

MOX-1008CS

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 $\pm 0.2\text{nH}$ is available.

Features:

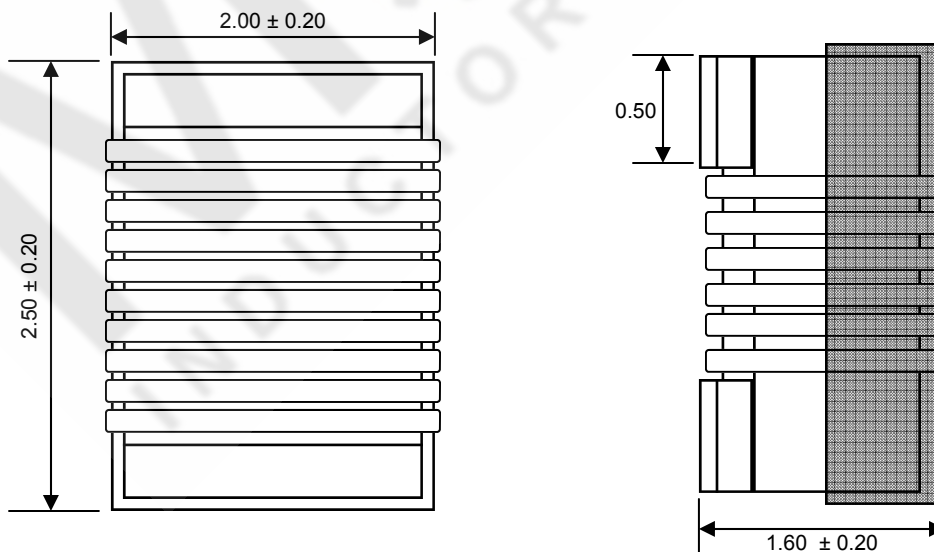
- Low Cost.
- Operating Temperature: -40°C to $+125^{\circ}\text{C}$.
- Excellent Solderability & Resistance to Soldering Heat.
- RoHS Compliant.
- Wide Range of Inductance Values To Accommodate Various Designs.



NOTES

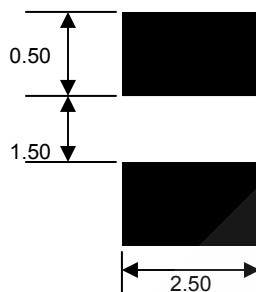


MECHANICAL DIMENSIONS





LANDING PATTERN



ELECTRICAL SPECIFICATIONS

Part Number	Inductance (nH)	Available Tolerances	Test Frequency	Q (Minimum)	SRF (MHz) Minimum	RDC (Ω) Maximum	IDC (mA)
MOX-1008CS-3N3□	3.3	±0.2nH(B), ±0.3nH(S)	100 MHz	50 @ 1000MHz	6000	0.06	1000
MOX-1008CS-6N8□	6.8	±0.2nH(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

- Q is measured on an Agilent/HP4291A + Agilent/HP16197A
- Packaging: Tape & Reel (2000 pieces per reel)
- RoHS Compliant.
- MoxiE Inductor Corporation specifications are subject to change without notice.