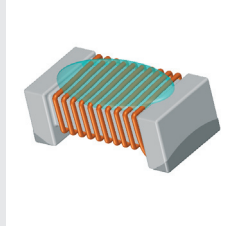
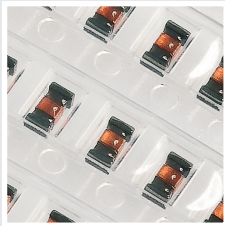
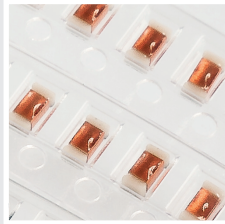
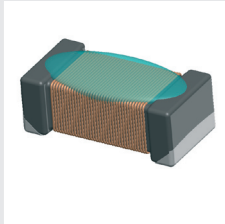


SMT Chipinduktivitäten
SMT Chip Inductors

RoHS
compliant

Baugröße / Size 1206 (3216)
Serie / Series 5403, 5503



Allgemeine Eigenschaften und technische Informationen zu den drahtgewickelten SMD-Spulen Baugröße 1206 / Serie 5403, 5503

Die Baugröße 1206 ist in zwei verschiedenen Metallisierungen erhältlich und für die Pad Layouts 1206 und 1210 geeignet.

General Characteristics and Technical Information of wire-wound SMD Inductors Size 1206 / Series 5403, 5503

The Size 1206 is available in two various metallizations and is suitable for pad layouts 1206 and 1210.

	Symbol Symbol	Kernmaterial / Core Material	
		Keramik / Ceramic	Ferrit / Ferrite
Induktivität Inductance	L	3,3 ... 1200 nH	1,5 ... 18 µH
Toleranz Tolerance	-	2/5/10/20 % ¹⁾	2/5/10/20 % ¹⁾
Minimale Güte Minimum Q-factor	Q _{min}	30 ... 45	25 ... 16
Eigenresonanzfrequenz Self resonance frequency	f _{res, min}	> 5000 ... 430 MHz	260 ... 95 MHz
Max. Gleichstromwiderstand Max. DC resistance	R _{DC, max}	40 ... 3200 mΩ	1200 ... 9000 mΩ
Nennstrom (bez. auf 85 °C) Nominal Current (ref. To 85 °C)	I _N	1000 ... 220 mA ²⁾	320 ... 130 mA ²⁾
Zulässiger Betriebstemperaturbereich permissible operating temperature range	-	- 55 ... 125° C	

¹⁾ Standard-Toleranzen - engere Toleranzen auf Anfrage
Standard tolerances - tighter tolerances on request

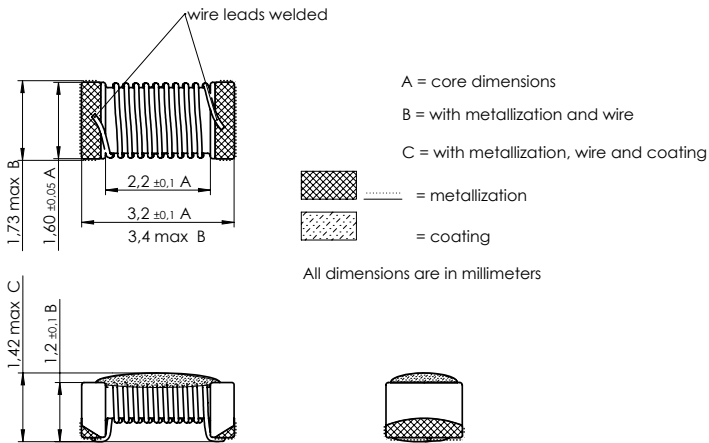
²⁾ Nennstrom (max) bis 85° C Umgebungstemperatur
maximum rated current at ambient temperature 85° C

Technische Informationen Baugröße 1206 / Serie 5403, 5503 drahtgewickelt

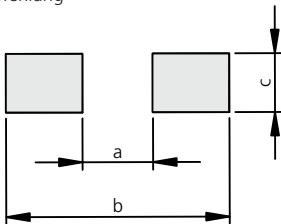
Bauteilabmessungen

Technical Details Size 1206 / Series 5403, 5503 wire-wound

Component Dimensions



Pad-Layout Empfehlung



Pad-Layout recommendation

a	b	c
2,0 ... 2,2	3,8 ... 4,2	1,6 ... 2,0

Maße / Dimensions [mm]

