

# MOX-0402CS



## Ceramic Surface Mount Wire Wound Chip Inductors

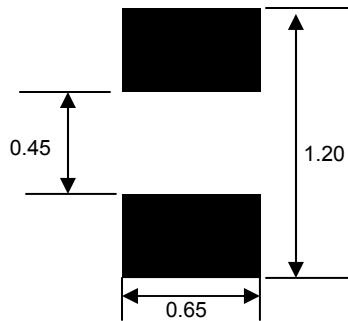
MoxiE's MOX-0402CS series of surface mount chip inductors are widely used in PDA's, notebooks, LCD televisions and cable modems. The wire wound design features a higher self resonate frequency and a better Q factor that provides stable performance. A precision tolerance of 2% is available.

### Features:

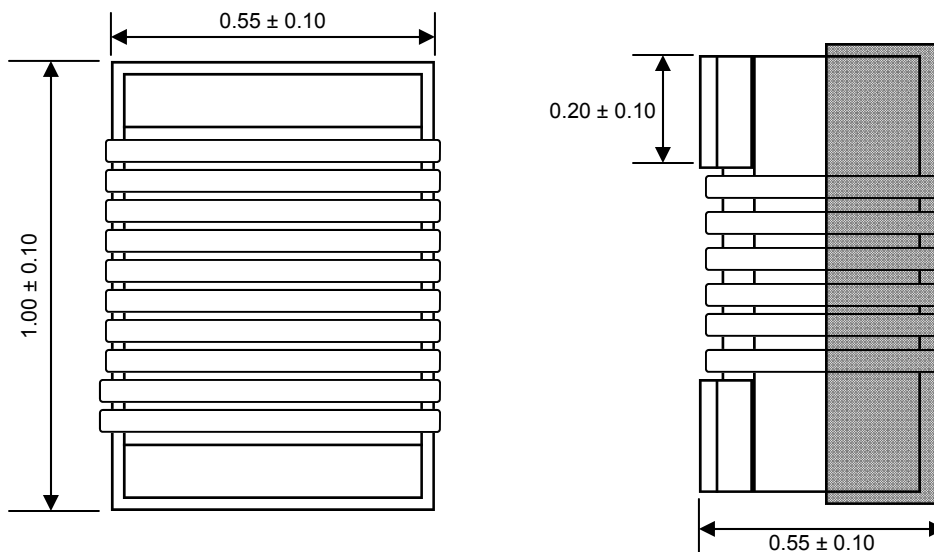
- Low cost.
- Operating temperature: -40°C to +125°C.
- Excellent solderability & resistance to soldering heat.
- RoHS compliant.
- Wide range of inductance values to accommodate various designs.



