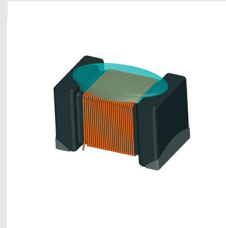
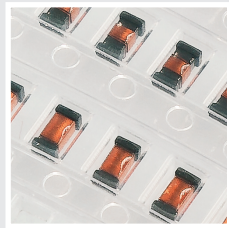
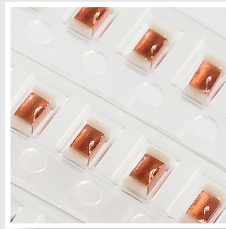
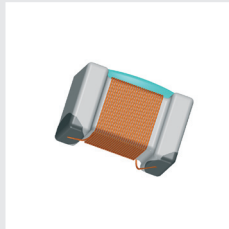


E-Serie SMT Chipinduktivitäten
E-Series SMT Chip Inductors

RoHS
compliant

Baugröße / Size 0805 (2012)
Serie / Series 5208



Technische Informationen
Baugröße 0805
E-Serie 5208

Technical Details
Size 0805
E-Series 5208

	Symbol Symbol	Kernmaterial / Core Material	
		Keramik / Ceramic	Ferrit / Ferrite
Induktivität Inductance	L	2,7 ... 820 nH	680 ... 4700 nH
Toleranz Tolerance	-	2/5/10/20 % ¹⁾	2/5/10/20 % ¹⁾
Minimale Güte Minimum Q-factor	Q _{min}	25 ... 48	15
Eigenresonanzfrequenz Self resonance frequency	f _{res, min}	> 6000 ... 480 MHz	490 ... 185 MHz
Max. Gleichstromwiderstand Max. DC resistance	R _{DC, max}	30 ... 3500 mΩ	500 ... 3400 mΩ
Nennstrom (bez. auf 85 °C) Nominal Current (ref. To 85 °C)	I _N	1700 ... 140 mA ²⁾	600 ... 200 mA ²⁾
Zulässiger Betriebstemperaturbereich permissible operating temperature range	-	- 40 ... 85° C	

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

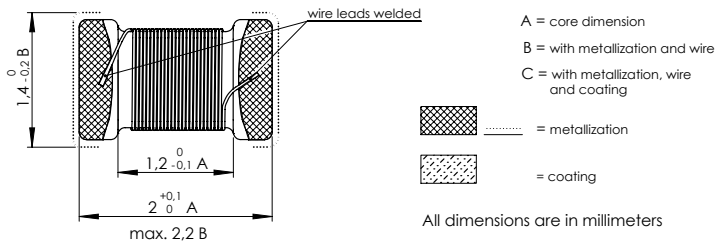
²⁾ Nennstrom (max) bis 85° C Umgebungstemperatur
maximum rated current at ambient temperature 85° C

Technische Informationen
Baugröße 0805
E-Serie 5208

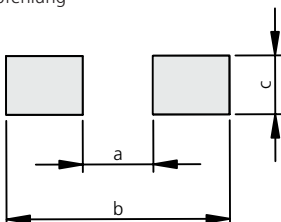
Bauteilabmessungen

Technical Details
Size 0805
E-Series 5208

Component Dimensions



Pad-Layout Empfehlung



Pad-Layout recommendation

a	b	c
1,0 ... 1,2	2,8 ... 3,2	1,2 ... 1,5

Maße / Dimensions [mm]

