

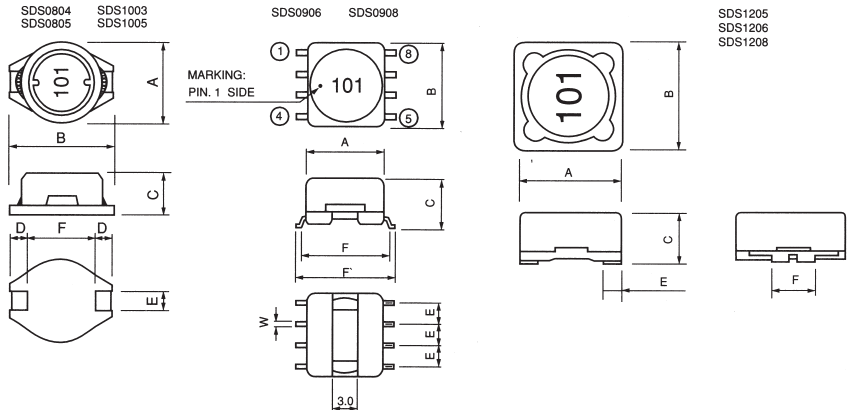
**FERRITE CORE  
SHIELDED POWER CHOKE COIL  
SDS**



**IDENTIFICATION**

**MARKING**

Black, 3 digits and marking dot



All these products have Pb-free terminations and meet EU-RoHS and China-RoHS requirements

**TYPE DESIGNATION (HOW TO ORDER)**

SDS	1205	T	TEB	2R5	M
PRODUCT CODE	STYLE	TERMINATION SURFACE MATERIAL	TAPING*	NOMINAL INDUCTANCE	INDUCTANCE TOLERANCE
	0804, 0805, 0906, 0908, 1003, 1005, 1205, 1206, 1208	T: Sn	TEB: Tape embossed 13" BK: Bulk *Please see "PACKAGING"	3 digits (Unit: $\mu\text{H}$ )	K: ( $\pm 10\%$ ) Y: ( $\pm 15\%$ ) M: ( $\pm 20\%$ )

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS

**FEATURES**

- Shielded choke coil for large DC current with low DC resistance
- Small surface area allows high density mounting
- Operating temperature range:  $-20^{\circ}\text{C}$  ...  $+80^{\circ}\text{C}$
- Measuring frequency: 1kHz
- Suitable for reflow soldering

**DIMENSIONS (mm)**

TYPE	A	B	C	D	E	F	F <sup>1</sup>	W
SDS 0804	$8.0 \pm 0.2$	$10.5 \pm 0.2$	$3.7 \pm 0.3$	$2.1 \pm 0.2$	$2.0 \pm 0.2$	$6.0 \pm 0.3$	—	—
SDS 0805	$8.0 \pm 0.2$	$10.5 \pm 0.2$	$4.5 \pm 0.3$	$2.1 \pm 0.2$	$2.0 \pm 0.2$	$6.0 \pm 0.3$	—	—
SDS 1003	$10.3 \pm 0.2$	$12.7 \pm 0.2$	$2.7 \pm 0.3$	$2.4 \pm 0.2$	$2.5 \pm 0.2$	$7.6 \pm 0.3$	—	—
SDS 1005	$10.0 \pm 0.2$	$12.7 \pm 0.2$	$4.9 \pm 0.3$	$2.4 \pm 0.2$	$2.5 \pm 0.2$	$7.6 \pm 0.3$	—	—
SDS 0906	$9.5 \pm 0.3$	10.5	$6.0 \pm 0.3$	—	$2.5 \pm 0.3$	$11.0 \pm 0.5$	$12.7 \pm 0.8$	$0.7 \pm 0.1$
SDS 0908	$9.5 \pm 0.3$	10.5	$7.5 \pm 0.3$	—	$2.5 \pm 0.3$	$11.0 \pm 0.5$	$12.7 \pm 0.8$	$0.7 \pm 0.1$
SDS 1205	$12.7 \pm 0.3$	$12.7 \pm 0.3$	$5.0 \pm 0.5$	—	$2.3 \pm 0.2$	$5.0 \pm 0.2$	—	—
SDS 1206	$12.7 \pm 0.3$	$12.7 \pm 0.3$	$6.0 \pm 0.5$	—	$2.3 \pm 0.2$	$5.0 \pm 0.2$	—	—
SDS 1208	$12.7 \pm 0.3$	$12.7 \pm 0.3$	$8.0 \pm 0.5$	—	$2.3 \pm 0.2$	$5.0 \pm 0.2$	—	—