Elektrische Eigenschaften
Baugröße 1206 / Serie 5403, 5503
drahtgewickelt

Electrical Characteristics
Size 1206 / Series 5403, 5503
wire-wound

	Artikel-Nr.	L	Qmin	fL,Q	fres,min	RDC,max	IN,max	Tol.
	Order No.	[nH]		[MHz]	[MHz]	[mΩ]	[mA]	[%]
Keramik / Ceramics	5*03 030 *4 **	3,3	30	100	>5000	40	1000	10/20
	5*03 060 *4 **	6,8	30	100	>5000	50	1000	10/20
	5*03 120 *4 **	12	30	100	4000	80	1000	10/20
	5*03 150 *4 **	15	30	100	3200	80	1000	10/20
	5*03 180 *4 **	18	35	100	2800	80	1000	2/5/10/20
	5*03 220 *4 **	22	35	100	2300	100	1000	2/5/10/20
	5*03 270 *4 **	27	40	100	2000	110	1000	2/5/10/20
	5*03 330 *4 **	33	40	100	1900	110	1000	2/5/10/20
	5*03 390 *4 **	39	40	100	1800	130	1000	2/5/10/20
	5*03 470 *4 **	47	40	100	1400	130	1000	2/5/10/20
	5*03 560 *4 **	56	35	100	1400	230	840	2/5/10/20
	5*03 680 *4 **	68	40	100	1300	230	570	2/5/10/20
	5*03 820 *4 **	82	40	100	1200	210	660	2/5/10/20
	5*03 101 *4 **	100	40	100	1100	230	660	2/5/10/20
	5*03 121 *4 **	120	40	100	1000	290	570	2/5/10/20
	5*03 151 *4 **	150	45	100	970	300	530	2/5/10/20
	5*03 181 *4 **	180	35	50	880	400	450	2/5/10/20
	5*03 221 *4 **	220	35	50	850	470	430	2/5/10/20
	5*03 271 *4 **	270	35	50	800	500	420	2/5/10/20
	5*03 331 *4 **	330	35	50	710	620	410	2/5/10/20
	5*03 391 *4 **	390	35	50	650	820	410	2/5/10/20
	5*03 471 *4 **	470	35	50	640	1100	290	2/5/10/20
	5*03 561 *4 **	560	30	35	560	1300	280	2/5/10/20
	5*03 681 *4 **	680	30	35	540	1500	270	2/5/10/20
	5*03 821 *4 **	820	30	35	470	1800	260	2/5/10/20
Ferrit / Ferrite	5*03 102 *4 **	1000	30	35	450	2800	230	2/5/10/20
	5*03 122 *4 **	1200	30	35	430	3200	220	2/5/10/20
	5*03 152 *4 **	1500	25	7,9	260	1200	320	2/5/10/20
	5*03 182 *4 **	1800	25	7,9	250	1200	320	2/5/10/20
	5*03 222 *4 **	2200	25	7,9	240	1300	300	2/5/10/20
	5*03 272 *4 **	2700	25	7,9	230	1400	300	2/5/10/20
	5*03 332 *4 **	3300	25	7,9	200	1500	280	2/5/10/20
	5*03 392 *4 **	3900	25	7,9	190	1900	280	2/5/10/20
	5*03 472 *4 **	4700	25	7,9	170	2200	280	2/5/10/20
	5*03 562 *4 **	5600	25	7,9	160	2400	260	2/5/10/20
	5*03 682 *4 **	6800	25	7,9	150	2800	240	2/5/10/20
	5*03 822 *4 **	8200	25	7,9	130	3100	220	2/5/10/20
	5*03 103 *4 **	10000	25	7,9	120	4000	200	2/5/10/20
	5*03 123 *4 **	12000	18	2,5	110	4600	200	2/5/10/20
	5*03 153 *4 **	15000	16	2,5	100	8200	160	2/5/10/20
	5*03 183 *4 **	18000	16	2,5	95	9000	130	2/5/10/20

Musterkasten Bestellnummer: 5*03 000 01 00
 Bestückt mit je 10 Stück der gängigsten Typen.

Sample Kit Part Number: 5*03 000 01 00
 Contains a selection - 10 pcs. each of various types.

