



## SMD Power Coil- *S PRD series*

### PRODUCT IDENTIFICATION



### FEATURES

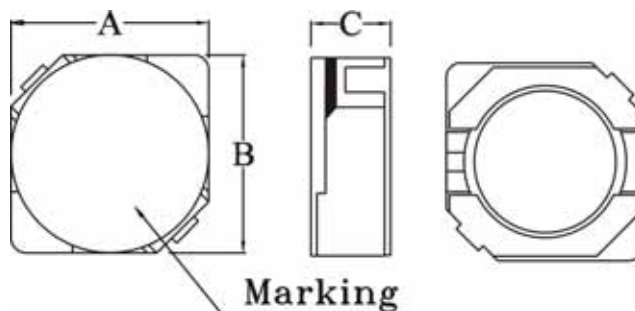
- SPRD series are superior to be high saturation for surface mounting
- Very thin & compact
- With large permissible DC current & low DC resistance
- Magnetic shielding surface mount inductor with high current rating

### APPLICATIONS

- PDA's flash memory
- Step-up, step-down converters
- Communications
- Hard disk, notebook computer

### DIMENSIONS (mm)

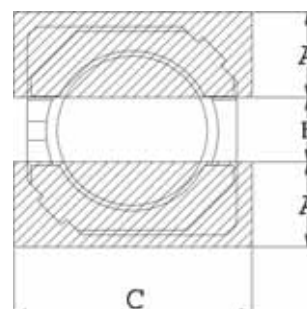
**SPRD** - **0315**- **1R0** **M**  
 |                    |                    |                    |  
**Type**        **Size**                    **Inductance**        **Tolerance**



No.	Part No.	Size (mm)		
		A	B	C
1	SPRD 0315	3.8 ± 0.3	3.8 ± 0.3	1.8 Max.
2	SPRD 0402	4.7 ± 0.3	4.7 ± 0.3	2.0 Max.
3	SPRD 0403	4.7 ± 0.3	4.7 ± 0.3	3.0 Max.
4	SPRD 0503	5.7 ± 0.3	5.7 ± 0.3	3.0 Max.
5	SPRD 0603	6.7 ± 0.3	6.7 ± 0.3	3.0 Max.
6	SPRD 0604	6.7 ± 0.3	6.7 ± 0.3	4.0 Max.

### RECOMMENDED PATTERN(mm)

Part	A	B	C
SPRD 0315	1.60	1.20	4.50
SPRD 0402	1.90	1.50	5.30
SPRD 0403	1.90	1.50	5.30
SPRD 0503	2.15	2.00	6.30
SPRD 0603	2.65	2.00	7.30
SPRD 0604	2.65	2.00	7.30



### PACKAGE

Type	SPRD 0315	SPRD 0402	SPRD 0403	SPRD 0503	SPRD 0603	SPRD 0604
Q'TY/Reel	2,000	2,000	2,000	1,000	1,000	1,000

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Part Code	( $\mu$ H)	SPRD 0315		SPRD 0402		SPRD 0403		SPRD 0503		SPRD 0603		SPRD 0604	
		RDC( $\Omega$ )	IDC(A)	RDC( $\Omega$ )	IDC(A)	RDC( $\Omega$ )	IDC(A)	RDC( $\Omega$ )	IDC(A)	RDC( $\Omega$ )	IDC(A)	RDC( $\Omega$ )	IDC(A)
1R0	1.0			0.045	1.72								
1R2	1.2					0.0236	2.56						
1R5	1.5												
1R8	1.8					0.0275	2.20						
2R2	2.2			0.075	1.32	0.0313	2.04						
2R5	2.5							0.018	2.60				
2R7	2.7			0.105	1.28	0.0433	1.60						
3R0	3.0							0.024	2.40	0.024	3.00		
3R3	3.3	0.085	1.10	0.110	1.04	0.0492	1.57					0.020	3.50
3R9	3.9	0.081	0.75	0.155	0.88	0.0648	1.44			0.027	2.60		
4R2	4.2							0.031	2.20				
4R7	4.7	0.105	0.90	0.162	0.84	0.0720	1.32						
5R0	5.0									0.031	2.40	0.024	2.90
5R3	5.3							0.038	1.90				
5R6	5.6	0.102	0.62	0.170	0.80	0.1009	1.17						
6R0	6.0									0.035	2.25		
6R2	6.2							0.045	1.80			0.027	2.50
6R8	6.8	0.170	0.73	0.200	0.76	0.1089	1.12						
7R3	7.3									0.054	2.10		
7R4	7.4											0.031	2.30
8R2	8.2	0.140	0.51	0.245	0.68	0.1175	1.04	0.053	1.60				
8R6	8.6									0.058	1.85		
8R7	8.7											0.034	2.20
100	10	0.210	0.55	0.200	0.61	0.1283	1.00	0.065	1.30	0.065	1.70	0.038	2.00
120	12	0.205	0.42	0.210	0.56	0.1316	0.84	0.076	1.20	0.070	1.55	0.053	1.70
150	15	0.295	0.45	0.240	0.50	0.1490	0.76	0.103	1.10	0.084	1.40	0.057	1.60
180	18	0.327	0.34	0.338	0.48	0.1660	0.72	0.110	1.00	0.095	1.32	0.092	1.50
220	22	0.430	0.40	0.397	0.41	0.2350	0.70	0.122	0.90	0.128	1.20	0.096	1.30
270	27	0.470	0.28	0.441	0.35	0.2610	0.58	0.175	0.85	0.142	1.05	0.109	1.20
330	33	0.675	0.32	0.694	0.32	0.3780	0.56	0.189	0.75	0.165	0.97	0.124	1.10
390	39	0.700	0.24	0.709	0.30	0.3837	0.50	0.212	0.70	0.210	0.86	0.138	1.00
470	47	0.775	0.21			0.5870	0.48	0.260	0.62	0.238	0.80	0.155	0.95
560	56					0.6245	0.41	0.305	0.58	0.277	0.73	0.202	0.85
680	68					0.6990	0.35	0.355	0.52	0.304	0.65	0.234	0.75
820	82					0.9148	0.32	0.463	0.46	0.390	0.60	0.324	0.70
101	100					1.0200	0.29	0.520	0.42	0.535	0.54	0.358	0.65
121	120					1.2700	0.27						
151	150					1.3500	0.24						
181	180					1.5400	0.22						

DCR & IDC listed are all Max. Value.

Tolerance : M =  $\pm$  20% , M tolerance is standard.