Wire Wound Inductors

Features

- High reliable wire wound structure in encapsulated case.
- Ideal for automatic surface mounting.
- High resistance to heat and humidity
- Resistance to mechanical shocks and pressure.
- Accurate dimension for automatically surface mount.

Applications

- Digital cameras, Computer peripherals, Video cameras, Mobile communication.

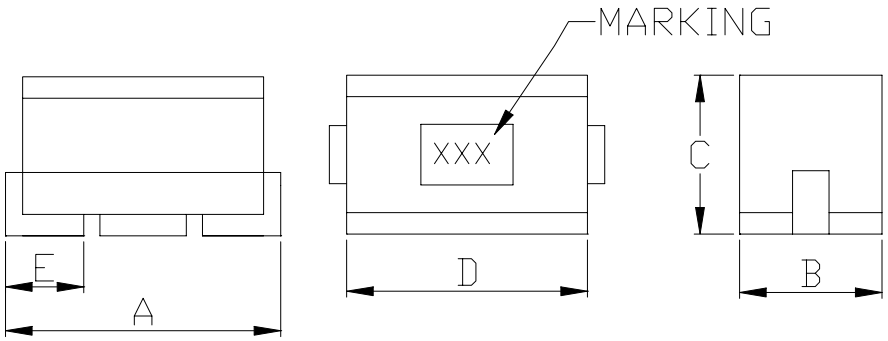
Part Number Systems

WI - 322522 – 1R0 – K - LF

(1) (2) (3) (4) (5)

(1)	**Product series**	**(2)**	**Size**
(3)	**Inductance Value: 1R0 = 1.0uH**	**(4)**	**Inductance Tolerance:**
(5)	**ROHs Compliant**		**J = ± 5%, K = ± 10%, M = ± 20%**

Shape And Dimensions



Unit: mm

Type	A	B	C	D	E Ref.
322522	3.2 ± 0.4	2.5 ± 0.2	2.2 ± 0.2	2.9 ± 0.2	0.6

WI-322522(1210)-Series				ELECTRICAL CHARACTERISTICS		
Part Number	Inductance (uH)	Tolerance	Q Min	SRF (MHz) Min	Rdc (Ω) Max	Idc (mA) Max
WI-322522-10NK-LF	0.010 @ 100 MHz	K, M	15 @ 100 MHz	2500	0.13	450
WI-322522-12NK-LF	0.012 @ 100 MHz	K, M	17 @ 100 MHz	2300	0.14	450
WI-322522-15NK-LF	0.015 @ 100 MHz	K, M	19 @ 100 MHz	2100	0.16	450
WI-322522-18NK-LF	0.018 @ 100 MHz	K, M	21 @ 100 MHz	1900	0.18	450
WI-322522-22NK-LF	0.022 @ 100 MHz	K, M	23 @ 100 MHz	1700	0.20	450
WI-322522-27NK-LF	0.027 @ 100 MHz	K, M	23 @ 100 MHz	1500	0.22	450
WI-322522-33NK-LF	0.033 @ 100 MHz	K, M	25 @ 100 MHz	1400	0.24	450
WI-322522-39NK-LF	0.039 @ 100 MHz	K, M	25 @ 100 MHz	1300	0.27	450
WI-322522-47NK-LF	0.047 @ 100 MHz	K, M	26 @ 100 MHz	1200	0.30	450
WI-322522-56NK-LF	0.056 @ 100 MHz	K, M	26 @ 100 MHz	1100	0.33	450
WI-322522-68NK-LF	0.068 @ 100 MHz	K, M	27 @ 100 MHz	1000	0.36	450
WI-322522-82NK-LF	0.082 @ 100 MHz	K, M	27 @ 100 MHz	900	0.40	450
WI-322522-R10K-LF	0.10 @ 100 MHz	J, K, M	28 @ 100 MHz	700	0.44	450
WI-322522-R12K-LF	0.12 @ 25.2 MHz	J, K, M	30 @ 25.2 MHz	500	0.22	450
WI-322522-R15K-LF	0.15 @ 25.2 MHz	J, K, M	30 @ 25.2 MHz	450	0.25	450
WI-322522-R18K-LF	0.18 @ 25.2 MHz	J, K, M	30 @ 25.2 MHz	400	0.28	450
WI-322522-R22K-LF	0.22 @ 25.2 MHz	J, K, M	30 @ 25.2 MHz	350	0.32	450
WI-322522-R27K-LF	0.27 @ 25.2 MHz	J, K, M	30 @ 25.2 MHz	320	0.36	450
WI-322522-R33K-LF	0.33 @ 25.2 MHz	J, K, M	30 @ 25.2 MHz	300	0.40	450
WI-322522-R39K-LF	0.39 @ 25.2 MHz	J, K, M	30 @ 25.2 MHz	250	0.45	450
WI-322522-R47K-LF	0.47 @ 25.2 MHz	J, K, M	30 @ 25.2 MHz	220	0.50	450
WI-322522-R56K-LF	0.56 @ 25.2 MHz	J, K, M	30 @ 25.2 MHz	180	0.55	450
WI-322522-R68K-LF	0.68 @ 25.2 MHz	J, K, M	30 @ 25.2 MHz	160	0.60	450
WI-322522-R82K-LF	0.82 @ 25.2 MHz	J, K, M	30 @ 25.2 MHz	140	0.65	450
WI-322522-1R0K-LF	1.00 @ 7.96 MHz	J, K, M	30 @ 7.96 MHz	120	0.70	400
WI-322522-1R2K-LF	1.20 @ 7.96 MHz	J, K, M	30 @ 7.96 MHz	100	0.75	390
WI-322522-1R5K-LF	1.50 @ 7.96 MHz	J, K, M	30 @ 7.96 MHz	85	0.85	370
WI-322522-1R8K-LF	1.80 @ 7.96 MHz	J, K, M	30 @ 7.96 MHz	80	0.90	350
WI-322522-2R2K-LF	2.20 @ 7.96 MHz	J, K, M	30 @ 7.96 MHz	75	1.00	320
WI-322522-2R7K-LF	2.70 @ 7.96 MHz	J, K, M	30 @ 7.96 MHz	70	1.10	290
WI-322522-3R3K-LF	3.30 @ 7.96 MHz	J, K, M	30 @ 7.96 MHz	60	1.20	260
WI-322522-3R9K-LF	3.90 @ 7.96 MHz	J, K, M	30 @ 7.96 MHz	55	1.30	250

