

# MOX-1210CS

**MoxiE**  
INDUCTOR CORPORATION

## Ceramic Surface Mount Wire Wound Chip Inductors

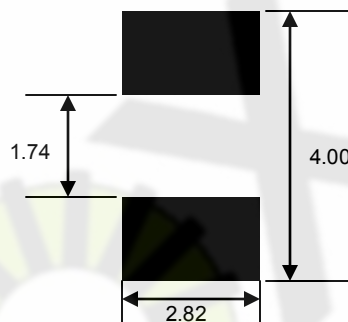
MoxiE's MOX-1210CS series of high current, surface mount chip inductors are widely used in PDA's, notebooks, LCD televisions and cable modems. The wire wound design features a higher self resonate frequency and a industry leading Q factor that provides stable performance. A precision tolerance of  $\pm 0.2\text{nH}$  is available.

### Features:

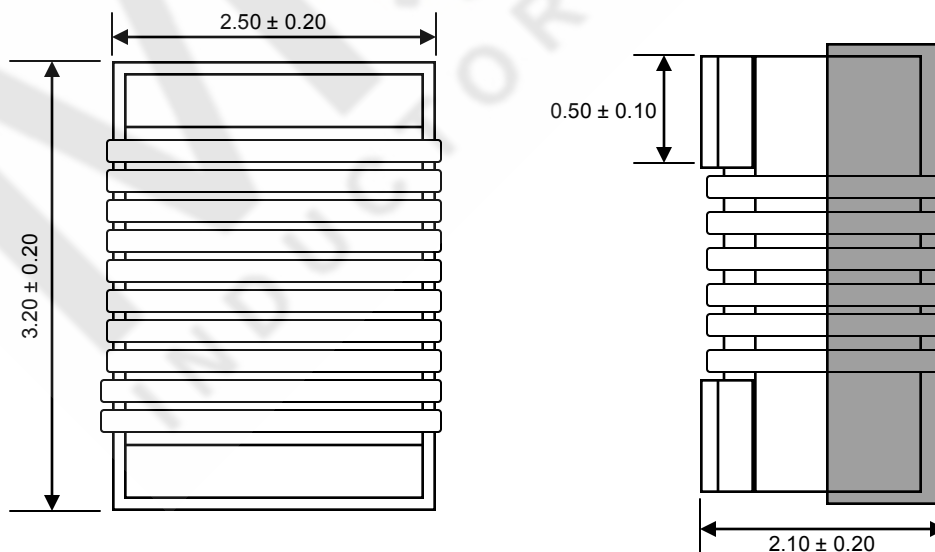
- High current.
- Operating temperature:  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$ .
- Excellent solderability & resistance to soldering heat.
- RoHS compliant.



## LANDING PATTERN



## MECHANICAL DIMENSIONS



1



## ELECTRICAL SPECIFICATIONS

Part Number	Inductance (nH)	Tolerance (%)	Q Min.	SRF Min. (MHz)	RDC Max. ( $\Omega$ )	IDC Max. (mA)
MOX-1210CS-3N3	3.3 @ 100 MHz	B,S	50 @ 1000 MHz	6000	0.06	1000
MOX-1210CS-6N8	6.8 @ 100 MHz	B,J,K	50 @ 1000 MHz	5500	0.06	1000
MOX-1210CS-8N2	8.2 @ 100 MHz	B,J,K	50 @ 1000 MHz	5500	0.06	1000
MOX-1210CS-10N	10 @ 100 MHz	G,J,K	50 @ 1000 MHz	4300	0.08	1000
MOX-1210CS-12N	12 @ 100 MHz	G,J,K	60 @ 500 MHz	3600	0.08	1000
MOX-1210CS-15N	15 @ 100 MHz	G,J,K	60 @ 500 MHz	2700	0.08	1000
MOX-1210CS-18N	18 @ 100 MHz	G,J,K	60 @ 350 MHz	2700	0.10	1000
MOX-1210CS-22N	22 @ 100 MHz	G,J,K	60 @ 350 MHz	2500	0.10	1000
MOX-1210CS-27N	27 @ 100 MHz	G,J,K	60 @ 350 MHz	1800	0.10	1000
MOX-1210CS-33N	33 @ 100 MHz	G,J,K	60 @ 350 MHz	1700	0.10	1000
MOX-1210CS-39N	39 @ 100 MHz	G,J,K	60 @ 350 MHz	1500	0.10	1000
MOX-1210CS-47N	47 @ 100 MHz	G,J,K	60 @ 350 MHz	1500	0.10	1000
MOX-1210CS-56N	56 @ 100 MHz	G,J,K	60 @ 350 MHz	1350	0.12	1000
MOX-1210CS-68N	68 @ 100 MHz	G,J,K	60 @ 350 MHz	1300	0.15	1000
MOX-1210CS-82N	82 @ 100 MHz	G,J,K	60 @ 350 MHz	1100	0.18	1000
MOX-1210CS-R10	100 @ 100 MHz	G,J,K	45 @ 100 MHz	1100	0.18	1000
MOX-1210CS-R12	120 @ 25 MHz	G,J,K	45 @ 100 MHz	950	0.20	800
MOX-1210CS-R15	150 @ 25 MHz	G,J,K	45 @ 100 MHz	880	0.22	800
MOX-1210CS-R18	180 @ 25 MHz	G,J,K	45 @ 100 MHz	800	0.33	800
MOX-1210CS-R22	220 @ 25 MHz	G,J,K	45 @ 100 MHz	730	0.45	800
MOX-1210CS-R27	270 @ 25 MHz	G,J,K	45 @ 100 MHz	650	0.75	600
MOX-1210CS-R33	330 @ 25 MHz	G,J,K	45 @ 100 MHz	570	0.90	500
MOX-1210CS-R39	390 @ 25 MHz	G,J,K	45 @ 100 MHz	530	1.06	470
MOX-1210CS-R47	470 @ 25 MHz	G,J,K	45 @ 100 MHz	480	1.17	425
MOX-1210CS-R56	560 @ 25 MHz	G,J,K	45 @ 100 MHz	430	1.50	310
MOX-1210CS-R68	680 @ 25 MHz	G,J,K	45 @ 100 MHz	380	2.07	230
MOX-1210CS-R75	750 @ 25 MHz	G,J,K	45 @ 100 MHz	360	2.21	200
MOX-1210CS-R82	820 @ 25 MHz	G,J,K	45 @ 100 MHz	350	2.31	180
MOX-1210CS-R91	910 @ 25 MHz	G,J,K	45 @ 100 MHz	330	3.18	150
MOX-1210CS-1R0	1000 @ 25 MHz	G,J,K	35 @ 50 MHz	310	3.30	120



## MOX-1210CS ENGINEERING NOTES

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