

# MOX-0805CS



## Ceramic Surface Mount Wire Wound Chip Inductors

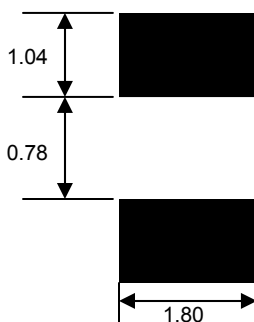
MoxiE's MOX-0805CS series of surface mount chip inductors are widely used in PDA's, notebooks, LCD televisions and cable modems. The wire wound design features a higher self resonate frequency and a better Q factor that provides stable performance. A precision tolerance of  $\pm 0.2\text{nH}$  is available.

### Features:

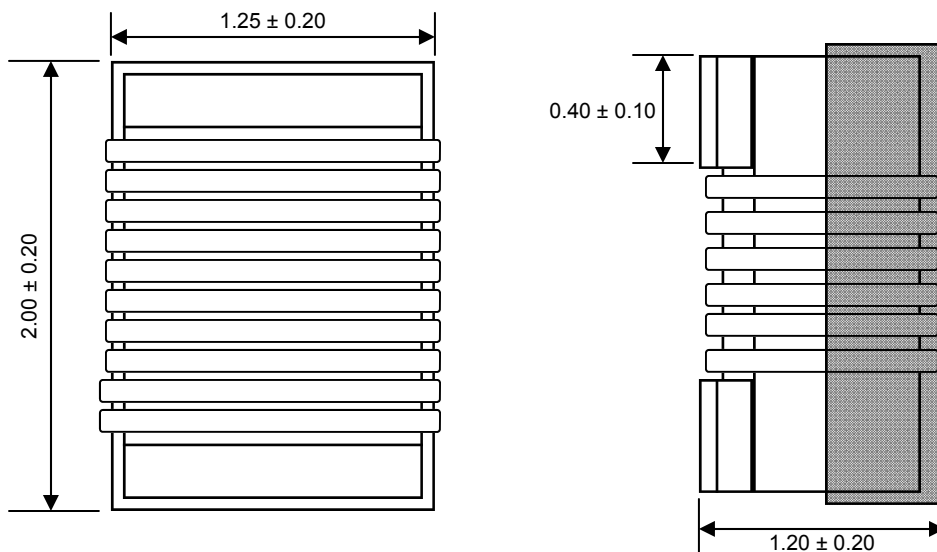
- Low cost.
- Operating temperature:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ .
- Excellent solderability & resistance to soldering heat.
- RoHS compliant.
- Wide range of inductance values to accommodate various designs.



## LANDING PATTERN



## MECHANICAL DIMENSIONS





## ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Inductance (nH)	Tolerance (%)	Q Min.	SRF Min. (MHz)	RDC Max. ( $\Omega$ )	IDC Max. (mA)
MOX-0805CS-2N2	2.2 @ 250 MHz	B, S	80 @ 1000 MHz	7900	0.06	800
MOX-0805CS-3N0	3.0 @ 250 MHz	B, S	80 @ 1000 MHz	7900	0.08	800
MOX-0805CS-3N3	3.3 @ 250 MHz	B, S	60 @ 1000 MHz	6000	0.08	800
MOX-0805CS-3N9	3.9 @ 250 MHz	B, S	60 @ 1000 MHz	6000	0.06	700
MOX-0805CS-4N7	4.7 @ 250 MHz	B, S	60 @ 1000 MHz	5800	0.06	700
MOX-0805CS-5N1	5.1 @ 250 MHz	J, K	60 @ 1000 MHz	5800	0.08	700
MOX-0805CS-5N6	5.6 @ 250 MHz	B, J, K	60 @ 1000 MHz	5700	0.14	700
MOX-0805CS-6N8	6.8 @ 250 MHz	B, J, K	60 @ 1000 MHz	5500	0.06	700
MOX-0805CS-7N5	7.5 @ 250 MHz	K,J,B	60 @ 1000 MHz	4800	0.106	700
MOX-0805CS-8N2	8.2 @ 250 MHz	G,J,K	60 @ 1000 MHz	5500	0.06	700
MOX-0805CS-10N	10 @ 250 MHz	G,J,K	60 @ 500 MHz	4800	0.08	700
MOX-0805CS-12N	12 @ 250 MHz	G,J,K	60 @ 500 MHz	4100	0.08	700
MOX-0805CS-15N	15 @ 250 MHz	G,J,K	60 @ 500 MHz	3600	0.08	700
MOX-0805CS-18N	18 @ 250 MHz	G,J,K	60 @ 500 MHz	3400	0.08	700
MOX-0805CS-22N	22 @ 250 MHz	G,J,K	60 @ 500 MHz	3300	0.10	700
MOX-0805CS-27N	27 @ 250 MHz	G,J,K	60 @ 500 MHz	2600	0.12	600
MOX-0805CS-33N	33 @ 250 MHz	G,J,K	60 @ 500 MHz	2400	0.15	600
MOX-0805CS-39N	39 @ 250 MHz	G,J,K	60 @ 500 MHz	2100	0.18	600
MOX-0805CS-43N	43 @ 250 MHz	G,J,K	60 @ 500 MHz	2100	0.28	600
MOX-0805CS-47N	47 @ 200 MHz	G,J,K	60 @ 500 MHz	2000	0.15	500
MOX-0805CS-56N	56 @ 200 MHz	G,J,K	60 @ 500 MHz	1600	0.25	500
MOX-0805CS-68N	68 @ 200 MHz	G,J,K	60 @ 500 MHz	1450	0.27	500
MOX-0805CS-82N	82 @ 150 MHz	G,J,K	60 @ 500 MHz	1350	0.32	500
MOX-0805CS-R10	100 @ 150 MHz	G,J,K	60 @ 500 MHz	1200	0.43	500
MOX-0805CS-R12	120 @ 150 MHz	G,J,K	50 @ 250 MHz	1100	0.48	500
MOX-0805CS-R15	150 @ 100 MHz	G,J,K	50 @ 250 MHz	950	0.56	400
MOX-0805CS-R18	180 @ 100 MHz	G,J,K	50 @ 250 MHz	900	0.78	400
MOX-0805CS-R22	220 @ 100 MHz	G,J,K	50 @ 250 MHz	860	1.00	400
MOX-0805CS-R27	270 @ 100 MHz	G,J,K	45 @ 250 MHz	850	1.46	350
MOX-0805CS-R33	330 @ 100 MHz	G,J,K	45 @ 250 MHz	800	1.65	300
MOX-0805CS-R39	390 @ 100 MHz	G,J,K	45 @ 250 MHz	780	2.20	290
MOX-0805CS-R47	470 @ 50 MHz	J,K	33 @ 100 MHz	375	1.76	250
MOX-0805CS-R56	560 @ 25 MHz	J,K	23 @ 50 MHz	340	1.90	230
MOX-0805CS-R68	680 @ 25 MHz	J,K	23 @ 50 MHz	188	2.20	200
MOX-0805CS-R82	820 @ 25 MHz	J,K	23 @ 50 MHz	215	2.35	180



## MOX-0805CS ENGINEERING NOTES

- Measuring Frequency (L) 100 kHz
- Available Tolerances: B =  $\pm 0.2nH$ , S =  $\pm 0.3nH$ , 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.