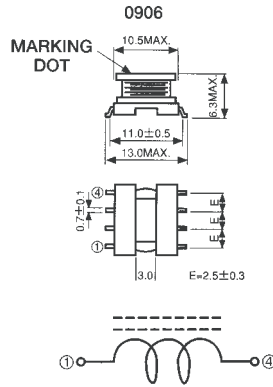
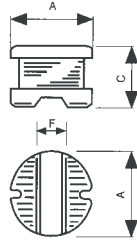


# FERRITE CORE POWER CHOKE COIL SDR

0603 • 0604 • 0805 • 1006



## IDENTIFICATION

### MARKING

Black, 3 digits and marking dot

## FEATURES

- Large permissible DC current and low DC resistance
- Small surface area allows high mounting density
- Operating temperature range: -20° C ... +80° C
- Suitable for reflow soldering

## DIMENSIONS (mm)

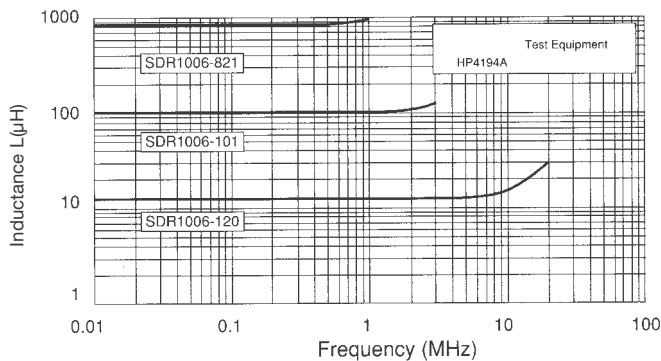
TYPE	A Ø	C	F <sub>(TYP.)</sub>
SDR0603	5.6 ± 0.2	3.7 ± 0.3	(1.8)
SDR0604	5.6 ± 0.2	4.5 ± 0.3	(1.8)
SDR0805	7.5 ± 0.3	5.0 ± 0.3	(2.6)
SDR1006	9.5 ± 0.3	5.5 ± 0.3	(2.9)
SDR0906	(please refer to above figure)		

## TYPE DESIGNATION (HOW TO ORDER)

Old Part No.	SDR	0603	M	TE	1R5	
New Part No.	SDR	0603	L	TE	1R5	M
	PRODUCT CODE	STYLE	TERMINATION SURFACE MATERIAL T: Sn L: Sn/Pb	INDUCTANCE TOLERANCE	TAPING* NOMINAL INDUCTANCE 3 digits (Unit: µH)	INDUCTANCE TOLERANCE

\*Please see "PACKAGING"

## L-Frequency Characteristics



## RATING

### SDR0603

NOMINAL INDUCTANCE AND CODE	INDUCTANCE TOLERANCE	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)	
1.5 µH 1R5	M (± 20%)	0.040 Ω	3.00 A	
2.5 µH 2R5		0.045 Ω	2.35 A	
3.9 µH 3R9		0.050 Ω	2.10 A	
5.0 µH 5R0		0.070 Ω	1.60 A	
6.8 µH 6R8		0.110 Ω	1.38 A	
7.5 µH 7R5		0.120 Ω	1.29 A	
10 µH 100		0.150 Ω	1.14 A	
12 µH 120		0.160 Ω	1.02 A	
15 µH 150		0.180 Ω	0.93 A	
18 µH 180		0.250 Ω	0.82 A	
22 µH 220		0.275 Ω	0.75 A	
27 µH 270		0.300 Ω	0.67 A	
33 µH 330		K (± 10%)	0.450 Ω	0.61 A
39 µH 390			0.460 Ω	0.56 A
47 µH 470	0.550 Ω		0.52 A	
56 µH 560	0.615 Ω		0.48 A	
68 µH 680	0.720 Ω		0.44 A	
82 µH 820	0.840 Ω	0.40 A		

