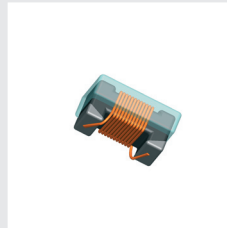
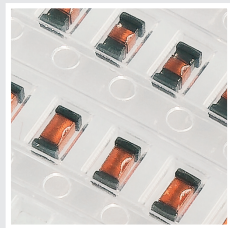
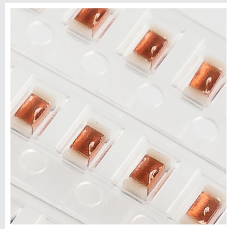
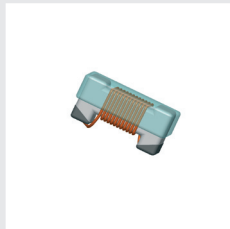


E-Serie SMT Chipinduktivitäten
E-Series SMT Chip Inductors

RoHS
compliant

Baugröße / Size 0603 (1608)
Serie / Series 5206



Technische Informationen
Baugröße 0603
E-Serie 5206

Technical Details
Size 0603
E-Series 5206

	Symbol Symbol	Kernmaterial / Core Material	
		Keramik / Ceramic	Ferrit / Ferrite
Induktivität Inductance	L	1,5 ... 470 nH	470 ... 2700 nH
Toleranz Tolerance	-	2/5/10/20 % ¹⁾	2/5/10/20 % ¹⁾
Minimale Güte Minimum Q-factor	Q _{min}	16 ... 42	12
Eigenresonanzfrequenz Self resonance frequency	f _{res, min}	> 6000 ... 700 MHz	600 ... 200 MHz
Max. Gleichstromwiderstand Max. DC resistance	R _{DC, max}	30 ... 6300 mΩ	430 ... 4040 mΩ
Nennstrom (bez. auf 85 °C) Nominal Current (ref. To 85 °C)	I _{rated}	2200 ... 100 mA ²⁾	440 ... 160 mA ²⁾
Zulässiger Betriebstemperaturbereich permissible operating temperature range	-	- 40 ... 85° C	

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

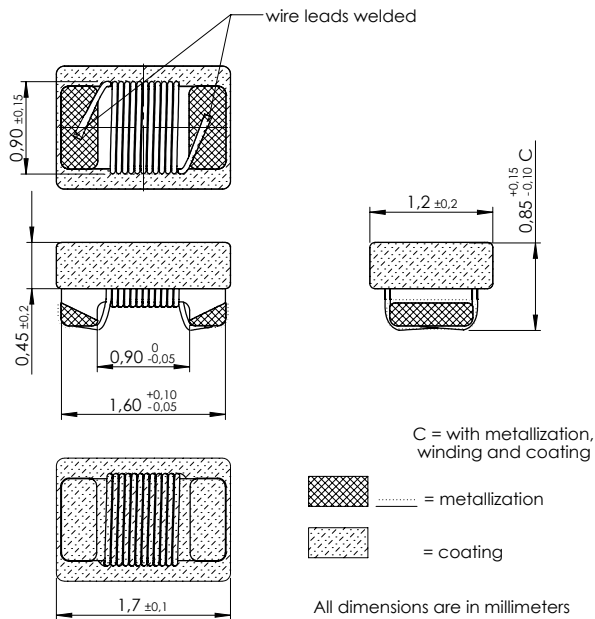
²⁾ Nennstrom (max) bis 85° C Umgebungstemperatur
maximum rated current at ambient temperature 85° C

Technische Informationen
Baugröße 0603
E-Serie 5206

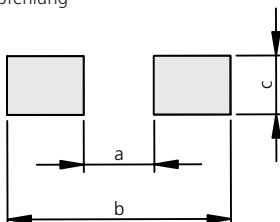
Bauteilabmessungen

Technical Details
Size 0603
E-Series 5206

Component Dimensions



Pad-Layout Empfehlung



Pad-Layout recommendation

a	b	c
0,8 ... 1,0	2,0 ... 2,5	0,7 ... 1,0

Maße / Dimensions [mm]