Elektrische Eigenschaften
Baugröße 0805
E-Serie 5208

Electrical Characteristics
Size 0805
E-Series 5208

Artikel-Nr.	L	Q _{min}	f _{LQ}	f _{res,min}	R _{OC,max}	I _{N,max}	Tol.
Order No.	[nH]		[MHz]	[MHz]	[mΩ]	[mA]	[%]
5208 020 *4 00	2,7	25	250	> 6000	30	1700	10/20
5208 050 *4 00	5,6	35	250	> 6000	40	1700	10/20
5208 060 *4 00	6,8	28	250	5400	60	1700	10/20
5208 080 *4 00	8,2	18	250	5200	180	1700	10/20
5208 100 *4 00	10	38	250	5000	75	1600	5/10/20
5208 120 *4 00	12	38	250	4100	60	1600	5/10/20
5208 150 *4 00	15	38	250	3700	80	1500	5/10/20
5208 180 *4 00	18	45	250	3300	80	1400	5/10/20
5208 220 *4 00	22	45	250	2600	80	1500	5/10/20
5208 270 *4 00	27	45	250	2580	90	1300	5/10/20
5208 330 *4 00	33	48	250	2130	110	1300	5/10/20
5208 390 *4 00	39	48	250	2000	120	1100	5/10/20
5208 470 *4 00	47	42	250	1960	130	1100	2/5/10/20
5208 560 *4 00	56	40	250	1680	140	1000	2/5/10/20
5208 680 *4 00	68	40	200	1540	200	900	2/5/10/20
5208 820 *4 00	82	38	200	1400	220	1000	2/5/10/20
5208 101 *4 00	100	38	200	1300	260	700	2/5/10/20
5208 121 *4 00	120	38	150	1150	400	600	2/5/10/20
5208 151 *4 00	150	32	150	1100	530	500	2/5/10/20
5208 181 *4 00	180	32	150	1010	480	500	2/5/10/20
5208 221 *4 00	220	32	100	880	700	350	2/5/10/20
5208 271 *4 00	270	32	100	800	850	350	2/5/10/20
5208 331 *4 00	330	32	100	790	1500	300	2/5/10/20
5208 391 *4 00	390	32	100	690	1650	240	2/5/10/20
5208 471 *4 00	470	32	100	650	2300	200	2/5/10/20
5208 561 *4 00	560	30	100	580	2550	160	2/5/10/20
5298 681 *4 00	680	30	100	500	3200	160	2/5/10/20
5298 821 *4 00	820	30	100	480	3500	140	2/5/10/20
5208 681 *4 00	680	15	25,2	490	500	600	2/5/10/20
5208 821 *4 00	820	15	25,2	430	540	500	2/5/10/20
5208 102 *4 00	1000	15	7,96	380	840	400	2/5/10/20
5208 122 *4 00	1200	15	7,96	360	510	450	2/5/10/20
5208 152 *4 00	1500	15	7,96	340	1550	300	2/5/10/20
5208 182 *4 00	1800	15	7,96	300	1660	300	2/5/10/20
5208 222 *4 00	2200	15	7,96	240	2180	250	2/5/10/20
5208 272 *4 00	2700	15	7,96	250	2250	250	2/5/10/20
5208 332 *4 00	3300	15	7,96	200	2800	240	2/5/10/20
5208 392 *4 00	3900	15	7,96	200	4385	200	2/5/10/20
5208 472 *4 00	4700	15	7,96	185	3400	200	2/5/10/20

Keramik / Ceramic

Keramik / Ceramic

Ferrit / Ferrite

Ferrit / Ferrite

Musterkasten Bestellnummer: 5208 000 01 00
 Bestückt mit je 10 Stück der gängigsten Typen.

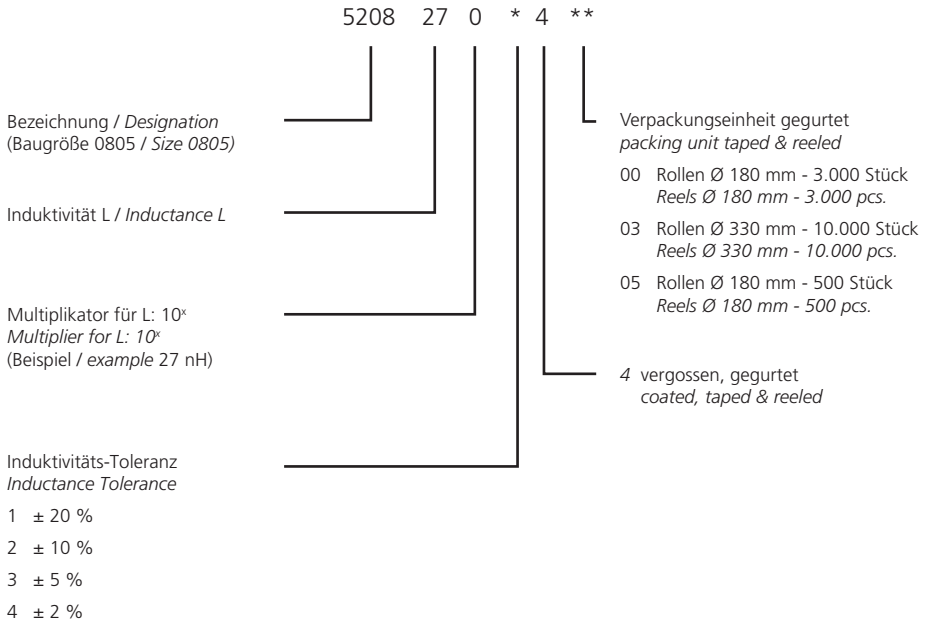
Sample Kit Part Number: 5208 000 01 00
 Contains a selection - 10 pcs. each - of various types.

