330μH)



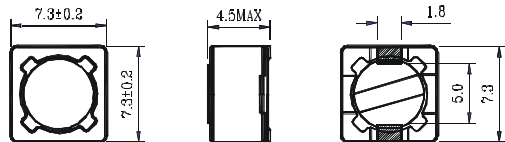
### SCDS64B (10μH ~ 1000μH)



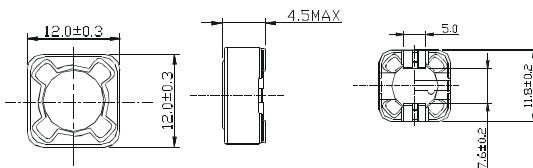
### SCDS73 (10μH ~ 1.0mH)



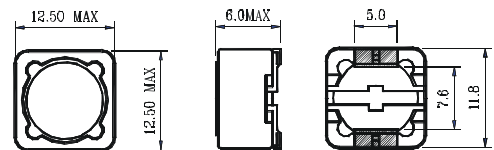
### SCDS74 (10μH ~ 1.0mH)



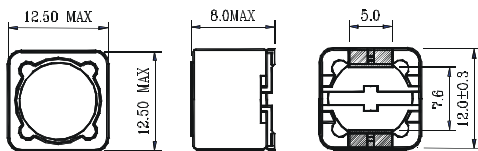
### SCDS124 (3.9μH ~ 330mH)