Elektrische Eigenschaften
Baugröße 0603
E-Serie 5206

Electrical Characteristics
Size 0603
E-Series 5206

Artikel-Nr.	L	Q _{min}	f _{LQ}	f _{res,min}	R _{DC,max}	I _{rated,max}	Tol.
Order No.	[nH]		[MHz]	[MHz]	[mΩ]	[mA]	[%]
5206 015 *4 00	1,5	20	250	>6000	30	2200	10/20
5206 018 *4 00	1,8	16	250	>6000	50	1000	10/20
5206 033 *4 00	3,3	25	250	5400	40	1300	10/20
5206 036 *4 00	3,6	30	250	5400	40	1300	10/20
5206 039 *4 00	3,9	30	250	5400	40	1300	10/20
5206 047 *4 00	4,7	22	250	5300	120	900	10/20
5206 056 *4 00	5,6	30	250	6000	45	1500	5/10/20
5206 068 *4 00	6,8	38	250	6000	50	1500	5/10/20
5206 082 *4 00	8,2	35	250	6000	90	1100	5/10/20
5206 087 *4 00	8,7	35	250	5500	70	1400	5/10/20
5206 100 *4 00	10	40	250	5200	65	1400	2/5/10/20
5206 120 *4 00	12	38	250	4500	70	1400	2/5/10/20
5206 150 *4 00	15	38	250	3300	80	1400	2/5/10/20
5206 180 *4 00	18	42	250	3600	95	1300	2/5/10/20
5206 220 *4 00	22	42	250	3000	120	1000	2/5/10/20
5206 270 *4 00	27	42	250	2600	130	900	2/5/10/20
5206 330 *4 00	33	42	250	2400	135	900	2/5/10/20
5206 390 *4 00	39	40	250	2200	150	850	2/5/10/20
5206 470 *4 00	47	38	200	2100	230	750	2/5/10/20
5206 560 *4 00	56	38	200	1900	280	700	2/5/10/20
5206 680 *4 00	68	38	200	1700	320	650	2/5/10/20
5206 820 *4 00	82	34	150	1600	470	520	2/5/10/20
5206 101 *4 00	100	34	150	1400	550	500	2/5/10/20
5206 121 *4 00	120	34	150	1400	830	450	2/5/10/20
5206 151 *4 00	150	28	100	1250	950	400	2/5/10/20
5206 181 *4 00	180	28	100	1050	1300	320	2/5/10/20
5206 221 *4 00	220	25	100	1000	1700	240	2/5/10/20
5206 271 *4 00	270	25	100	970	2600	220	2/5/10/20
5206 331 *4 00	330	25	100	800	2850	200	2/5/10/20
5206 391 *4 00	390	25	100	800	3800	170	2/5/10/20
5296 471 *400	470	30	100	700	6300	100	2/5/10/20
5206 471 *4 00	470	12	7,9	650	430	440	2/5/10/20
5206 561 *4 00	560	12	7,9	535	440	340	2/5/10/20
5206 681 *4 00	680	12	7,9	510	610	310	2/5/10/20
5206 821 *4 00	820	12	7,9	470	820	300	2/5/10/20
5206 102 *4 00	1000	12	7,9	400	1150	260	2/5/10/20
5206 122 *4 00	1200	12	7,9	390	1200	210	2/5/10/20
5206 152 *4 00	1500	12	7,9	340	1600	200	2/5/10/20
5206 182 *4 00	1800	12	7,9	310	2360	170	2/5/10/20
5206 222 *4 00	2200	12	7,9	280	3350	165	2/5/10/20
5206 272 *4 00	2700	12	7,9	260	4040	160	2/5/10/20

Keramik / Ceramic

Keramik / Ceramic

Ferrit / Ferrite

Ferrit / Ferrite

Musterkasten Bestellnummer: 5206 000 01 00
Bestückt mit je 10 Stück der gängigsten Typen.

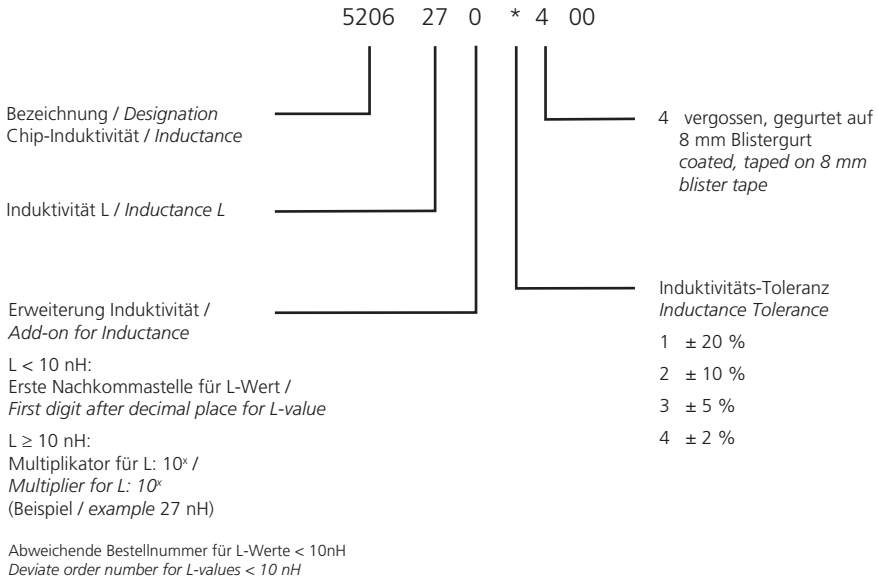
Sample Kit Part Number: 5206 000 01 00
Contains a selection - 10 pcs. each - of various types.

