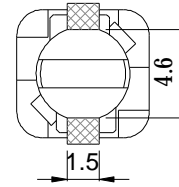
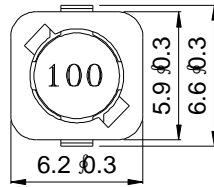
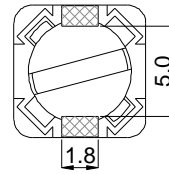
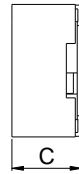
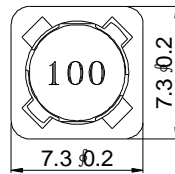


## MECHANICALS

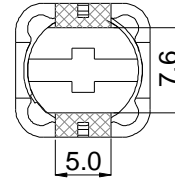
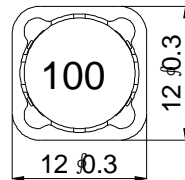
## CONSTRUCTION



1-1

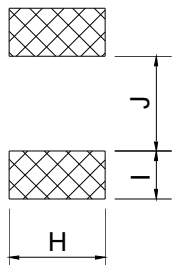


1-2



1-3

### I LAND PATTERN AND TYPE



Crsh type	Figure	C	H	I	J
0603	1-1	3.0 MAX.	1.9	1.4	4.6
0605	1-1	5.0 MAX.	1.9	1.4	4.6
0703	1-2	3.4 MAX.	2.2	1.5	4.8
0704	1-2	4.5 MAX.	2.2	1.5	4.8
1204	1-3	4.5 MAX.	5.4	2.8	7.0
1205	1-3	6.0 MAX.	5.4	2.8	7.0
1207	1-3	8.0 MAX.	5.4	2.8	7.0

### I FEATURE

Various high power inductor are Superior to be high saturation for surface mounting

### I APPLICATIONS

DC/DC converter ,power supply, Telecommunication equipment

### 特征

具備高功率、強飽和電流、低阻抗、小型貼裝型

### 應用

直流交換器，電腦液晶顯示器 遠程通話設備

## I PART NUMBERING SYSTEM (品名規定)

<u>S P R I</u>	<u>0 6</u> <u>0 3</u>	-	<u>1 0 0</u>	<u>K</u>
1	2		3	4
SHIELDED SMT POWER INDUCTORS	DIMENSIONS (长*高 DIM)		INDUTANCE 10*10 <sup>0</sup> =10	TOLERANCE J: ±5% K: ±10% L: ±15% M: ±20% P: ±25% N: ±30
闭磁路贴片式功率电感 (DR+RI 型磁芯)	尺寸		電感值	公差

## I ELECTRICAL SPECIFICATIONS

Parts No.	Inductance	SPRI0603			SPRI0605			SPRI0703			SPRI0704		
		Freq.	RDC	IDC	Freq.	RDC	IDC	Freq.	RDC	IDC	Freq.	RDC	IDC
		Hz	Ω	A	Hz	Ω	A	Hz	Ω	A	Hz	mΩ	A
100	10uH	1 K	0.15	1.1	1 K	0.12	1.35	1 K	72m	1.68	1 K	49m	1.84
120	12uH	1 K	0.2	1	1 K	0.13	1.22	1 K	98m	1.52	1 K	58m	1.71
150	15uH	1 K	0.23	0.9	1 K	0.18	1.11	1 K	0.13	1.33	1 K	81m	1.47
180	18uH	1 K	0.27	0.8	1 K	0.24	1.02	1 K	0.14	1.20	1 K	91m	1.31
220	22uH	1 K	0.34	0.74	1 K	0.27	0.91	1 K	0.19	1.07	1 K	0.11	1.23
270	27uH	1 K	0.38	0.66	1 K	0.30	0.82	1 K	0.21	0.96	1 K	0.15	1.12
330	33uH	1 K	0.45	0.59	1 K	0.33	0.74	1 K	0.24	0.91	1 K	0.17	0.96
390	39uH	1 K	0.49	0.54	1 K	0.37	0.69	1 K	0.32	0.77	1 K	0.23	0.91
470	47uH	1 K	0.69	0.5	1 K	0.52	0.62	1 K	0.36	0.76	1 K	0.26	0.88
560	56uH	1 K	0.78	0.46	1 K	0.56	0.58	1 K	0.47	0.68	1 K	0.35	0.75
680	68uH	1 K	1.07	0.42	1 K	0.63	0.51	1 K	0.52	0.61	1 K	0.38	0.69
820	82uH	1 K	1.21	0.38	1 K	0.71	0.46	1 K	0.69	0.57	1 K	0.43	0.61
101	100uH	1 K	1.39	0.34	1 K	1.03	0.42	1 K	0.79	0.5	1 K	0.61	0.60
121	120uH	1 K	1.9	0.31	1 K	1.15	0.38	1 K	0.89	0.49	1 K	0.66	0.52
151	150uH	1 K	2.18	0.28	1 K	1.68	0.35	1 K	1.27	0.43	1 K	0.88	0.46
181	180uH	1 K	2.77	0.26	1 K	1.87	0.32	1 K	1.45	0.39	1 K	0.98	0.42
221	220uH	1 K	3.12	0.23	1 K	2.08	0.29	1 K	1.65	0.35	1 K	1.17	0.36
271	270uH	1 K	4.38	0.22	1 K	2.37	0.26	1 K	2.31	0.32	1 K	1.64	0.34
331	330uH	1 K	4.94	0.19	1 K	2.67	0.23	1 K	2.62	0.28	1 K	1.86	0.32
391	390uH				1 K	2.94	0.22	1 K	2.94	0.26	1 K	2.85	0.29
471	470uH				1 K	3.93	0.2	1 K	4.18	0.24	1 K	3.01	0.26
561	560uH				1 K	5.43	0.18	1 K	4.67	0.22	1 K	3.62	0.23
681	680uH				1 K	7.32	0.17	1 K	5.73	0.19	1 K	4.63	0.22
821	820uH				1 K	8.24	0.15	1 K	6.54	0.18	1 K	5.2	0.2
102	1000uH				1 K	9.26	0.14	1 K	9.44	0.16	1 K	6	0.18