**RATING**

**SDS 0804**

TEB: 1.000pcs/13" reel

NOMINAL INDUCTANCE AND CODE	INDUCTANCE TOLERANCE	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)
5.0 $\mu\text{H}$ 5R0	M ( $\pm 20\%$ )	0.080 $\Omega$	1.70 A
7.5 $\mu\text{H}$ 7R5		0.100 $\Omega$	1.40 A
10.0 $\mu\text{H}$ 100		0.120 $\Omega$	1.20 A
12.0 $\mu\text{H}$ 120		0.150 $\Omega$	1.10 A
15.0 $\mu\text{H}$ 150		0.170 $\Omega$	1.00 A
18.0 $\mu\text{H}$ 180		0.190 $\Omega$	0.90 A
22.0 $\mu\text{H}$ 220	Y ( $\pm 15\%$ )	0.250 $\Omega$	0.80 A
27.0 $\mu\text{H}$ 270		0.270 $\Omega$	0.70 A
33.0 $\mu\text{H}$ 330		0.300 $\Omega$	0.65 A
39.0 $\mu\text{H}$ 390		0.380 $\Omega$	0.60 A
47.0 $\mu\text{H}$ 470		0.460 $\Omega$	0.55 A
56.0 $\mu\text{H}$ 560		K ( $\pm 10\%$ )	0.600 $\Omega$
68.0 $\mu\text{H}$ 680	0.700 $\Omega$		0.45 A
82.0 $\mu\text{H}$ 820	0.800 $\Omega$		0.40 A

**SDS 0805**

TEB: 1.000pcs/13" reel

NOMINAL INDUCTANCE AND CODE	INDUCTANCE TOLERANCE	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)
2.2 $\mu\text{H}$ 2R2	M ( $\pm 20\%$ )	0.04 $\Omega$	2.50 A
3.9 $\mu\text{H}$ 3R9		0.055 $\Omega$	2.10 A
5.6 $\mu\text{H}$ 5R6		0.065 $\Omega$	1.95 A
8.2 $\mu\text{H}$ 8R2		0.08 $\Omega$	1.75 A
10.0 $\mu\text{H}$ 100		0.10 $\Omega$	1.50 A
12.0 $\mu\text{H}$ 120		0.12 $\Omega$	1.40 A
15.0 $\mu\text{H}$ 150	Y ( $\pm 15\%$ )	0.14 $\Omega$	1.30 A
18.0 $\mu\text{H}$ 180		0.16 $\Omega$	1.20 A
22.0 $\mu\text{H}$ 220		0.18 $\Omega$	1.10 A
27.0 $\mu\text{H}$ 270		0.20 $\Omega$	1.00 A
33.0 $\mu\text{H}$ 330		0.24 $\Omega$	0.92 A
39.0 $\mu\text{H}$ 390		0.26 $\Omega$	0.84 A
47.0 $\mu\text{H}$ 470	K ( $\pm 10\%$ )	0.28 $\Omega$	0.75 A
56.0 $\mu\text{H}$ 560		0.38 $\Omega$	0.68 A
68.0 $\mu\text{H}$ 680		0.44 $\Omega$	0.60 A
82.0 $\mu\text{H}$ 820		0.55 $\Omega$	0.54 A
100 $\mu\text{H}$ 101		0.60 $\Omega$	0.50 A
120 $\mu\text{H}$ 121		0.75 $\Omega$	0.45 A

Avoid strong pressure or excessive shock at mounting or after mounting because electric/magnetic characteristics may change if it is applied to the inductors.

Contact our sales representatives before you use our products for applications including automobiles, medical equipment and aerospace equipment. Malfunction or failure of the products in such applications may cause loss of human life or serious damage.

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order or use.

INDUCTORS

## FERRITE CORE, SHIELDED POWER CHOKE COIL, SDS

### SDS 0906

TEB: 600pcs/13" reel

NOMINAL INDUCTANCE AND CODE	INDUCTANCE TOLERANCE	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)
10.0 µH : 100	M (± 20%)	0.080 Ω	1.80 A
15.0 µH : 150		0.100 Ω	1.60 A
22.0 µH : 220		0.130 Ω	1.40 A
33.0 µH : 330		0.150 Ω	1.20 A
47.0 µH : 470		0.180 Ω	1.00 A
68.0 µH : 680		0.350 Ω	0.85 A
100 µH : 101		0.420 Ω	0.70 A
150 µH : 151		0.550 Ω	0.60 A
220 µH : 221		1.00 Ω	0.48 A
330 µH : 331		1.30 Ω	0.40 A
470 µH : 471	Y (± 15%)	1.60 Ω	0.35 A
680 µH : 681		3.20 Ω	0.25 A
1000 µH : 102		4.00 Ω	0.22 A
1500 µH : 152		5.20 Ω	0.18 A
2200 µH : 222		8.50 Ω	0.16 A
3300 µH : 332		11.0 Ω	0.12 A
4700 µH : 472		19.0 Ω	0.10 A
6800 µH : 682		24.0 Ω	0.09 A
10000 µH : 103		38.0 Ω	0.07 A