### SCDS125 (10μH ~ 1.0mH)



### SCDS127 (10μH ~ 47mH)



## Standard Specifications

Stamp	Inductance (μH)	DCR(Ω) Max						IDC(A) Min							
		SCDS 62B	SCDS 64B	SCDS 73	SCDS 74	SCDS 124	SCDS 125	SCDS 127	SCDS 62B	SCDS 64B	SCDS 73	SCDS 74	SCDS 124	SCDS 125	SCDS 127
1R2N	1.2	-	-	-	-	-	-	7.0m	-	-	-	-	-	-	9.80
2R4N	2.4	-	-	-	-	-	-	11.5m	-	-	-	-	-	-	8.00
3R3N	3.3 *	68m	-	-	-	-	-	-	1.94	-	-	-	-	-	-
3R5N	3.5	-	-	-	-	-	-	13.5m	-	-	-	-	-	-	7.50
3R9N	3.9	-	-	-	-	15m	-	-	-	-	-	-	6.50	-	-
4R7N	4.7 *	80m	-	-	-	18m	-	15.8m	1.63	-	-	-	5.70	-	6.80
5R5N	5.5 *	96m	-	-	-	-	-	-	1.40	-	-	-	-	-	-
6R1N	6.1	-	-	-	-	-	-	17.6m	-	-	-	-	-	-	6.60
6R8N	6.8 *	0.10	-	-	-	23m	-	-	1.33	-	-	-	4.90	-	-
7R6N	7.6	-	-	-	-	-	-	20.0m	-	-	-	-	-	-	5.90
8R2N	8.2 *	0.10	-	-	-	-	-	20.0m	1.14	-	-	-	-	-	5.90
100M	10 **	0.15	0.12	72m	49m	28m	25m	21.6m	1.10	1.35	1.68	1.84	4.50	4.00	5.40
120M	12 **	0.20	0.13	98m	58m	38m	27m	24.3m	1.00	1.22	1.52	1.71	4.00	3.50	4.90
150M	15 **	0.23	0.18	0.13	81m	50m	30m	27.0m	0.90	1.11	1.33	1.47	3.20	3.30	4.50
180M	18 **	0.27	0.24	0.14	91m	57m	34m	39.2m	0.80	1.02	1.20	1.31	3.10	3.00	3.90
220M	22 **	0.34	0.27	0.19	0.11	66m	36m	43.2m	0.74	0.91	1.07	1.23	2.90	2.80	3.60
270M	27 **	0.38	0.30	0.21	0.15	80m	51m	45.9m	0.66	0.82	0.96	1.12	2.80	2.30	3.40
330M	33 **	0.45	0.33	0.24	0.17	97m	57m	64.8m	0.59	0.74	0.91	0.96	2.70	2.10	3.00
390M	39 **	0.49	0.37	0.32	0.23	0.132	68m	72.9m	0.54	0.69	0.77	0.91	2.10	2.00	2.75
470M	47 **	0.69	0.52	0.36	0.26	0.150	75m	0.10	0.50	0.62	0.76	0.88	1.90	1.80	2.50
560M	56 **	0.78	0.56	0.47	0.35	0.190	0.11	0.11	0.46	0.58	0.68	0.75	1.80	1.70	2.35
680M	68 **	1.07	0.63	0.52	0.38	0.220	0.12	0.14	0.42	0.51	0.61	0.69	1.50	1.50	2.10
820M	82 **	1.21	0.71	0.69	0.43	0.260	0.14	0.46	0.38	0.46	0.57	0.61	1.30	1.40	1.95
101M	100 ***	1.39	1.03	0.79	0.61	0.308	0.16	0.22	0.34	0.42	0.50	0.60	1.20	1.30	1.70
121M	120 ***	1.90	1.15	0.89	0.66	0.380	0.17	0.25	0.31	0.38	0.49	0.52	1.10	1.10	1.60
151M	150 ***	2.18	1.68	1.27	0.88	0.530	0.23	0.28	0.28	0.35	0.43	0.46	0.95	1.00	1.42
181M	180 ***	2.77	1.87	1.45	0.98	0.620	0.29	0.35	0.26	0.32	0.39	0.42	0.85	0.90	1.30
221M	220 ***	3.12	2.08	1.65	1.17	0.700	0.40	0.39	0.23	0.29	0.35	0.36	0.80	0.80	1.16
271M	270 ***	4.38	2.37	2.31	1.64	0.876	0.46	0.56	0.22	0.26	0.32	0.34	0.60	0.75	1.06
331M	330 ***	4.94	2.67	2.62	1.86	0.990	0.51	0.64	0.19	0.23	0.28	0.32	0.50	0.68	0.95
391M	390	-	2.94	2.94	2.85	-	0.69	0.70	-	0.22	0.26	0.29	-	0.65	0.88
471M	470	-	3.93	4.18	3.01	-	0.77	0.98	-	0.20	0.24	0.26	-	0.58	0.79
561M	560	-	5.43	4.67	3.62	-	0.86	1.07	-	0.18	0.22	0.23	-	0.54	0.93
681M	680	-	7.32	5.73	4.63	-	1.20	1.46	-	0.17	0.19	0.22	-	0.48	0.67
821M	820	-	8.24	6.54	5.20	-	1.34	1.64	-	0.15	0.18	0.20	-	0.43	0.60
102M	1000	-	9.26	9.44	6.00	-	1.53	1.82	-	0.14	0.16	0.18	-	0.40	0.55

Common measuring Freq.(L) : 1KHz/1V

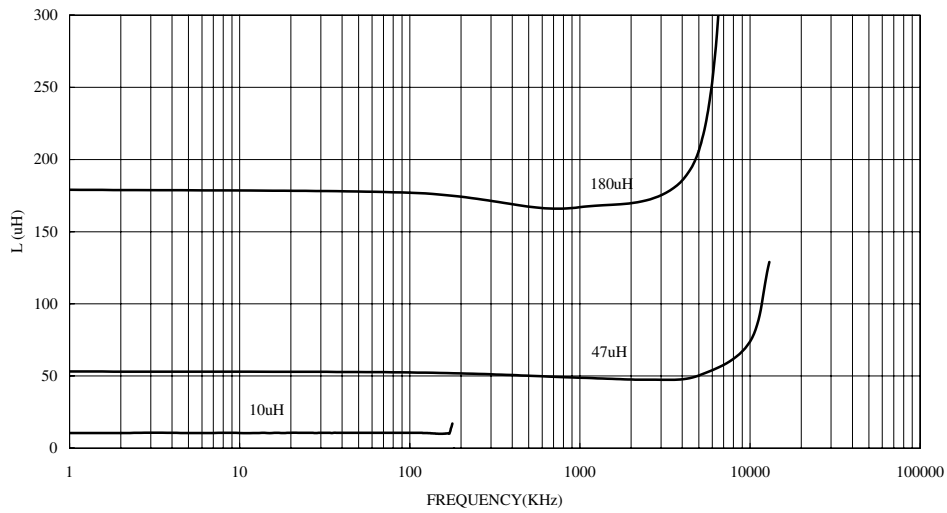
Specific Freq for **SCDS62B** : \* at 7.96MHz \*\* at 2.52MHz \*\*\* at 1KHz