Bestellhinweise Baugröße 0603 E-Serie 5206

Ordering Instructions Size 0603 E-Series 5206

Erklärung des Artikelnummern-Schlüssels

Explanation of Part Code



Verpackungseinheit 0603: Rollen Ø 180 mm, 4.000 Stück
Packing Unit 0603: Reels Ø 180 mm, 4.000 pcs.

Bestellbeispiel / Ordering examples:

Chipspule / Chip Coil 0603, 270 nH, Tol. 5 %
vergossen, gegurtet / coated, taped & reeled = **5206 271 3400**

Chipspule / Chip Coil 0603, 3.6 nH, Tol. 10 %
vergossen, gegurtet / coated, taped & reeled = **5206 036 2400**

Elektrische Eigenschaften
Baugröße 0603
E-Serie 5206

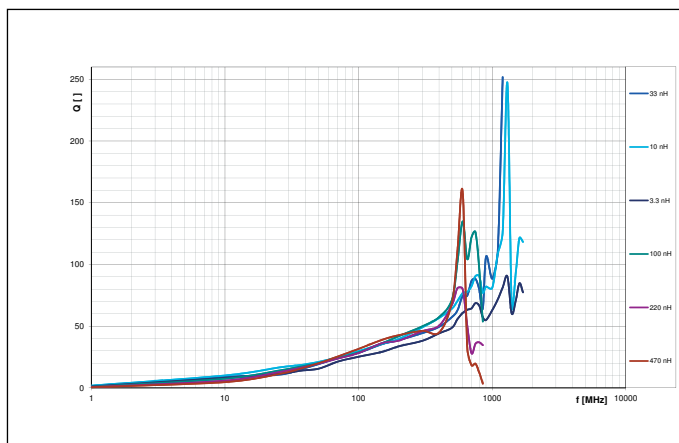
Electrical Characteristics
Size 0603
E-Series 5206

Spule auf Keramikkörper

Coil on ceramic body

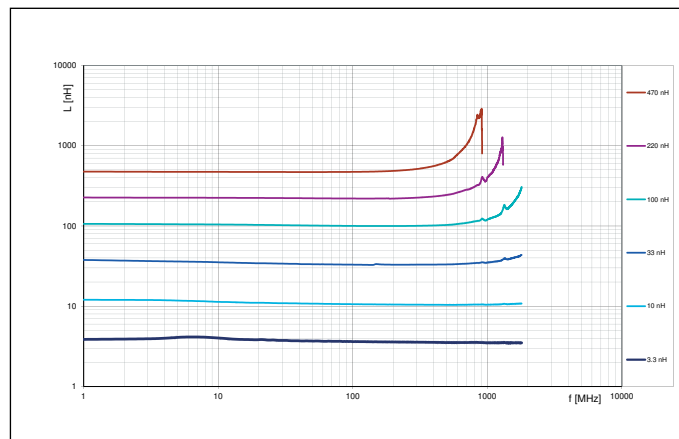
Güte Q über Frequenz f

Q-Factor vs. Frequency f



Induktivität L über Frequenz f

Inductance L vs. Frequency f



Elektrische Eigenschaften
Baugröße 0603
E-Serie 5206

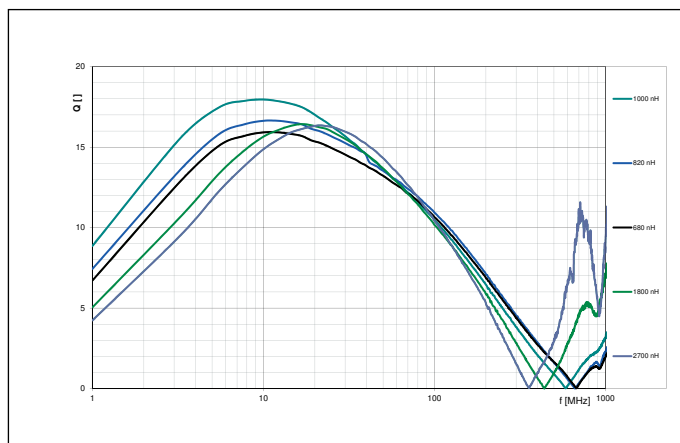
Electrical Characteristics
Size 0603
E-Series 5206

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