*** All specifications are subjected to change without prior notice.**

WI-322522(1210)-Series				ELECTRICAL CHARACTERISTICS		
Part Number	Inductance (uH)	Tolerance	Q Min	SRF (MHz) Min	Rdc (Ω) Max	Idc (mA) Max
WI-322522-4R7K-LF	4.70 @ 7.96 MHz	J, K, M	30 @ 7.96 MHz	50	1.5	220
WI-322522-5R6K-LF	5.60 @ 7.96 MHz	J, K, M	30 @ 7.96 MHz	45	1.6	200
WI-322522-6R8K-LF	6.80 @ 7.96 MHz	J, K, M	30 @ 7.96 MHz	40	1.8	180
WI-322522-8R2K-LF	8.20 @ 7.96 MHz	J, K, M	30 @ 7.96 MHz	35	2.0	170
WI-322522-100K-LF	10 @ 2.52 MHz	J, K, M	30 @ 2.52 MHz	30	2.1	150
WI-322522-120K-LF	12 @ 2.52 MHz	J, K, M	30 @ 2.52 MHz	20	2.5	140
WI-322522-150K-LF	15 @ 2.52 MHz	J, K, M	30 @ 2.52 MHz	20	2.8	130
WI-322522-180K-LF	18 @ 2.52 MHz	J, K, M	30 @ 2.52 MHz	20	3.3	120
WI-322522-220K-LF	22 @ 2.52 MHz	J, K, M	30 @ 2.52 MHz	20	3.7	110
WI-322522-270K-LF	27 @ 2.52 MHz	J, K, M	30 @ 2.52 MHz	20	5.0	80
WI-322522-330K-LF	33 @ 2.52 MHz	J, K, M	30 @ 2.52 MHz	17	5.6	70
WI-322522-390K-LF	39 @ 2.52 MHz	J, K, M	30 @ 2.52 MHz	16	6.4	65
WI-322522-470K-LF	47 @ 2.52 MHz	J, K, M	30 @ 2.52 MHz	15	7.0	60
WI-322522-560K-LF	56 @ 2.52 MHz	J, K, M	30 @ 2.52 MHz	13	8.0	55
WI-322522-680K-LF	68 @ 2.52 MHz	J, K, M	30 @ 2.52 MHz	12	9.0	50
WI-322522-820K-LF	82 @ 2.52 MHz	J, K, M	30 @ 2.52 MHz	11	10.0	45
WI-322522-101K-LF	100 @ 0.796 MHz	J, K, M	20 @ 0.796 MHz	10	11.0	40
WI-322522-121K-LF	120 @ 0.796 MHz	J, K, M	20 @ 0.796 MHz	10	12.0	70
WI-322522-151K-LF	150 @ 0.796 MHz	J, K, M	20 @ 0.796 MHz	8.0	15.0	65
WI-322522-181K-LF	180 @ 0.796 MHz	J, K, M	20 @ 0.796 MHz	7.0	17.0	60
WI-322522-221K-LF	220 @ 0.796 MHz	J, K, M	20 @ 0.796 MHz	7.0	21.0	50

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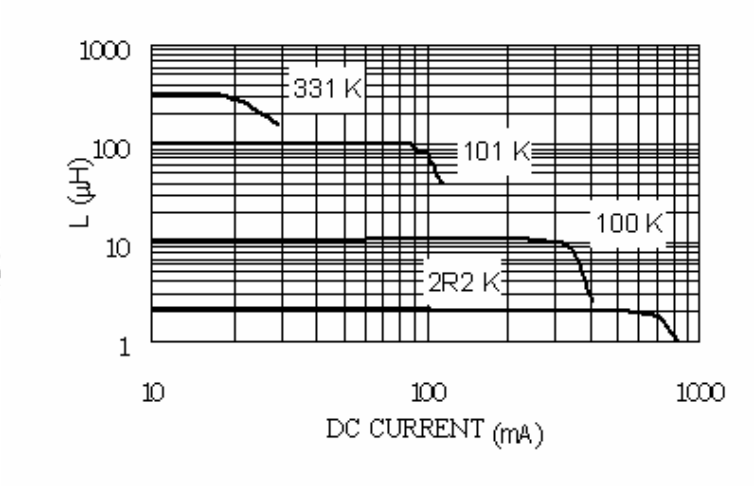
Typical Electrical Characteristics

❖ WI-322522 (1210)-Series

Inductance Vs. DC Superposition Characteristics



Q Vs. Frequency