Tolerance of Inductance: SCDS62B ±20%(M) SCDS125 ±20%(M)  
 SCDS64B ±20%(M) SCDS127  $\begin{matrix} +40 \\ -20 \end{matrix}$  % (N) ±20%(M)  
 SCDS73 ±20%(M)  
 SCDS74 ±20%(M)  
 SCDS124 ±20%(M)

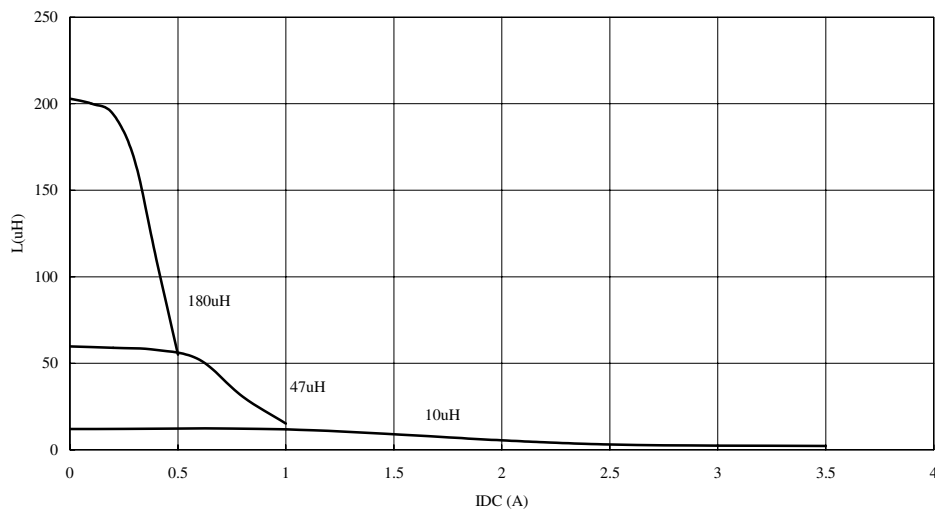
Inductance drop=35% typ at IDC

**Test Instruments : HP4291A Impedance / Material Analyzer**

**INDUCTANCE vs. FREQUENCY CHARACTERISTICS**

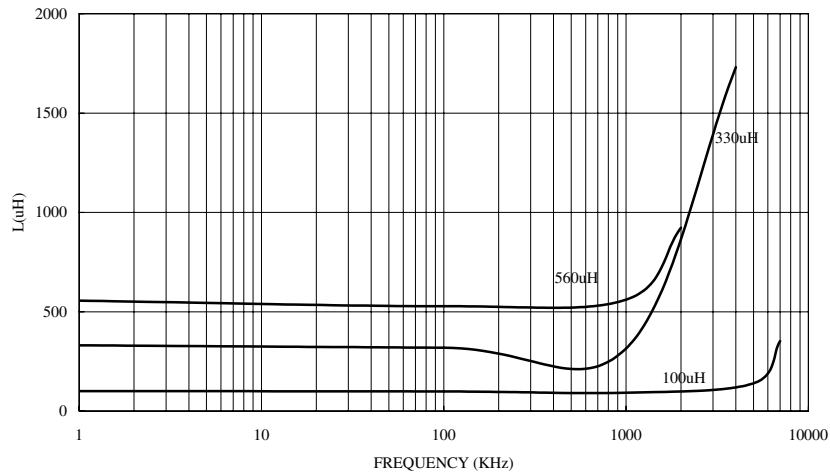