### SDS 0908

TEB: 400pcs/13" reel

NOMINAL INDUCTANCE AND CODE	INDUCTANCE TOLERANCE	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)
10 µH : 100	M (± 20%)	0.04 Ω	3.00 A
12 µH : 120		0.05 Ω	2.50 A
15 µH : 150		0.065 Ω	2.20 A
18 µH : 180		0.075 Ω	2.00 A
22 µH : 220		0.08 Ω	1.90 A
27 µH : 270		0.09 Ω	1.80 A
33 µH : 330		0.10 Ω	1.70 A
39 µH : 390		0.135 Ω	1.50 A
47 µH : 470		0.15 Ω	1.40 A
56 µH : 560		0.165 Ω	1.35 A
68 µH : 680	Y (± 15%)	0.184 Ω	1.25 A
82 µH : 820		0.26 Ω	1.05 A
100 µH : 101		0.28 Ω	1.00 A
120 µH : 121		0.34 Ω	0.90 A
150 µH : 151		0.45 Ω	0.80 A
180 µH : 181		0.50 Ω	0.70 A
220 µH : 221		0.60 Ω	0.65 A
270 µH : 271		0.70 Ω	0.60 A
330 µH : 331		0.80 Ω	0.55 A
390 µH : 391		1.00 Ω	0.50 A
470 µH : 471	1.15 Ω	0.45 A	
560 µH : 561	1.50 Ω	0.38 A	
680 µH : 681	1.70 Ω	0.35 A	
820 µH : 821	2.20 Ω	0.32 A	
1000 µH : 102	2.50 Ω	0.30 A	
1500 µH : 152	4.00 Ω	0.25 A	
2200 µH : 222	5.00 Ω	0.20 A	
3300 µH : 332	8.00 Ω	0.15 A	
4700 µH : 472	12.0 Ω	0.12 A	
6800 µH : 682	16.5 Ω	0.10 A	
10000 µH : 103	26.0 Ω	0.095 A	
15000 µH : 153	40.0 Ω	0.075 A	

### SDS 1005

TEB: 600pcs/13" reel

NOMINAL INDUCTANCE AND CODE	INDUCTANCE TOLERANCE	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)
2.2 µH : 2R2	M (± 20%)	0.027 Ω	3.10 A
3.0 µH : 3R0		0.03 Ω	2.90 A
4.7 µH : 4R7		0.04 Ω	2.50 A
7.0 µH : 7R0		0.055 Ω	2.20 A
10 µH : 100		0.065 Ω	2.00 A
12 µH : 120		0.08 Ω	1.80 A
15 µH : 150		0.085 Ω	1.70 A
18 µH : 180		0.09 Ω	1.60 A
22 µH : 220		0.10 Ω	1.40 A
27 µH : 270		0.12 Ω	1.30 A
33 µH : 330	Y (± 15%)	0.16 Ω	1.20 A
39 µH : 390		0.18 Ω	1.05 A
47 µH : 470		0.19 Ω	1.00 A
56 µH : 560		0.21 Ω	0.90 A
68 µH : 680		0.34 Ω	0.82 A
82 µH : 820		0.38 Ω	0.75 A
100 µH : 101		0.42 Ω	0.68 A
120 µH : 121		0.46 Ω	0.60 A
150 µH : 151		0.52 Ω	0.55 A
180 µH : 181		0.70 Ω	0.50 A
220 µH : 221	K (± 10%)	0.80 Ω	0.45 A
270 µH : 271		1.10 Ω	0.40 A
330 µH : 331		1.20 Ω	0.35 A
390 µH : 391		1.40 Ω	0.33 A

### SDS 1003

TEB: 1.000pcs/13" reel

NOMINAL INDUCTANCE AND CODE	INDUCTANCE TOLERANCE	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)
2.2 µH : 2R2	M (± 20%)	0.045 Ω	2.76 A
4.7 µH : 4R7		0.078 Ω	1.90 A
7.5 µH : 7R5		0.10 Ω	1.44 A
10.0 µH : 100		0.145 Ω	1.24 A
15.0 µH : 150		0.20 Ω	1.02 A
22.0 µH : 220		0.30 Ω	0.80 A
33.0 µH : 330		0.45 Ω	0.70 A
47.0 µH : 470		0.65 Ω	0.60 A
68.0 µH : 680		0.80 Ω	0.48 A
100 µH : 101		1.40 Ω	0.40 A
150 µH : 151	Y (± 15%)	1.80 Ω	0.32 A
220 µH : 221		2.20 Ω	0.26 A