## I ELECTRICAL SPECIFICATIONS

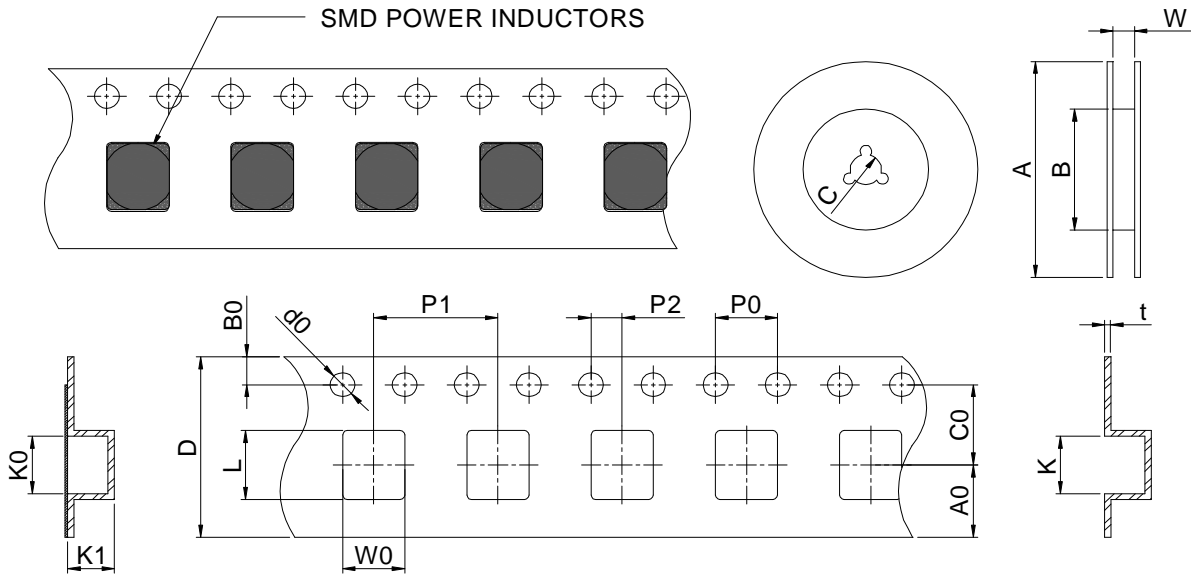
Parts No.	Inductance	SPRI1204			SPRI1205			SPRI1207		
		Freq.	RDC	IDC	Freq.	RDC	IDC	Freq.	RDC	IDC
		Hz	$\Omega$	A	Hz	$\Omega$	A	Hz	$\Omega$	A
1R2	1.2uH							100 K	7m	9.80
1R3	1.3uH				7.96 M	12m	8.00			
2R1	2.1uH				7.96 M	14m	7.00			
2R4	2.4uH							100 K	12m	8.00
2R9	2.9uH									
3R1	3.1uH				7.96 M	17m	6.00			
3R5	3.5uH							100 K	14m	7.50
3R9	3.9uH	100 K	15m	6.50						
4R4	4.4uH				7.96 M	20m	5.00			
4R7	8.2uH							100 K	16m	6.80
5R5	5.5uH	100 K	18m	5.70						
5R8	5.8uH				7.96 M	21m	4.40			
6R1	6.1uH							100 K	18m	6.60
6R8	6.8uH	100 K	23m	4.90						
7R5	7.5uH				7.96 M	24m	4.20			
7R6	7.6uH							100 K	20m	5.90
100	10uH	100 K	28m	4.50	1 K	25m	4.00	1 K	22m	5.40
120	12uH	100 K	38m	4.00	1 K	27m	3.50	1 K	25m	4.90
150	15uH	100 K	50m	3.20	1 K	30m	3.30	1 K	27m	4.50
180	18uH	100 K	57m	3.10	1 K	34m	3.00	1 K	40m	3.90
220	22uH	100 K	66m	2.90	1 K	36m	2.80	1 K	44m	3.60
270	27uH	100 K	80m	2.80	1 K	51m	2.30	1 K	46m	3.40
330	33uH	100 K	97m	2.70	1 K	57m	2.10	1 K	65m	3.00
390	39uH	100 K	132m	2.10	1 K	68m	2.00	1 K	73m	2.75
470	47uH	100 K	150m	1.90	1 K	75m	1.80	1 K	0.10	2.50
560	56uH	100 K	190m	1.80	1 K	0.11	1.70	1 K	0.11	2.35
680	68uH	100 K	220m	1.50	1 K	0.12	1.50	1 K	0.14	2.10
820	82uH	100 K	260m	1.30	1 K	0.14	1.40	1 K	0.16	1.95
101	100uH	100 K	308m	1.20	1 K	0.16	1.30	1 K	0.22	1.70
121	120uH	100 K	0.38	1.10	1 K	0.17	1.10	1 K	0.25	1.60
151	150uH	100 K	0.53	0.95	1 K	0.23	1.00	1 K	0.28	1.42
181	180uH	100 K	0.62	0.85	1 K	0.29	0.90	1 K	0.35	1.30
221	220uH	100 K	0.70	0.80	1 K	0.40	0.80	1 K	0.39	1.16
271	270uH	100 K	0.87	0.60	1 K	0.46	0.75	1 K	0.56	1.06
331	330uH	100 K	0.99	0.50	1 K	0.51	0.68	1 K	0.64	0.95
391	390uH				1 K	0.69	0.65	1 K	0.70	0.88
471	470uH				1 K	0.77	0.58	1 K	0.98	0.79
561	560uH				1 K	0.86	0.54	1 K	1.07	0.73
681	680uH				1 K	1.20	0.48	1 K	1.46	0.67
821	820uH				1 K	1.34	0.43	1 K	1.64	0.60