**INDUCTANCE vs. IDC CHARACTERISTICS**

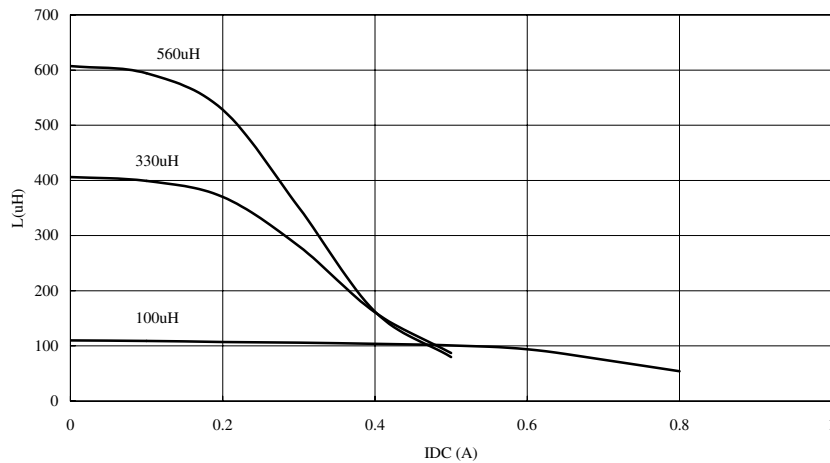


**Test Instruments :** HP4291A Impedance / Material Analyzer

**INDUCTANCE vs. FREQUENCY CHARACTERISTICS**

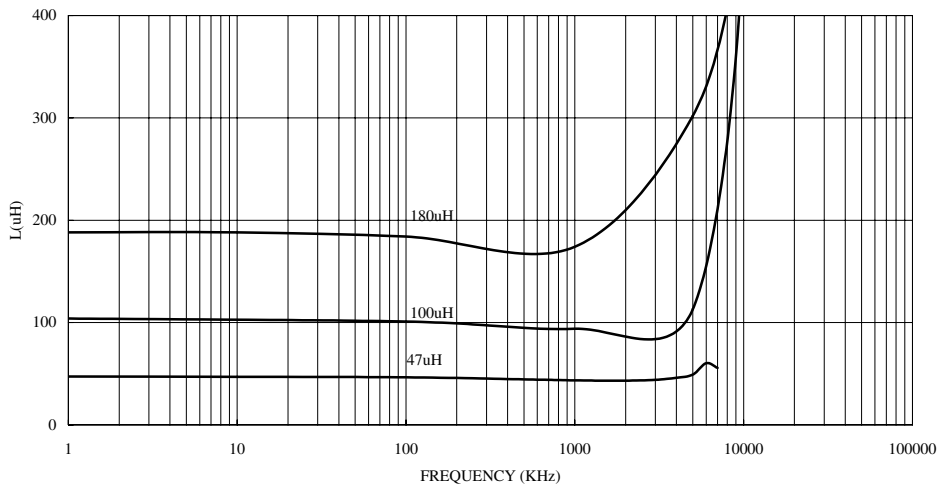


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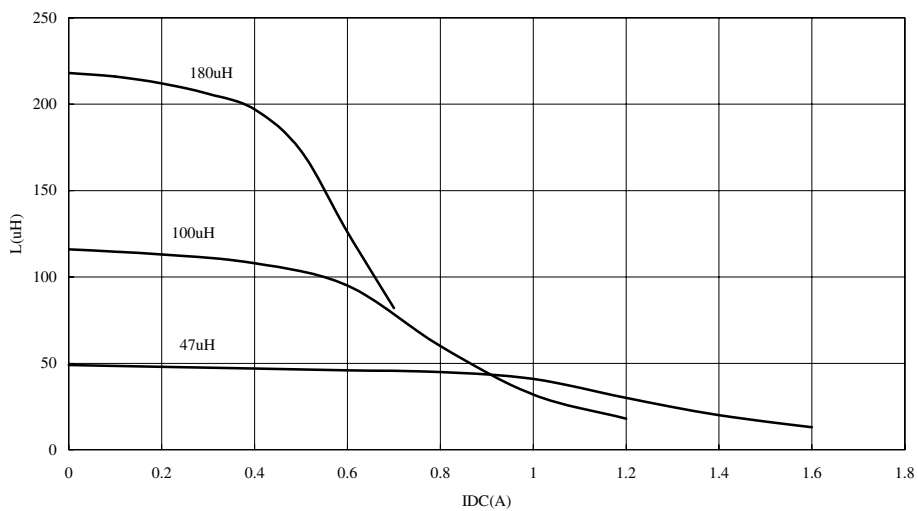