### SDS 1205

TEB: 600pcs/13" reel

NOMINAL INDUCTANCE AND CODE	INDUCTANCE TOLERANCE	DC RESISTANCE (Max.)	ALLOWABLE DC CURRENT (Max.)
2.5 µH : 2R5	M (± 20%)	24 mΩ	5.0 A
5.0 µH : 5R0		35 mΩ	4.0 A
10 µH : 100		54 mΩ	3.0 A
25 µH : 250		120 mΩ	2.0 A
50 µH : 500		200 mΩ	1.5 A
75 µH : 750	Y (± 15%)	330 mΩ	1.2 A
100 µH : 101		400 mΩ	1.0 A

### SDS 1206

TEB: 600pcs/13" reel

NOMINAL INDUCTANCE AND CODE	INDUCTANCE TOLERANCE	DC RESISTANCE (Max.)	ALLOWABLE DC CURRENT (Max.)
2.5 µH : 2R5	M (± 20%)	16 mΩ	6.20 A
5.0 µH : 5R0		22 mΩ	4.70 A
7.5 µH : 7R5		25 mΩ	3.80 A
10.0 µH : 100		35 mΩ	3.30 A
12.0 µH : 120		38 mΩ	3.00 A
15.0 µH : 150		42 mΩ	2.80 A
18.0 µH : 180		50 mΩ	2.50 A
22.0 µH : 220		62 mΩ	2.30 A
27.0 µH : 270		68 mΩ	2.00 A
33.0 µH : 330		90 mΩ	1.90 A
39.0 µH : 390	Y (± 15%)	100 mΩ	1.75 A
47.0 µH : 470		130 mΩ	1.60 A
56.0 µH : 560		155 mΩ	1.45 A
68.0 µH : 680		170 mΩ	1.30 A
82.0 µH : 820		185 mΩ	1.20 A
100 µH : 101		220 mΩ	1.10 A
120 µH : 121		260 mΩ	1.00 A
150 µH : 151		320 mΩ	0.90 A
180 µH : 181		380 mΩ	0.80 A
220 µH : 221		460 mΩ	0.70 A
270 µH : 271	K (± 10%)	520 mΩ	0.65 A
330 µH : 331		660 mΩ	0.60 A
390 µH : 391		870 mΩ	0.55 A
470 µH : 471		970 mΩ	0.50 A
560 µH : 561		1320 mΩ	0.45 A
680 µH : 681		1500 mΩ	0.40 A
820 µH : 821		1700 mΩ	0.35 A

### SDS 1208

TEB: 400pcs/13" reel

NOMINAL INDUCTANCE AND CODE	INDUCTANCE TOLERANCE	DC RESISTANCE (Max.)	ALLOWABLE DC CURRENT (Max.)	
2.5 µH : 2R5	M (± 20%)	11.4 mΩ	7.50 A	
4.5 µH : 4R5		14.0 mΩ	6.50 A	
6.5 µH : 6R5		18.0 mΩ	6.00 A	
10.0 µH : 100		21.0 mΩ	5.00 A	
12.0 µH : 120		25.0 mΩ	4.80 A	
15.0 µH : 150		36.0 mΩ	4.00 A	
18.0 µH : 180		40.0 mΩ	3.80 A	
22.0 µH : 220		43.0 mΩ	3.50 A	
27.0 µH : 270		48.0 mΩ	3.00 A	
33.0 µH : 330		Y (± 15%)	62.0 mΩ	2.80 A
39.0 µH : 390	76.0 mΩ		2.50 A	
47.0 µH : 470	85.0 mΩ		2.20 A	
56.0 µH : 560	110 mΩ		2.00 A	
68.0 µH : 680	135 mΩ		1.80 A	
82.0 µH : 820	150 mΩ		1.60 A	
100 µH : 101	170 mΩ		1.50 A	
220 µH : 221	380 mΩ		1.10 A	
330 µH : 331	K (± 10%)		650 mΩ	0.85 A
470 µH : 471			850 mΩ	0.70 A
1000 µH : 102		1650 mΩ	0.50 A	

Avoid strong pressure or excessive shock at mounting or after mounting because electric/magnetic characteristics may change if it is applied to the inductors.

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