



# Surface Mount Inductors

**Features:**

**B82422A Series:** • Very wide temperature range (up to 145°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  
**B82432C/T 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

**B82496C Series:** • High resonance frequency • Free of polarization effect • Close inductance tolerance • High mechanical stability  
**B82496F Series:** • High resonance frequency • Suitable for reflow (IR and vapor phase) and wave soldering  
**B82462A/G2/G4 Series:** • Wide temperature range • High rated current • Low DC resistance  
**B82464A/GZ Series:** • Wide temperature range • Very high rated current • Low DC resistance • Suitable for reflow soldering  
**B82470A Series:** • Low profile • High rated current • Low DC resistance  
**B82476A Series:** • Very high rated current • Low DC resistance • Suitable for reflow soldering  
**B82477G2/G4 Series:** • Wide temperature range • Very high rated current • Low DC resistance  
**B82479A1 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	50		Qty.	Pricing		
<b>Fig. 1 — B82422A Series — 1210</b>												
0.0082	±10%	20	0.08	0.8	495-1721-1-ND	.62	5.54	24.64	495-1721-2-ND	2,000	145.88/M	B82422A3829K100
0.012	±10%	25	0.10	0.7	495-1966-1-ND	.38	3.47	15.40	—	—	—	B82422A3120K100
0.015	±10%	27	0.12	0.64	495-1709-1-ND‡	.62	5.54	24.64	495-1709-2-ND	2,000	215.46/M	B82422A3150K100
0.022	±10%	30	0.14	0.6	495-1713-1-ND‡	.62	5.54	24.64	495-1713-2-ND	2,000	215.46/M	B82422A3220K100
0.033	±10%	20	0.17	0.54	495-1715-1-ND‡	.62	5.54	24.64	495-1715-2-ND	2,000	215.46/M	B82422A3330K100
0.047	±10%	26	0.19	0.51	495-1717-1-ND‡	.62	5.54	24.64	495-1717-2-ND	2,000	215.46/M	B82422A3470K100
0.1	±10%	25	0.26	0.44	495-1708-1-ND‡	.62	5.54	24.64	495-1708-2-ND	2,000	215.46/M	B82422A3101K100
0.12	±10%	22	0.32	0.4	495-1967-1-ND	.62	5.54	24.64	495-1967-2-ND	2,000	215.46/M	B82422A3121K100
0.15	±10%	25	0.33	0.39	495-1710-1-ND‡	.62	5.54	24.64	495-1710-2-ND	2,000	215.46/M	B82422A3151K100
0.22	±10%	25	0.64	0.28	495-1714-1-ND‡	.62	5.54	24.64	495-1714-2-ND	2,000	215.46/M	B82422A3221K100
0.27	±10%	20	0.90	0.235	495-1968-1-ND	.62	5.54	24.64	495-1968-2-ND	2,000	215.46/M	B82422A3271K100
0.33	±10%	22	1.3	0.2	495-1716-1-ND‡	.62	5.54	24.64	495-1716-2-ND	2,000	215.46/M	B82422A3331K100
0.39	±10%	22	1.4	0.19	495-1970-1-ND	.62	5.54	24.64	495-1970-2-ND	2,000	215.46/M	B82422A3391K100
0.47	±10%	22	2.2	0.15	495-1718-1-ND‡	.62	5.54	24.64	495-1718-2-ND	2,000	215.46/M	B82422A3471K100
0.68	±10%	22	2.4	0.145	495-1972-1-ND‡	.62	5.54	24.64	495-1972-2-ND	2,000	215.46/M	B82422A3681K100
0.82	±10%	22	2.5	0.14	495-1720-1-ND	.62	5.54	24.64	495-1720-2-ND	2,000	145.88/M	B82422A3821K100