**Test Instruments : HP4291A Impedance / Material Analyzer**

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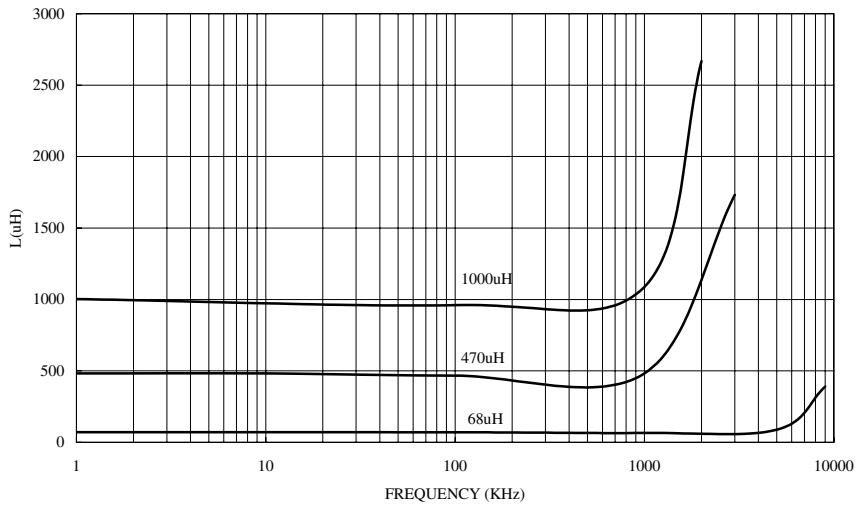


