



# Surface Mount Inductors



**Features:** B82496C Series: • High resonance frequency • Free of polarization effect • Close inductance tolerance • High mechanical stability  
 B82498F Series: • High resonance frequency • Suitable for reflow (IR and vapor phase) and wave soldering  
 B82422A Series: • Very wide temperature range (up to 185°C) • High Q factor • High resonance frequency  
 B82422H Series: • Very high current handling capability • Suitable for reflow soldering • Qualified to AEC-Q200  
 B82422T Series: • High Q factor • High resonance frequency • High inductance value  
 B82432T Series: • High current handling capability • Suitable for reflow (IR and vapor phase) and wave soldering  
 B82442A Series: • High current handling capability • High inductance value • Suitable for reflow (IR and vapor phase) and wave soldering

**B82442H Series:** • Very high current handling capability • High inductance value • Suitable for reflow (IR and vapor phase) and wave soldering  
 B82467, B82468, B82469, B82470 Series: • Low profile • High rated current • Low DC resistance  
 B82482 Series: • Wide temperature range • High rated current • Low DC resistance  
 B82476 Series: • Very high rated current • Low DC resistance • Suitable for reflow soldering  
 B82464G/AZ Series: • Wide temperature range • Very high rated current • Low DC resistance • Suitable for reflow soldering  
 B82475 Series: • Wide temperature range • Very high rated current • Low DC resistance  
 B82479 Series: • Very high rated current • Low DC resistance • Suitable for reflow soldering

Inductance (µH)	Inductance Tolerance	Q <sub>min</sub>	DC Res. Max. (Ω)	Current Rating (A)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Epcos Part No.
						1	10	50		Qty.	Pricing	
<b>Fig. 1 — B82496C Series — 0603</b>												
0.001	±0.3nH	7	0.02	1.8	495-1826-1-ND	.39	3.52	15.64	495-1826-2-ND	4,000	137.00/M	B82496C3109A
0.0015	±0.3nH	8	0.03	1.5	495-1832-1-ND†	.39	3.52	15.64	495-1832-2-ND	4,000	137.00/M	B82496C3159A
0.0018	±0.3nH	12	0.033	1.5	495-2028-1-ND†	.39	3.52	15.64	495-2028-2-ND	4,000	137.00/M	B82496C3189A
0.0022	±0.3nH	14	0.035	1.5	495-1835-1-ND†	.39	3.52	15.64	495-1835-2-ND	4,000	137.00/M	B82496C3229A
0.0027	±0.3nH	14	0.04	1.4	495-2030-1-ND†	.39	3.52	15.64	495-2030-2-ND	4,000	137.00/M	B82496C3279A
0.0033	±0.3nH	14	0.06	1.2	495-1837-1-ND†	.39	3.52	15.64	495-1837-2-ND	4,000	137.00/M	B82496C3339A
0.0039	±5%	14	0.065	1.1	495-2032-1-ND†	.41	3.72	16.52	495-2032-2-ND	4,000	145.00/M	B82496C3399J
0.0047	±5%	14	0.10	0.8	495-1839-1-ND†	.41	3.72	16.52	495-1839-2-ND	4,000	145.00/M	B82496C3479J
0.0056	±5%	14	0.15	0.7	495-2034-1-ND†	.41	3.72	16.52	495-2034-2-ND	4,000	145.00/M	B82496C3569J
0.0068	±5%	14	0.15	0.7	495-1841-1-ND†	.41	3.72	16.52	495-1841-2-ND	4,000	145.00/M	B82496C3689J
0.0082	±5%	14	0.18	0.65	495-1843-1-ND†	.41	3.72	16.52	495-1843-2-ND	4,000	145.00/M	B82496C3829J