※ The rated current indicates the current when the inductance decreases to 75% over of its nominal value or DC. current when the temperature rising  $\Delta t=40^{\circ}\text{C}$  lower, whichever is lower



## I PACKING

### 1. REEL AND DIMENSIONS



PART NO	DIMENSIONS OF REEL			QTY(PCS)
	A	C	W	
SPRI0603	178	13.0±0.50	16.0±0.50	1500PCS/REEL
SPRI0605	178	13.0±0.50	16.0±0.50	1000PCS/REEL
SPRI0703	330	13.0±0.50	16.0±0.50	1000PCS/REEL
SPRI0704	330	13.0±0.50	16.0±0.50	1000PCS/REEL
SPRI1204	330	13.0±0.50	24.0±0.50	500PCS/REEL
SPRI1205	330	13.0±0.50	24.0±0.50	500PCS/REEL
SPRI1207	330	13.0±0.50	24.0±0.50	500PCS/REEL

### 2. CARRIER AND DIMENSIONS

DIM	SPRI0603	SPRI0605	SPRI0703	SPRI0704	SPRI1204	SPRI1205	SPRI1207
A0	6.75±0.10	6.75±0.10	6.75±0.10	6.75±0.10	10.75±0.1	10.75±0.1	10.75±0.1
B0	1.75±0.10	1.75±0.10	1.75±0.10	1.75±0.10	1.75±0.10	1.75±0.10	1.75±0.10
C0	7.50±0.10	7.50±0.10	7.50±0.10	7.50±0.10	11.50±0.1	11.50±0.1	11.50±0.1
D	16.00±0.3	16.00±0.3	16.0±0.30	16.0±0.30	24.0±0.30	24.0±0.30	24.0±0.30
K	6.70±0.20	6.70±0.20	8.00±0.20	8.00±0.20	12.55±0.2	12.55±0.2	12.55±0.2
K0	7.10±0.20	7.10±0.20	8.00±0.20	8.00±0.20	12.55±0.2	12.55±0.2	12.55±0.2
K1	3.20±0.10	3.20±0.10	3.80±0.10	5.05±0.10	5.05±0.10	6.10±0.10	8.10±0.10
L	7.50±0.20	7.50±0.20	8.40±0.20	8.40±0.20	13.00±0.2	13.00±0.2	13.00±0.2
W0	7.10±0.20	7.10±0.20	8.40±0.20	8.40±0.20	13.00±0.2	13.00±0.2	13.00±0.2
P0	4.00±0.10	4.00±0.10	4.00±0.10	4.00±0.10	4.00±0.10	4.00±0.10	4.00±0.10
P1	8.00±0.10	8.00±0.10	12.0±0.10	12.0±0.10	16.0±0.10	16.0±0.10	16.0±0.10
P2	2.00±0.05	2.00±0.05	2.00±0.05	2.00±0.05	2.00±0.05	2.00±0.05	2.00±0.05
d0	1.50±0.05	1.50±0.05	1.50±0.05	1.50±0.05	1.50±0.05	1.50±0.05	1.50±0.05
t	0.40±0.05	0.40±0.05	0.40±0.05	0.40±0.05	0.40±0.05	0.40±0.05	0.40±0.05