**INDUCTANCE vs. IDC CHARACTERISTICS**

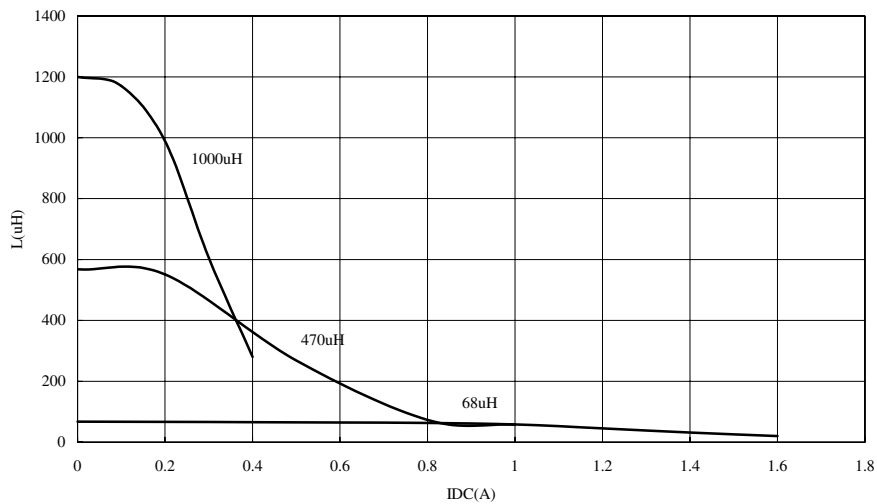


**Test Instruments :** HP4291A Impedance / Material Analyzer

**INDCUTANCE vs. FREQUENCY CHARACTERISTICS**



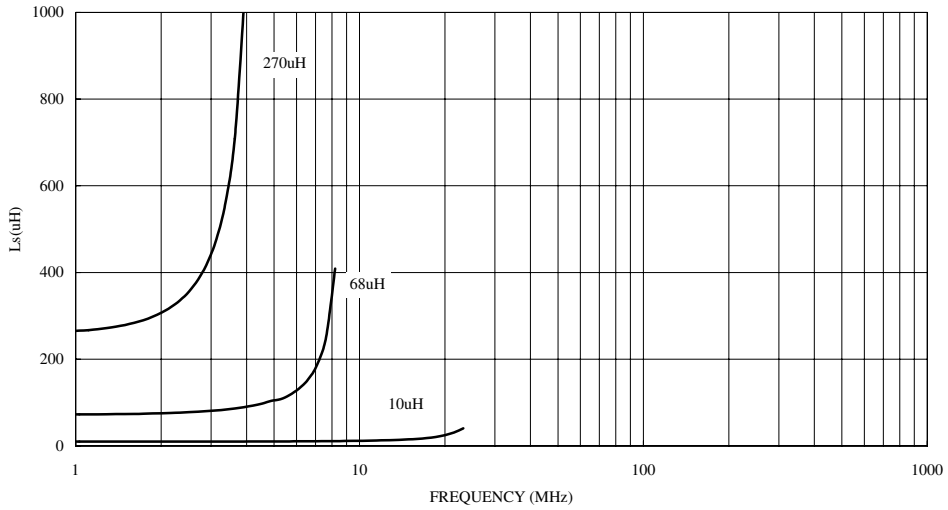
**INDUCTANCE vs. IDC CHARACTERISTICS**



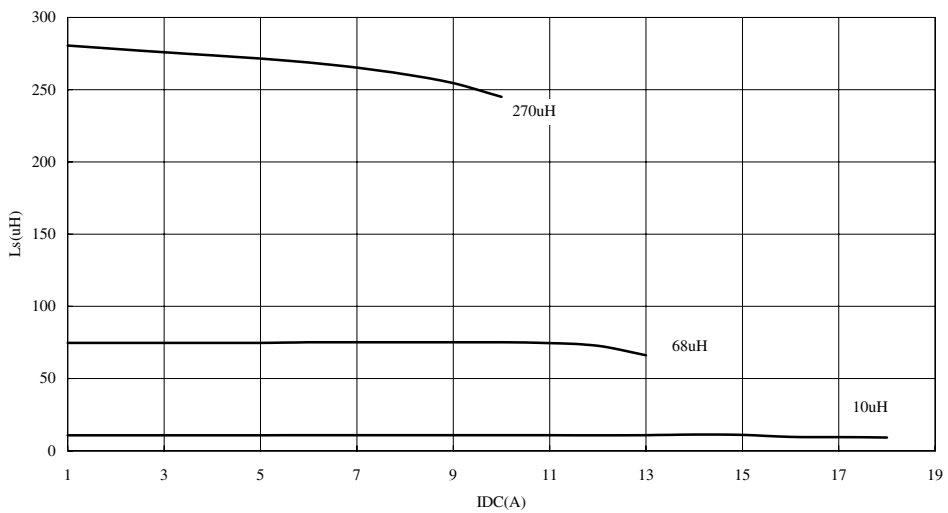


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**INDUCTANCE vs. FREQUENCY CHARACTERISTICS**