0.01	±5%	14	0.20	0.60	495-1824-1-ND†	.41	3.72	16.52	495-1824-2-ND	4,000	145.00/M	B82496C3100J
0.012	±5%	14	0.35	0.45	495-1827-1-ND†	.41	3.72	16.52	495-1827-2-ND	4,000	145.00/M	B82496C3120J
0.015	±5%	14	0.40	0.42	495-1830-1-ND†	.41	3.72	16.52	495-1830-2-ND	4,000	145.00/M	B82496C3150J
0.018	±5%	14	0.45	0.40	495-2026-1-ND†	.41	3.72	16.52	495-2026-2-ND	4,000	145.00/M	B82496C3180J
0.022	±5%	14	0.50	0.38	495-1833-1-ND†	.41	3.72	16.52	495-1833-2-ND	4,000	145.00/M	B82496C3220J
0.027	±5%	14	0.55	0.36	495-2029-1-ND†	.41	3.72	16.52	495-2029-2-ND	4,000	145.00/M	B82496C3270J
0.033	±5%	14	0.60	0.35	495-1836-1-ND†	.41	3.72	16.52	495-1836-2-ND	4,000	145.00/M	B82496C3330J
0.039	±5%	14	0.80	0.30	495-2031-1-ND†	.41	3.72	16.52	495-2031-2-ND	4,000	145.00/M	B82496C3390J
0.047	±5%	14	0.95	0.27	495-1838-1-ND†	.41	3.72	16.52	495-1838-2-ND	4,000	145.00/M	B82496C3470J
0.056	±5%	14	1.2	0.25	495-2033-1-ND†	.41	3.72	16.52	495-2033-2-ND	4,000	145.00/M	B82496C3560J
0.068	±5%	14	1.3	0.23	495-1840-1-ND†	.41	3.72	16.52	495-1840-2-ND	4,000	145.00/M	B82496C3680J
0.082	±5%	14	1.5	0.22	495-1842-1-ND†	.41	3.72	16.52	495-1842-2-ND	4,000	145.00/M	B82496C3820J
0.1	±5%	14	1.8	0.20	495-1825-1-ND†	.41	3.72	16.52	495-1825-2-ND	4,000	145.00/M	B82496C3101J
0.12	±5%	5	3.0	0.16	495-1828-1-ND†	.41	3.72	16.52	495-1828-2-ND	4,000	145.00/M	B82496C3121J
0.15	±5%	5	5.0	0.13	495-1831-1-ND	.41	3.72	16.52	495-1831-2-ND	4,000	145.00/M	B82496C3151J
0.18	±5%	4	6.0	0.12	495-2027-1-ND	.41	3.72	16.52	495-2027-2-ND	4,000	145.00/M	B82496C3181J
0.22	±5%	4	7.0	0.11	495-1834-1-ND†	.41	3.72	16.52	495-1834-2-ND	4,000	145.00/M	B82496C3221J
† 495-1684-ND B82496C Series Inductor Kit 15 Each of Values Denoted. . . . . 77.03												
<b>Fig. 2 — B82498F Series — 0805</b>												
0.0027	±10%	50	0.03	1.0	495-2058-1-ND†	.76	6.82	30.32	495-2058-2-ND	3,000	265.00/M	B82498F3279K
0.0056	±10%	50	0.04	0.9	495-2113-1-ND†	.76	6.82	30.32	495-2113-2-ND	3,000	265.00/M	B82498F3569K
0.0068	±10%	50	0.05	0.8	495-1857-1-ND†	.76	6.82	30.32	495-1857-2-ND	3,000	265.00/M	B82498F3689K
0.0082	±10%	50	0.09	0.7	495-1859-1-ND†	.76	6.82	30.32	495-1859-2-ND	3,000	265.00/M	B82498F3829K
0.01	±5%	50	0.09	0.7	495-1848-1-ND†	.76	6.82	30.32	495-1848-2-ND	3,000	265.00/M	B82498F3100J
0.012	±5%	50	0.09	0.7	495-2035-1-ND†	.76	6.82	30.32	495-2035-2-ND	3,000	265.00/M	B82498F3120J
0.015	±5%	50	1.13	0.65	495-2036-1-ND†	.76	6.82	30.32	495-2036-2-ND	3,000	265.00/M	B82498F3150J
0.018	±5%	60	0.08	0.7	495-2037-1-ND†	.76	6.82	30.32	495-2037-2-ND	3,000	265.00/M	B82498F3180J
0.022	±5%	60	0.08	0.7	495-1850-1-ND†	.76	6.82	30.32	495-1850-2-ND	3,000	265.00/M	B82498F3220J
0.027	±5%	60	0.09	0.7	495-2038-1-ND†	.76	6.82	30.32	495-2038-2-ND	3,000	265.00/M	B82498F3270J
0.033	±5%	65	0.11	0.6	495-1852-1-ND†	.76	6.82	30.32	495-1852-2-ND	3,000	265.00/M	B82498F3330J
0.039	±5%	65	0.12	0.6	495-2040-1-ND†	.76	6.82	30.32	495-2040-2-ND	3,000	265.00/M	B82498F3390J
