

# MOX-1008CS



**MoxiE**  
INDUCTOR CORPORATION

## Ceramic Surface Mount Wire Wound Chip Inductors

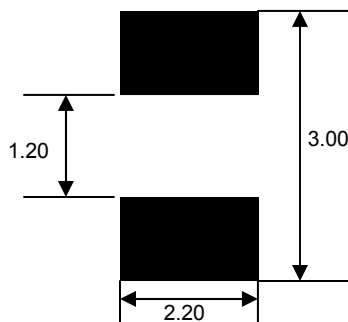
MoxiE's MOX-1008CS series of surface mount chip inductors are widely used in PDA's, notebooks, LCD televisions and cable modems. The wire wound design features a higher self resonate frequency and a better Q factor that provides stable performance. A precision tolerance of  $\pm 0.2nH$  is available.

### Features:

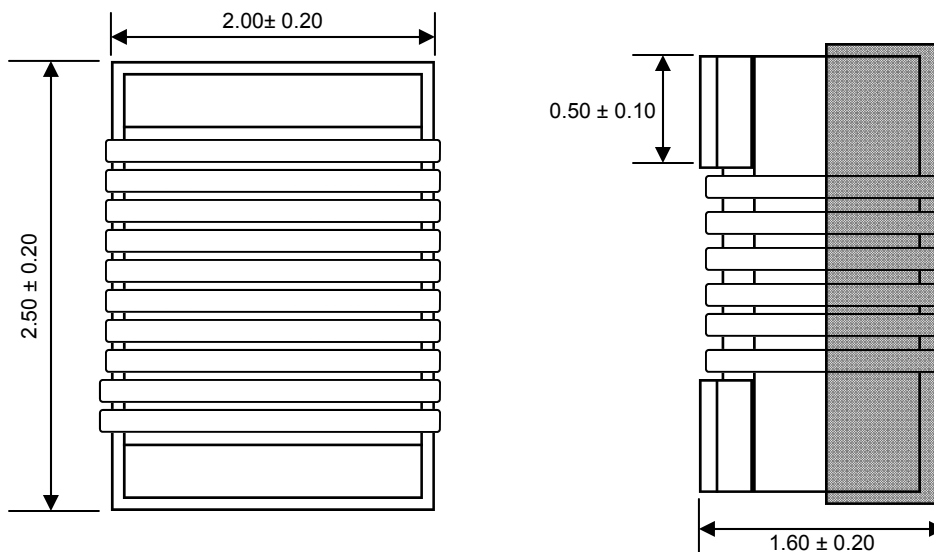
- Low cost.
- Operating temperature:  $-40^{\circ}C$  to  $+125^{\circ}C$ .
- Excellent solderability & resistance to soldering heat.
- RoHS compliant.
- Wide range of inductance values to accommodate various designs.



## LANDING PATTERN



## MECHANICAL DIMENSIONS



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## ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Inductance (nH)	Available Tolerances	Test Frequency	Q (Minimum)	SRF (MHz) Minimum	RDC ( $\Omega$ ) Maximum	IDC (mA)
MOX-1008CS-3N3□	3.3	$\pm 0.2\text{nH(B)}$ , $\pm 0.3\text{nH(S)}$	100 MHz	50 @ 1000MHz	6000	0.06	1000
MOX-1008CS-6N8□	6.8	$\pm 0.2\text{nH(B)}$ , 5%(J), 10%(K)	100 MHz	50 @ 1000MHz	5500	0.06	1000
MOX-1008CS-8N2□	8.2	2%(G), 5%(J), 10%(K)	100 MHz	50 @ 1000MHz	5500	0.06	1000
MOX-1008CS-10N□	10.0	2%(G), 5%(J), 10%(K)	100 MHz	50 @ 1000MHz	4300	0.08	1000
MOX-1008CS-12N□	12.0	2%(G), 5%(J), 10%(K)	100 MHz	60 @ 500MHz	3600	0.08	1000
MOX-1008CS-15N□	15.0	2%(G), 5%(J), 10%(K)	100 MHz	60 @ 500MHz	2700	0.08	1000
MOX-1008CS-18N□	18.0	2%(G), 5%(J), 10%(K)	100 MHz	60 @ 350MHz	2700	0.10	1000
MOX-1008CS-22N□	22.0	2%(G), 5%(J), 10%(K)	100 MHz	60 @ 350MHz	2500	0.10	1000
MOX-1008CS-27N□	27.0	2%(G), 5%(J), 10%(K)	100 MHz	60 @ 350MHz	1800	0.10	1000
MOX-1008CS-33N□	33.0	2%(G), 5%(J), 10%(K)	100 MHz	60 @ 350MHz	1700	0.10	1000
MOX-1008CS-39N□	39.0	2%(G), 5%(J), 10%(K)	100 MHz	60 @ 350MHz	1500	0.10	1000
MOX-1008CS-47N□	47.0	2%(G), 5%(J), 10%(K)	100 MHz	60 @ 350MHz	1500	0.10	1000
MOX-1008CS-56N□	56.0	2%(G), 5%(J), 10%(K)	100 MHz	60 @ 350MHz	1350	0.12	1000
MOX-1008CS-68N□	68.0	2%(G), 5%(J), 10%(K)	100 MHz	60 @ 350MHz	1300	0.15	1000
MOX-1008CS-82N□	82.0	2%(G), 5%(J), 10%(K)	100 MHz	60 @ 350MHz	1100	0.18	1000
MOX-1008CS-R10□	100	2%(G), 5%(J), 10%(K)	100 MHz	60 @ 350MHz	1100	0.18	1000
MOX-1008CS-R12□	120	2%(G), 5%(J), 10%(K)	25 MHz	45 @ 100MHz	950	0.20	800
MOX-1008CS-R15□	150	2%(G), 5%(J), 10%(K)	25 MHz	45 @ 100MHz	880	0.22	800
MOX-1008CS-R18□	180	2%(G), 5%(J), 10%(K)	25 MHz	45 @ 100MHz	800	0.33	800
MOX-1008CS-R22□	220	2%(G), 5%(J), 10%(K)	25 MHz	45 @ 100MHz	730	0.45	800
MOX-1008CS-R27□	270	2%(G), 5%(J), 10%(K)	25 MHz	45 @ 100MHz	650	0.75	600
MOX-1008CS-R33□	330	2%(G), 5%(J), 10%(K)	25 MHz	45 @ 100MHz	570	0.90	500
MOX-1008CS-R39□	390	2%(G), 5%(J), 10%(K)	25 MHz	45 @ 100MHz	530	1.06	470
MOX-1008CS-R47□	470	2%(G), 5%(J), 10%(K)	25 MHz	45 @ 100MHz	480	1.17	420
MOX-1008CS-R56□	560	2%(G), 5%(J), 10%(K)	25 MHz	45 @ 100MHz	430	1.50	310
MOX-1008CS-R68□	680	2%(G), 5%(J), 10%(K)	25 MHz	45 @ 100MHz	380	2.06	230
MOX-1008CS-R75□	750	2%(G), 5%(J), 10%(K)	25 MHz	45 @ 100MHz	360	2.20	200
MOX-1008CS-R82□	820	2%(G), 5%(J), 10%(K)	25 MHz	45 @ 100MHz	350	2.30	180
MOX-1008CS-R91□	910	2%(G), 5%(J), 10%(K)	25 MHz	45 @ 100MHz	330	3.18	150
MOX-1008CS-1R0□	1000	2%(G), 5%(J), 10%(K)	25 MHz	35 @ 50MHz	310	3.30	120



## MOX-1008CS 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.