Bestellhinweise Baugröße 0805 E-Serie 5208

Ordering Instructions Baugröße 0805 E-Serie 5208

Erklärung des Artikelnummern-Schlüssels

Explanation of Part Code



Bestellbeispiel / Ordering examples:

Chipspule / Chip Coil 0805, 270 nH, Tol. 5 %
 vergossen, gegurtet (3.000 Stück) / coated, taped & reeled (3.000 pcs.) = **5208 271 3400**

Elektrische Eigenschaften
Baugröße 0805
E-Serie 5208

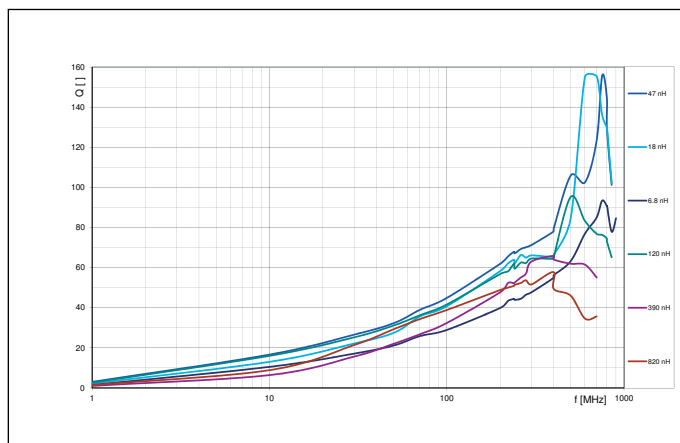
Electrical Characteristics
Size 0805
E-Series 5208

Spule auf Keramikkörper

Coil on ceramic body

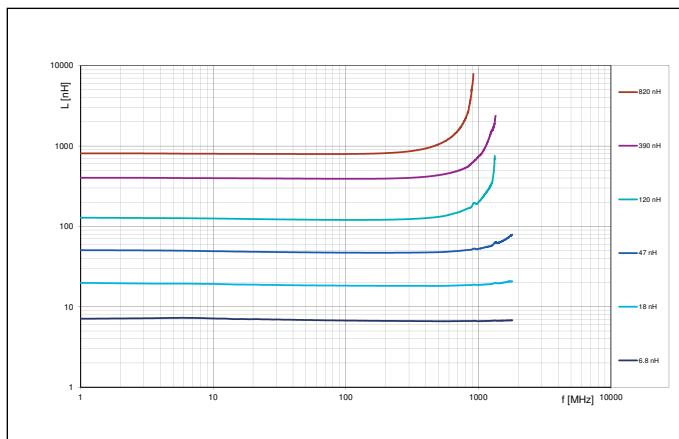
Güte Q über Frequenz f

Q-Factor vs. Frequency f



Induktivität L über Frequenz f

Inductance L vs. Frequency f



Elektrische Eigenschaften
Baugröße 0805
E-Serie 5208

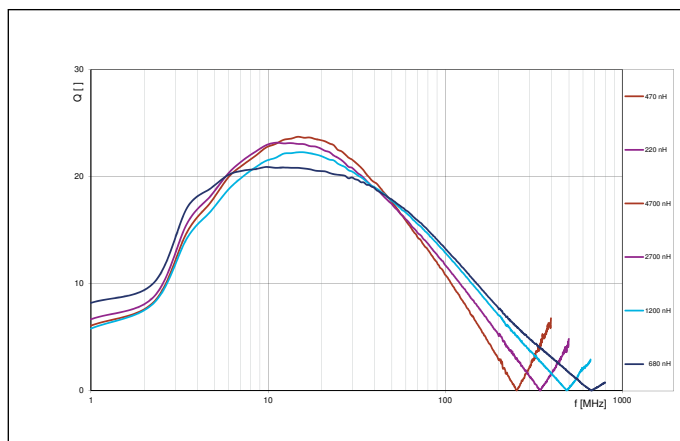
Electrical Characteristics
Size 0805
E-Series 5208

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