0.047	±5%	65	0.13	0.6	495-1854-1-ND†	.76	6.82	30.32	495-1854-2-ND	3,000	265.00/M	B82498F3470J
0.056	±5%	60	0.14	0.6	495-2041-1-ND†	.76	6.82	30.32	495-2041-2-ND	3,000	265.00/M	B82498F3560J
0.068	±5%	60	0.18	0.5	495-1856-1-ND†	.76	6.82	30.32	495-1856-2-ND	3,000	265.00/M	B82498F3680J
0.082	±5%	60	0.19	0.5	495-1858-1-ND†	.76	6.82	30.32	495-1858-2-ND	3,000	265.00/M	B82498F3820J
0.1	±5%	55	0.28	0.45	495-1849-1-ND†	.76	6.82	30.32	495-1849-2-ND	3,000	265.00/M	B82498F3101J
0.12	±5%	50	0.31	0.44	495-3433-1-ND†	.76	6.82	30.32	495-3433-2-ND	3,000	265.00/M	B82498F3121J
0.15	±5%	45	0.42	0.40	495-3434-1-ND†	.76	6.82	30.32	495-3434-2-ND	3,000	265.00/M	B82498F3151J
0.22	±5%	45	0.70	0.32	495-1851-1-ND†	.76	6.82	30.32	495-1851-2-ND	3,000	265.00/M	B82498F3221J
0.33	±5%	45	1.5	0.22	495-1853-1-ND†	.76	6.82	30.32	495-1853-2-ND	3,000	265.00/M	B82498F3331J
0.47	±5%	30	1.9	0.19	495-1855-1-ND†	.76	6.82	30.32	495-1855-2-ND	3,000	265.00/M	B82498F3471J
0.68	±5%	23	1.7	0.19	495-3436-1-ND†	.76	6.82	30.32	495-3436-2-ND	3,000	265.00/M	B82498F3681J
0.82	±5%	23	1.9	0.18	495-3435-1-ND†	.76	6.82	30.32	495-3435-2-ND	3,000	265.00/M	B82498F3821J
1.0	±5%	20	0.55	0.24	495-1844-1-ND	.99	8.94	39.74	495-1844-2-ND	3,000	348.00/M	B82498F1102J
2.2	±5%	20	1.6	0.13	495-1845-1-ND	.99	8.94	39.74	495-1845-2-ND	3,000	348.00/M	B82498F1222J
4.7	±5%	20	3.8	0.09	495-1846-1-ND	.99	8.94	39.74	495-1846-2-ND	3,000	348.00/M	B82498F1472J
6.8	±5%	20	4.7	0.08	495-1847-1-ND	.99	8.94	39.74	495-1847-2-ND	3,000	348.00/M	B82498F1682J
† 495-1685-ND B82498F Series Inductor Kit 15 Each of Values Denoted. . . . . 77.03												
<b>Fig. 3 — B82422A Series — 1210</b>												
0.0082	±10%	20	0.08	0.8	495-1721-1-ND	.55	4.94	21.96	495-1721-2-ND	2,000	192.00/M	B82422A3829K100
0.012	±10%	25	0.10	0.7	495-1966-1-ND	.34	3.09	13.72	495-1966-2-ND	2,000	192.00/M	B82422A3120K100
0.015	±10%	27	0.12	0.64	495-1709-1-ND†	.55	4.94	21.96	495-1709-2-ND	2,000	192.00/M	B82422A3150K100
0.022	±10%	30	0.14	0.6	495-1713-1-ND†	.55	4.94	21.96	495-1713-2-ND	2,000	192.00/M	B82422A3220K100
0.033	±10%	20	0.17	0.54	495-1715-1-ND†	.55	4.94	21.96	495-1715-2-ND	2,000	192.00/M	B82422A3330K100
0.047	±10%	26	0.19	0.51	495-1717-1-ND†	.55	4.94	21.96	495-1717-2-ND	2,000	192.00/M	B82422A3470K100
0.068	±10%	27	0.21	0.48	495-1971-1-ND†	.34	3.09	13.72	—	—	—	—
0.1	±10%	25	0.26	0.44	495-1708-1-ND†	.55	4.94	21.96	495-1708-2-ND	2,000	192.00/M	B82422A3101K100
0.12	±10%	22	0.32	0.4	495-1967-1-ND	.55	4.94	21.96	495-1967-2-ND	2,000	192.00/M	B82422A3121K100
0.15	±10%	25	0.33	0.39	495-1710-1-ND†	.55	4.94	21.96	495-1710-2-ND	2,000	192.00/M	B82422A3151K100
0.22	±10%	25	0.64	0.28	495-1714-1-ND†	.55	4.94	21.96	495-1714-2-ND	2,000	192.00/M	B82422A3221K100
0.27	±10%	20	0.90	0.235	495-1968-1-ND	.55	4.94	21.96	495-1968-2-ND	2,000	192.00/M	B82422A3271K100
0.33	±10%	22	1.3	0.2	495-1716-1-ND†	.55	4.94	21.96	495-1716-2-ND	2,000	192.00/M	B82422A3331K100
0.39	±10%	22	1.4	0.19	495-1970-1-ND	.55	4.94</					