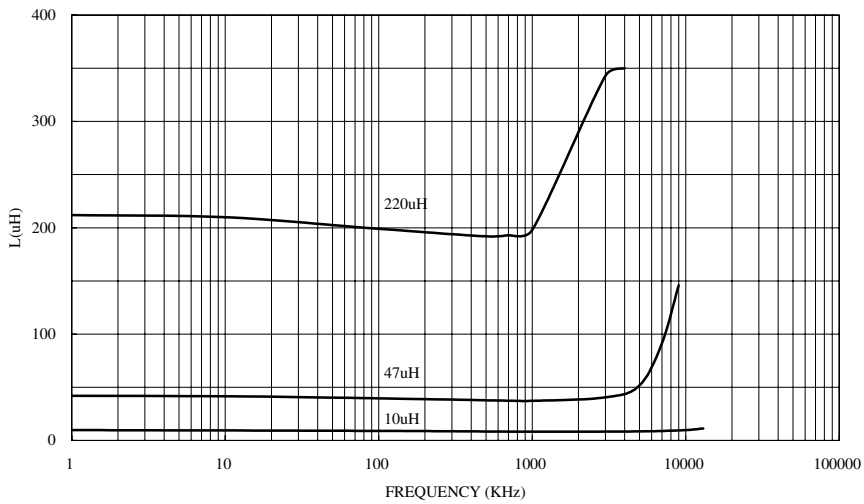


**INDUCTANCE vs. IDC CHARACTERISTICS**

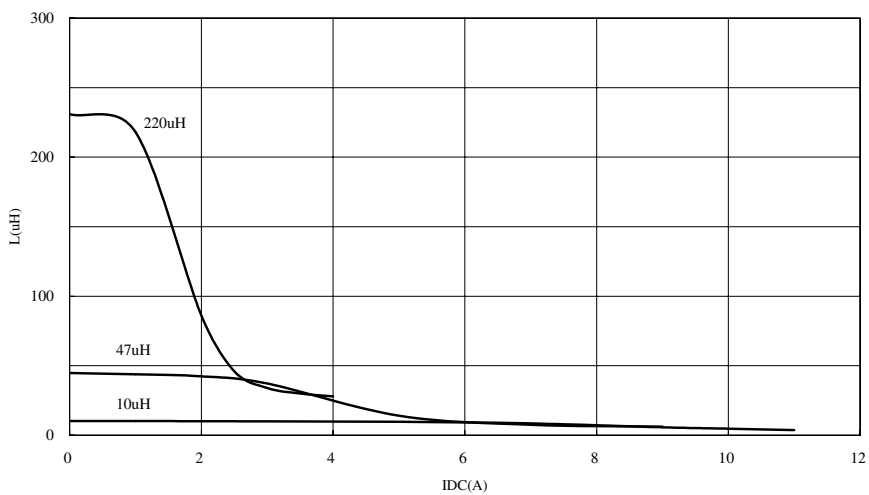


**Test Instruments** : HP4291A Impedance / Material Analyzer

**INDUCTANCE vs. FREQUENCY CHARACTERISTICS**

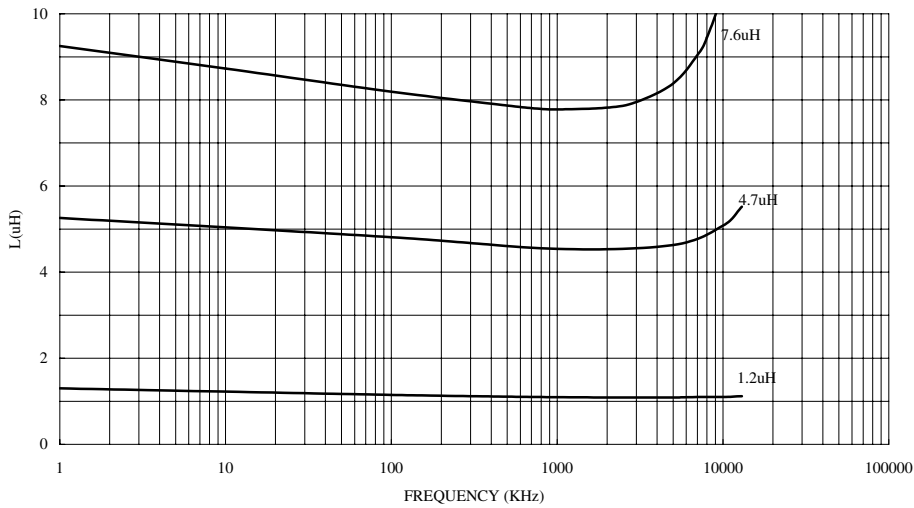


**INDUCTANCE vs. IDC CHARACTERISTICS**



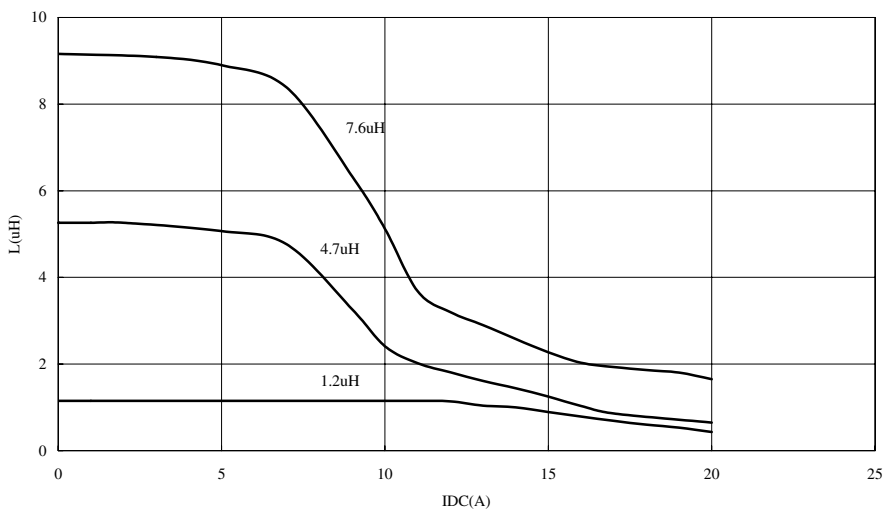
**Test Instruments** : HP4291A Impedance / Material Analyzer

**INDUCTANCE vs. FREQUENCY CHARACTERISTICS**

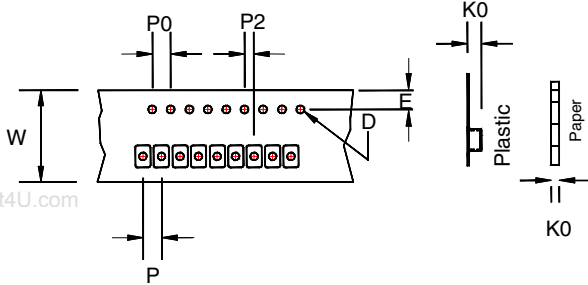


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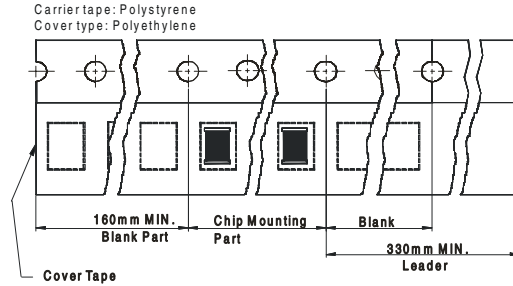
**INDUCTANCE vs. IDC CHARACTERISTICS**



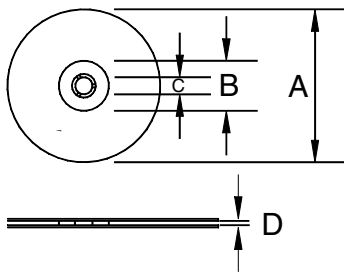