## FERRITE CORE POWER CHOKE COIL SDR

### SDR0604

NOMINAL INDUCTANCE AND CODE		INDUCTANCE TOLERANCE	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)	
3.3 $\mu$ H	3R3	M ( $\pm 20\%$ )	0.060 $\Omega$	2.00 A	
3.9 $\mu$ H	3R9		0.065 $\Omega$	1.90 A	
4.7 $\mu$ H	4R7		0.070 $\Omega$	1.80 A	
5.6 $\mu$ H	5R6		0.075 $\Omega$	1.70 A	
6.8 $\mu$ H	6R8		0.080 $\Omega$	1.60 A	
8.2 $\mu$ H	8R2		0.090 $\Omega$	1.50 A	
10 $\mu$ H	100		0.100 $\Omega$	1.45 A	
12 $\mu$ H	120		0.120 $\Omega$	1.40 A	
15 $\mu$ H	150		0.140 $\Omega$	1.30 A	
18 $\mu$ H	180		0.150 $\Omega$	1.25 A	
22 $\mu$ H	220	Y ( $\pm 15\%$ )	0.190 $\Omega$	1.10 A	
27 $\mu$ H	270		0.220 $\Omega$	1.00 A	
33 $\mu$ H	330		0.250 $\Omega$	0.88 A	
39 $\mu$ H	390		0.320 $\Omega$	0.80 A	
47 $\mu$ H	470		0.370 $\Omega$	0.72 A	
56 $\mu$ H	560		0.420 $\Omega$	0.68 A	
68 $\mu$ H	680		0.520 $\Omega$	0.62 A	
82 $\mu$ H	820		K ( $\pm 10\%$ )	0.600 $\Omega$	0.58 A
100 $\mu$ H	101			0.700 $\Omega$	0.52 A
120 $\mu$ H	121			0.930 $\Omega$	0.48 A
150 $\mu$ H	151	1.100 $\Omega$		0.40 A	
180 $\mu$ H	181	1.380 $\Omega$		0.38 A	
220 $\mu$ H	221	1.570 $\Omega$		0.35 A	

### SDR1006

NOMINAL INDUCTANCE AND CODE		INDUCTANCE TOLERANCE	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)
10 $\mu$ H	100	M ( $\pm 20\%$ )	0.06 $\Omega$	2.60 A
12 $\mu$ H	120		0.07 $\Omega$	2.45 A
15 $\mu$ H	150		0.08 $\Omega$	2.25 A
18 $\mu$ H	180		0.09 $\Omega$	2.15 A
22 $\mu$ H	220		0.10 $\Omega$	1.95 A
27 $\mu$ H	270		0.11 $\Omega$	1.75 A
33 $\mu$ H	330		0.12 $\Omega$	1.50 A
39 $\mu$ H	390		0.14 $\Omega$	1.35 A
47 $\mu$ H	470		0.17 $\Omega$	1.25 A
56 $\mu$ H	560		0.19 $\Omega$	1.15 A
68 $\mu$ H	680	K ( $\pm 10\%$ )	0.22 $\Omega$	1.10 A
82 $\mu$ H	820		0.25 $\Omega$	1.00 A
100 $\mu$ H	101		0.35 $\Omega$	0.97 A
120 $\mu$ H	121		0.40 $\Omega$	0.89 A
150 $\mu$ H	151		0.47 $\Omega$	0.78 A
180 $\mu$ H	181		0.63 $\Omega$	0.72 A
220 $\mu$ H	221		0.73 $\Omega$	0.66 A
270 $\mu$ H	271		0.97 $\Omega$	0.57 A
330 $\mu$ H	331		1.15 $\Omega$	0.52 A
390 $\mu$ H	391		1.30 $\Omega$	0.48 A
470 $\mu$ H	471	1.48 $\Omega$	0.42 A	
560 $\mu$ H	561	1.90 $\Omega$	0.33 A	
680 $\mu$ H	681	2.25 $\Omega$	0.28 A	
820 $\mu$ H	821	2.55 $\Omega$	0.24 A	

