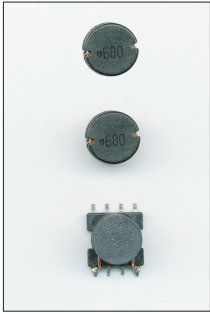
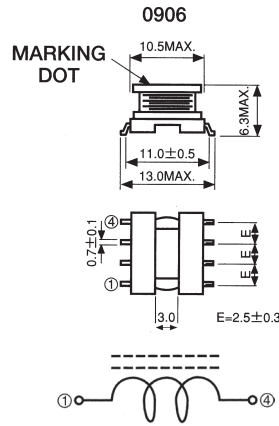
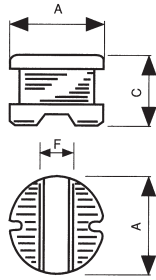


**FERRITE CORE
POWER CHOKER COIL
SDR**

0603 • 0604 • 0805 • 1006



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)

SDR	0603	T	TEB	1R5	M
PRODUCT CODE	STYLE	TERMINATION SURFACE MATERIAL	TAPING*	NOMINAL INDUCTANCE	INDUCTANCE TOLERANCE
	0603, 0604, 0805, 1006, 0906	T: Sn	TEB: Tape embossed 13" BK: Bulk *Please see "PACKAGING"	3 digits (Unit: μ 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

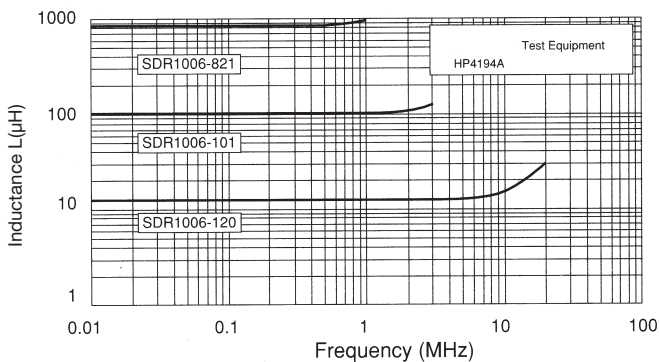
FEATURES

- 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 \varnothing	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)		

L-Frequency Characteristics



Precautions:

- Avoid strong pressure or excessive shock at mounting or after mounting because electric/magnetic characteristics may change if it is applied to the inductors.
- Due to the products using ferrite for coil bobbins, use them 80°C or under of inductor temperature because the volume of generating heat varies depending on switching frequency.

RATING

SDR0603

TEB: 1.500pcs/13" reel

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

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.

FERRITE CORE POWER CHOKE COIL SDR

SDR0604

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		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		K (\pm 10%)	0.420 Ω
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	

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INDUCTORS