## Tape Dimensions



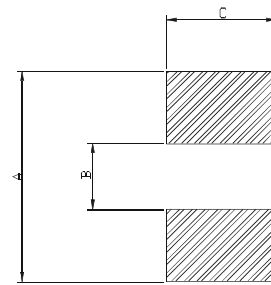
## Tape Material



## Reel Dimensions



## Recommended Pattern



Land Pattern

Dimensions in mm

TYPE	Tape Dimensions							Recommended Pattern			Reel Dimensions				Quantity PCS / REEL
	K0	D	E	W	P	P0	P2	A	B	C	A	B	C	D	
SCDS62B	3.4	1.55	1.75	16	12	4	2	8.1	4	2.5	330	100	13	17.4	1500
SCDS64B	4.9	1.55	1.75	16	12	4	2	8.1	4	2.5	330	100	13	17.4	1000
SCDS73T	3.6	1.55	1.75	16	12	4	2	8.8	4	2.8	330	100	13	17.4	1600
SCDS74T	5	1.55	1.75	16	12	4	2	8.8	4	2.8	330	100	13	17.4	1000
SCDS124T	5.7	1.55	1.75	24	16	4	2	13.3	6	6	330	100	13	24.4	600
SCDS125T	6.7	1.55	1.75	24	16	4	2	13.3	6	6	330	100	13	24.4	600
SCDS127T	8.7	1.55	1.75	24	16	4	2	13.5	6	6	330	100	13	24.4	500