### SDR0805

NOMINAL INDUCTANCE AND CODE		INDUCTANCE TOLERANCE	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)
10 $\mu$ H	100	M ( $\pm 20\%$ )	0.07 $\Omega$	2.30 A
12 $\mu$ H	120		0.08 $\Omega$	2.00 A
15 $\mu$ H	150		0.09 $\Omega$	1.80 A
18 $\mu$ H	180		0.10 $\Omega$	1.60 A
22 $\mu$ H	220		0.11 $\Omega$	1.50 A
27 $\mu$ H	270		0.12 $\Omega$	1.30 A
33 $\mu$ H	330		0.14 $\Omega$	1.20 A
39 $\mu$ H	390		0.16 $\Omega$	1.10 A
47 $\mu$ H	470		0.20 $\Omega$	1.00 A
56 $\mu$ H	560		0.24 $\Omega$	0.94 A
68 $\mu$ H	680	K ( $\pm 10\%$ )	0.30 $\Omega$	0.85 A
82 $\mu$ H	820		0.37 $\Omega$	0.78 A
100 $\mu$ H	101		0.45 $\Omega$	0.72 A
120 $\mu$ H	121		0.48 $\Omega$	0.66 A
150 $\mu$ H	151		0.68 $\Omega$	0.58 A
180 $\mu$ H	181		0.77 $\Omega$	0.51 A
220 $\mu$ H	221		0.96 $\Omega$	0.49 A
270 $\mu$ H	271		1.11 $\Omega$	0.42 A
330 $\mu$ H	331		1.26 $\Omega$	0.40 A
390 $\mu$ H	391		1.77 $\Omega$	0.36 A
470 $\mu$ H	471	1.96 $\Omega$	0.34 A	

### SDR0906

NOMINAL INDUCTANCE AND CODE		INDUCTANCE TOLERANCE	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)
10 $\mu$ H	100	M ( $\pm 20\%$ )	0.09 $\Omega$	2.10 A
12 $\mu$ H	120		0.10 $\Omega$	2.00 A
15 $\mu$ H	150		0.11 $\Omega$	1.90 A
18 $\mu$ H	180		0.12 $\Omega$	1.80 A
22 $\mu$ H	220		0.13 $\Omega$	1.60 A
27 $\mu$ H	270		0.15 $\Omega$	1.40 A
33 $\mu$ H	330		0.18 $\Omega$	1.25 A
39 $\mu$ H	390		0.19 $\Omega$	1.15 A
47 $\mu$ H	470		0.23 $\Omega$	1.10 A
56 $\mu$ H	560		0.26 $\Omega$	1.05 A
68 $\mu$ H	680	K ( $\pm 10\%$ )	0.31 $\Omega$	1.00 A
82 $\mu$ H	820		0.33 $\Omega$	0.95 A
100 $\mu$ H	101		0.39 $\Omega$	0.90 A
120 $\mu$ H	121		0.43 $\Omega$	0.85 A
150 $\mu$ H	151		0.56 $\Omega$	0.75 A
180 $\mu$ H	181		0.64 $\Omega$	0.70 A
220 $\mu$ H	221		0.85 $\Omega$	0.60 A
270 $\mu$ H	271		1.00 $\Omega$	0.55 A
330 $\mu$ H	331		1.27 $\Omega$	0.50 A
390 $\mu$ H	391		1.40 $\Omega$	0.45 A
470 $\mu$ H	471	1.63 $\Omega$	0.40 A	
560 $\mu$ H	561	2.10 $\Omega$	0.32 A	
680 $\mu$ H	681	2.40 $\Omega$	0.28 A	
820 $\mu$ H	821	2.75 $\Omega$	0.24 A	
1000 $\mu$ H	102	3.50 $\Omega$	0.22 A	
1200 $\mu$ H	122	4.00 $\Omega$	0.20 A	