Elektrische Eigenschaften
Baugröße 1206 / Serie 5403, 5503
drahtgewickelt

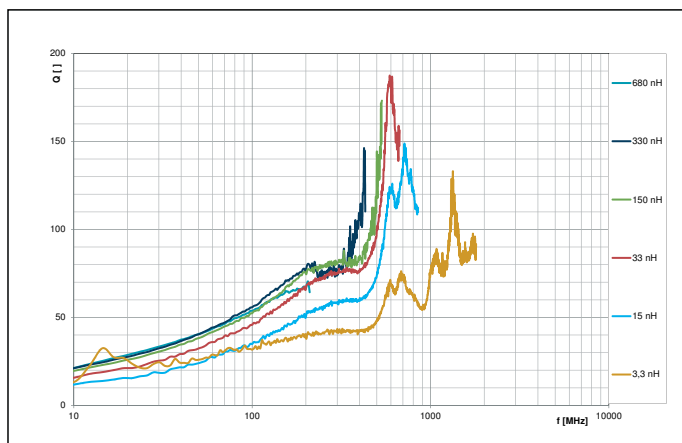
Electrical Characteristics
Size 1206 / Series 5403, 5503
wire-wound

Spule auf Keramikkörper

Coil on ceramic body

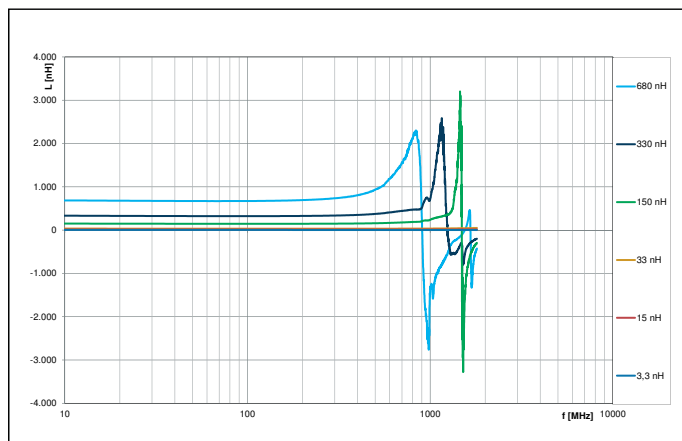
Güte Q über Frequenz f

Q-Factor vs. Frequency f



Induktivität L über Frequenz f

Inductance L vs. Frequency f



Elektrische Eigenschaften
Baugröße 1206 / Serie 5403, 5503
drahtgewickelt

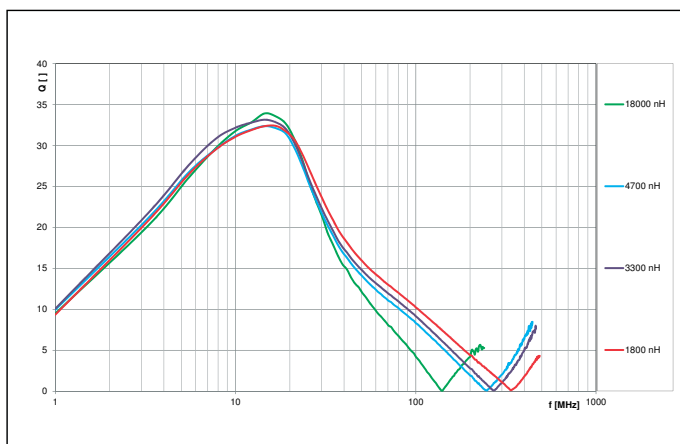
Electrical Characteristics
Size 1206 / Series 5403, 5503
wire-wound

Spule auf Ferritkörper

Coil on ferrite body

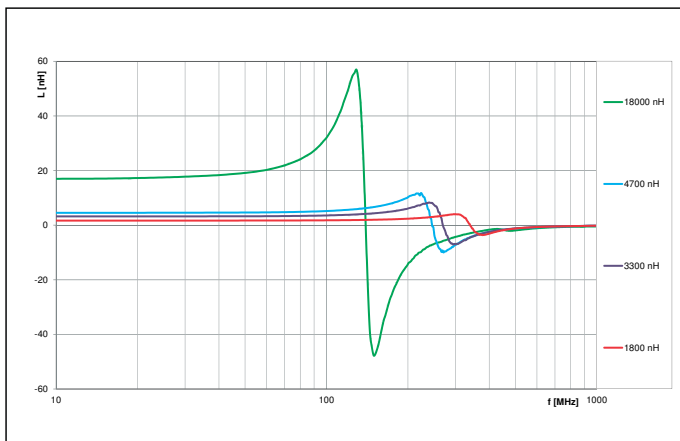
Güte Q über Frequenz f

Q-Factor vs. Frequency f



Induktivität L über Frequenz f

Inductance L vs. Frequency f



Elektrische Eigenschaften
Baugröße 1206 / Serie 5403, 5503
drahtgewickelt

Empfohlene Strombelastbarkeit $I_B / I_{N, 85^\circ\text{C}}$
 in Abhängigkeit von der Umgebungstemperatur T_a

Electrical Characteristics
Size 1206 / Series 5403, 5503
wire-wound

Recommended Current-carrying capacity $I_{op} / I_{R, 85^\circ\text{C}}$
 depending on the ambient temperature T_a