1.0	±10%	20	0.34	0.38	495-1694-1-ND‡	.62	5.54	24.64	495-1694-2-ND	2,000	215.46/M	B82422A1102K100
1.5	±10%	20	0.50	0.34	495-1697-1-ND‡	.62	5.54	24.64	495-1697-2-ND	2,000	215.46/M	B82422A1152K100
1.8	±10%	25	0.60	0.29	495-1963-1-ND	.62	5.54	24.64	495-1963-2-ND	2,000	215.46/M	B82422A1182K100
2.2	±10%	25	0.75	0.27	495-1699-1-ND‡	.62	5.54	24.64	495-1699-2-ND	2,000	215.46/M	B82422A1222K100
3.3	±10%	27	1.2	0.2	495-1701-1-ND‡	.62	5.54	24.64	495-1701-2-ND	2,000	215.46/M	B82422A1332K100
4.7	±10%	27	2.2	0.15	495-1703-1-ND‡	.62	5.54	24.64	495-1703-2-ND	2,000	215.46/M	B82422A1472K100
6.8	±10%	27	2.8	0.135	495-1705-1-ND‡	.62	5.54	24.64	495-1705-2-ND	2,000	215.46/M	B82422A1682K100
8.2	±10%	27	3.0	0.13	495-1965-1-ND	.62	5.54	24.64	495-1965-2-ND	2,000	215.46/M	B82422A1822K100
10	±10%	27	1.6	0.18	495-1695-1-ND‡	.62	5.54	24.64	495-1695-2-ND	2,000	215.46/M	B82422A1103K100
12	±10%	27	1.65	0.175	495-1962-1-ND	.62	5.54	24.64	495-1962-2-ND	2,000	215.46/M	B82422A1123K100
15	±10%	27	1.85	0.165	495-1698-1-ND‡	.62	5.54	24.64	495-1698-2-ND	2,000	215.46/M	B82422A1153K100
22	±10%	27	2.65	0.14	495-1700-1-ND‡	.62	5.54	24.64	495-1700-2-ND	2,000	215.46/M	B82422A1223K100
33	±10%	27	4.5	0.105	495-1702-1-ND‡	.62	5.54	24.64	495-1702-2-ND	2,000	215.46/M	B82422A1333K100
47	±10%	27	7.0	0.085	495-1704-1-ND‡	.62	5.54	24.64	495-1704-2-ND	2,000	215.46/M	B82422A1473K100
100	±10%	27	11.5	0.065	495-1696-1-ND‡	.62	5.54	24.64	495-1696-2-ND	2,000	215.46/M	B82422A1104K100
<b>Fig. 2 — B82422H Series — 1210</b>												
1.0	±10%	8	0.10	1.15	495-2637-1-ND	.82	7.33	32.57	495-2637-2-ND	2,000	285.03/M	B82422H1102K
2.2	±10%	8	0.16	0.8	495-2643-1-ND	.82	7.33	32.57	495-2643-2-ND	2,000	285.03/M	B82422H1222K
3.3	±10%	8	0.18	0.77	495-2646-1-ND	.82	7.33	32.57	495-2646-2-ND	2,000	285.03/M	B82422H1332K
4.7	±10%	8	0.25	0.7	495-2649-1-ND	.82	7.33	32.57	495-2649-2-ND	2,000	285.03/M	B82422H1472K
6.8	±10%	8	0.35	0.57	495-2652-1-ND	.82	7.33	32.57	495-2652-2-ND	2,000	285.03/M	B82422H1682K
10	±10%	12	0.46	0.5	495-2638-1-ND	.82	7.33	32.57	495-2638-2-ND	2,000	285.03/M	B82422H1103K
22	±10%	12	1.0	0.33	495-2644-1-ND	.82	7.33	32.57	495-2644-2-ND	2,000	285.03/M	B82422H1223K
47	±10%	15	2.1	0.23	495-2650-1-ND	.82	7.33	32.57	495-2650-2-ND	2,000	285.03/M	B82422H1473K
100	±10%	20	4.8	0.15	495-2639-1-ND	.82	7.33	32.57	495-2639-2-ND	2,000	285.03/M	B82422H1104K
220	±10%	20	10.9	0.1	495-2645-1-ND	.82	7.33	32.57	495-2645-2-ND	2,000	285.03/M	B82422H1224K
330	±10%	20	13	0.09	495-2648-1-ND	.82	7.33	32.57	495-2648-2-ND	2,000	285.03/M	B82422H1334K
470	±10%	20	20	0.076	495-2651-1-ND	.82	7.33	32.57	495-2651-2-ND	2,000	285.03/M	B82422H1474K