## LANDING PATTERN



## MECHANICAL DIMENSIONS





## ELECTRICAL SPECIFICATIONS

MOXIE PART NUMBER	INDUCTANCE (nH)	TOLERANCE (%)	900 MHz		1.7 GHz		SRF MIN. (GHz)	DCR MAX. ( $\Omega$ )	IRMS (mA)
			L (TYP.)	Q (TYP.)	L (TYP.)	Q (TYP.)			
MOX-0402CS-1R0	1.0	J	1.02	77	1.02	69	12.70	0.045	1380
MOX-0402CS-1R2	1.2	J	1.17	28	1.17	38	12.90	0.090	750
MOX-0402CS-1R8	1.8	J	1.78	54	1.78	75	12.00	0.070	1050
MOX-0402CS-1R9	1.9	J	1.72	68	1.74	82	11.30	0.070	1050
MOX-0402CS-2R0	2.0	G, J	1.93	54	1.93	75	11.10	0.070	1050
MOX-0402CS-2R2	2.2	G, J	2.19	59	2.23	100	10.80	0.070	980
MOX-0402CS-2R4	2.4	G, J	2.24	51	2.27	68	10.50	0.068	800
MOX-0402CS-2R7	2.7	G, J	2.58	42	2.60	61	10.40	0.120	650
MOX-0402CS-3R3	3.3	G, J	3.10	65	3.12	87	7.00	0.066	850
MOX-0402CS-3R6	3.6	G, J	3.56	45	3.62	71	6.80	0.066	850
MOX-0402CS-3R9	3.9	G, J	3.89	50	4.00	75	6.00	0.066	840
MOX-0402CS-4R3	4.3	G, J	4.19	47	4.30	71	6.00	0.091	710
MOX-0402CS-4R7	4.7	G, J	4.55	48	4.68	68	4.77	0.130	650
MOX-0402CS-5R1	5.1	G, J	5.15	56	5.25	82	4.80	0.083	810
MOX-0402CS-5R6	5.6	G, J	5.16	54	5.28	81	4.80	0.083	770
MOX-0402CS-6R2	6.2	G, J	6.16	52	6.37	76	4.80	0.083	760
MOX-0402CS-6R8	6.8	G, J	6.56	63	6.93	78	4.80	0.083	690
MOX-0402CS-7R5	7.5	G, J	7.91	60	8.22	88	4.80	0.10	680
MOX-0402CS-8R2	8.2	G, J	8.50	57	8.85	84	4.40	0.10	680
MOX-0402CS-8R7	8.7	G, J	8.78	54	9.21	73	4.10	0.20	490
MOX-0402CS-9R0	9.0	G, J	9.07	62	9.53	78	4.16	0.10	680
MOX-0402CS-9R5	9.5	G, J	9.42	54	9.98	69	4.00	0.20	490
MOX-0402CS-10N	10	G, J	9.8	50	10.10	67	3.90	0.20	480
MOX-0402CS-11N	11	G, J	10.7	52	11.20	78	3.68	0.12	650
MOX-0402CS-12N	12	G, J	11.9	53	12.70	71	3.60	0.12	650
MOX-0402CS-13N	13	G, J	13.4	51	14.63	57	3.45	0.21	450
MOX-0402CS-15N	15	G, J	14.6	55	15.50	77	3.28	0.17	570
MOX-0402CS-16N	16	G, J	16.6	46	18.86	47	3.10	0.22	560
MOX-0402CS-18N	18	G, J	18.3	57	20.28	62	3.10	0.23	440
MOX-0402CS-19N	19	G, J	19.1	50	21.10	67	3.04	0.20	490
MOX-0402CS-20N	20	G, J	20.7	52	23.66	53	3.00	0.25	430
MOX-0402CS-22N	22	G, J	23.2	53	26.75	53	2.80	0.30	410
MOX-0402CS-23N	23	G, J	23.8	49	26.90	64	2.72	0.30	410
MOX-0402CS-24N	24	G, J	25.1	51	29.50	50	2.70	0.30	400
MOX-0402CS-27N	27	G, J	28.7	49	33.50	63	2.48	0.30	400
MOX-0402CS-30N	30	G, J	31.1	46	38.50	39	2.35	0.30	400
MOX-0402CS-33N	33	G, J	34.9	31	41.74	32	2.35	0.30	400
MOX-0402CS-36N	36	G, J	39.5	44	48.40	53	2.32	0.44	340
MOX-0402CS-39N	39	G, J	41.7	47	50.23	45	2.10	0.55	210
MOX-0402CS-40N	40	G, J	39.0	44	47.40	33	2.24	0.44	320
MOX-0402CS-43N	43	G, J	45.8	46	61.55	34	2.03	0.81	110
MOX-0402CS-47N	47	G, J	50.0	38	-	-	2.10	0.83	160
MOX-0402CS-51N	51	G, J	56.6	40	-	-	1.75	0.82	110
MOX-0402CS-56N	56	G, J	62.8	42	-	-	1.76	0.97	110
MOX-0402CS-68N	68	G, J	78.2	36	-	-	1.62	1.12	100
MOX-0402CS-82N	82	G, J	-	-	-	-	1.26	1.55	60
MOX-0402CS-R10	100	G, J	-	-	-	-	1.16	2.00	40
MOX-0402CS-R12	120	J	-	-	-	-	1.90	1.78	50

- Available Tolerances: G =  $\pm 2\%$ , J = 5%, K =  $\pm 10\%$
- Q is measured on a HP-4287A RF LCR meter with a HP-16193 fixture attached.
- RoHS Compliant.
- Moxie Inductor Corporation specifications are subject to change without notice.