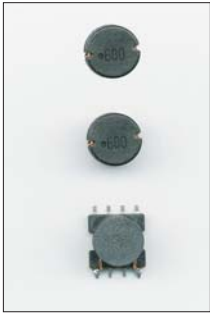
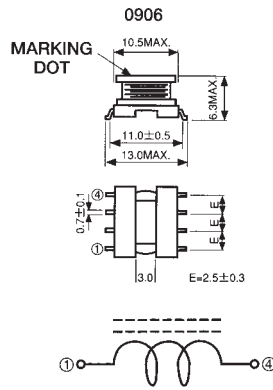
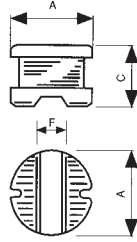


FERRITE CORE POWER CHOKE COIL SDR

0603 • 0604 • 0805 • 1006



IDENTIFICATION

MARKING

Black, 3 digits and marking dot

Products with Pb-free terminations meet RoHS requirements

FEATURES

- Large permissible DC current and low DC resistance
- Small surface area allows high mounting density
- Operating temperature range: - 20° C ... + 80° C
- Measuring frequency: 1kHz
- Suitable for reflow soldering

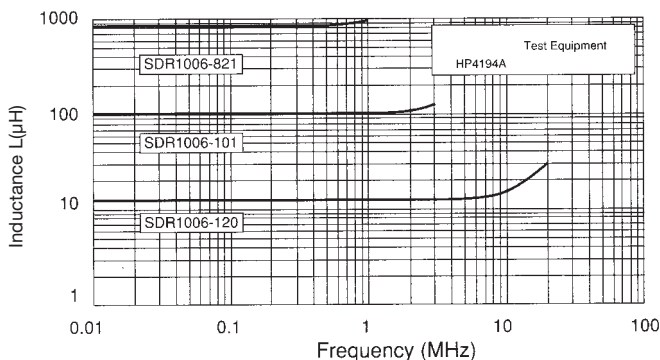
DIMENSIONS (mm)

TYPE	A Ø	C	F _(TYP.)
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. (Pb-free)	SDR	0603	T	TE	1R5	M	
	PRODUCT CODE	STYLE	TERMINATION SURFACE MATERIAL T: Sn L: Sn/Pb	INDUCTANCE TOLERANCE	TAPING* TE: Tape embossed 7" TEB: Tape embossed 13" BK: Bulk *Please see "PACKAGING"	NOMINAL INDUCTANCE 3 digits (Unit: µH)	INDUCTANCE TOLERANCE K: ±10% Y: ±15% M: ±20%

L-Frequency Characteristics



RATING

SDR0603

TE: 400pcs/7" reel; TEB: 1.500pcs/13" reel

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		0.450 Ω	0.61 A
39 µH 390		K (± 10%)	0.460 Ω
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

TE: 400pcs/7" reel; TEB: 1.500pcs/13" reel

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

SDR1006

TEB: 800pcs/13" reel

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

SDR0805

TEB: 1.000pcs/13" reel

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

SDR0906

TEB: 600pcs/13" reel

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

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

INDUCTORS