680	±10%	20	31	0.061	495-2654-1-ND	.82	7.33	32.57	495-2654-2-ND	2,000	285.03/M	B82422H1684K
<b>Fig. 3 — B82422T Series — 1210</b>												
1.0	±10%	30	0.6	0.4	495-1729-1-ND	.53	4.75	21.10	495-1729-2-ND	2,000	185.16/M	B82422T1102K
10	±10%	27	2.1	0.15	495-1730-1-ND	.53	4.75	21.10	495-1730-2-ND	2,000	185.16/M	B82422T1103K
15	±10%	27	2.8	0.13	495-2655-1-ND	.33	2.96	13.17	—	—	—	B82422T1153K
<b>Fig. 4 — B82432C Series — 1812</b>												
1.0	±10%	40	0.28	0.6	495-1743-1-ND	1.14	10.27	45.65	495-1743-2-ND	2,500	399.49/M	B82432C1102K
22	±10%	30	1.45	0.26	495-1748-1-ND	1.14	10.27	45.65	495-1748-2-ND	2,500	399.49/M	B82432C1223K
100	±10%	30	4.7	0.145	495-1745-1-ND	1.14	10.27	45.65	495-1745-2-ND	2,500	399.49/M	B82432C1104K
<b>Fig. 4 — B82432T Series — 1812</b>												
1.0	±10%	10	0.08	1.3	495-1753-1-ND‡	1.09	9.75	43.36	495-1753-2-ND	2,500	379.30/M	B82432T1102K
1.5	±10%	10	0.11	1.15	495-1975-1-ND‡	1.09	9.75	43.36	495-1975-2-ND	2,500	379.30/M	B82432T1152K
1.8	±10%	10	0.13	1.05	495-1978-1-ND‡	1.09	9.75	43.36	495-1978-2-ND	2,500	379.30/M	B82432T1182K
2.2	±10%	10	0.15	1.0	495-1757-1-ND‡	1.09	9.75	43.36	495-1757-2-ND	2,500	379.30/M	B82432T1222K
3.3	±10%	10	0.19	0.9	495-1760-1-ND‡	1.09	9.75	43.36	495-1760-2-ND	2,500	379.30/M	B82432T1332K
3.9	±10%	10	0.20	0.85	495-1980-1-ND‡	1.09	9.75	43.36	495-1980-2-ND	2,500	379.30/M	B82432T1392K
4.7	±10%	10	0.22	0.8	495-1763-1-ND‡	1.09	9.75	43.36	495-1763-2-ND	2,500	379.30/M	B82432T1472K
6.8	±10%	10	0.30	0.7	495-1766-1-ND‡	1.09	9.75	43.36	495-1766-2-ND	2,500	379.30/M	B82432T1682K
8.2	±10%	10	0.33	0.67	495-1983-1-ND‡	1.09	9.75	43.36	495-1983-2-ND	2,500	379.30/M	B82432T1822K
10	±10%	10	0.35	0.65	495-1754-1-ND‡	1.09	9.75	43.36	495-1754-2-ND	2,500	379.30/M	B82432T1103K
15	±10%	10	0.50	0.6	495-1976-1-ND‡	1.09	9.75	43.36	495-1976-2-ND	2,500	379.30/M	B82432T1153K
22	±10%	10	0.70	0.45	495-1758-1-ND‡	1.09	9.75	43.36	495-1758-2-ND	2,500	379.30/M	B82432T1223K
33	±10%	10	1.2	0.4	495-1761-1-ND‡	1.09	9.75	43.36	495-1761-2-ND	2,500	379.30/M	B82432T1333K
39	±10%	10	1.3	0.38	495-1981-1-ND‡	1.09	9.75	43.36	495-1981-2-ND	2,500	379.30/M	B82432T1393K
47	±10%	10	1.35	0.35	495-1764-1-ND‡	1.09	9.75	43.36	495-1764-2-ND	2,500	379.30/M	B82432T1473K
56	±10%	10	2.0	0.3	495-1982-1-ND	1.09	9.75	43.36	495-1982-2-ND	2,500	379.30/M	B82432T1563K
68	±10%	10	2.5	0.25	495-1767-1-ND‡	1.09	9.75	43.36	495-1767-2-ND	2,500	379.30/M	B82432T1683K
100	±10%	20	3.5	0.2	495-1755-1-ND‡	1.09	9.75	43.36	495-1755-2-ND	2,500	379.30/M	B82432T1104K
150	±10%	20	6.0	0.16	495-1977-1-ND‡	1.09	9.75	43.36	495-1977-2-ND	2,500	379.30/M	B82432T1154K
220	±10%	20	7.5	0.13	495-1759-1-ND‡	1.						