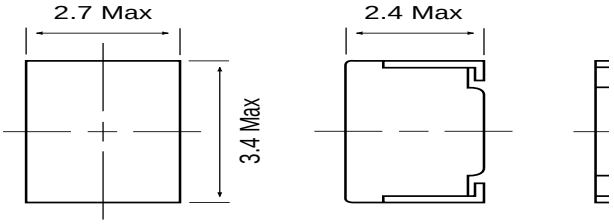
32CS Wirewound Chip Inductor

The 32CS Series is a ferrite core wirewound surface mount inductor which conforms to the EIA standard 1210 footprint. A low temperature coef ficient assures minimal drift of values. Its molded construction is of a superior grade resin for high mechanical strength, electrical stability , protection from leaching and flux contamination. It is recommended for general signal conditioning, RF or IF filtering applications, or as matching elements.

Features

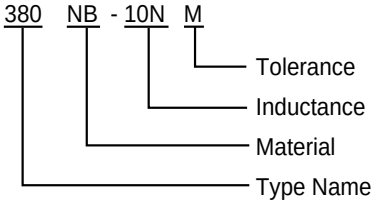
- Low temperature coefficient assures minimal drift of values.
- Molded of superior grade resin for mechanical strength, electrical stability, protection from leaching and flux contamination.
- Dip and Reflow Soldering
- Inductance Range: 0.01–220µH
- Temperature Coefficient: L drift within ±6.5%
- Temperature range between –25 to 85°C
- On tape and reel, 1500 pieces per reel

Dimensions



Tolerance: ±0.2
Tolerance=±0.2
Unit: mm

Part Numbering



Standard Parts Selection Guide

(1) Add following tolerance code to part numbers with parenthesis:
J=±5%, K=±10%, or M=±20%.
(2) The rated DC current is that which the inductance value decreases 10% by the excitation DC current.

TOKO Part[1] Number	Tolerance	Inductance (µH)	Q (min.)	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated DC Current[2] (mA) max.	Self Resonant Frequency (MHz) min.
380NB-10N*	M	0.010	18	100	0.100	510	1000
380NB-12N*	M	0.012	19	100	0.125	490	1000
380NB-15N*	M	0.015	20	100	0.145	470	1000
380NB-18N*	M	0.018	20	100	0.165	450	1000
380NB-22N*	M	0.022	21	100	0.170	430	900
380NB-27N*	M	0.027	22	100	0.190	410	800
380NB-33N*	M	0.033	22	100	0.200	390	720
380NB-39N*	M	0.039	23	100	0.230	380	700
380NB-47N*	M	0.047	24	100	0.235	360	650
380NB-56N*	M	0.056	25	100	0.265	340	600
380NB-68N*	M	0.068	26	100	0.290	320	550
380NB-82N*	M	0.082	27	100	0.330	300	525

* Add tolerance to part number J, K, M

continued on next page

TOKO Part[1] Number	Tolerance	Inductance (μH)	Q (min.)	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated DC Current[2] (mA) max.	Self Resonant Frequency (MHz) min.
380NB-R10*	M	0.10	18	25.2	0.38	250	450
380NB-R12*	M	0.12	18	25.2	0.42	240	300
380NB-R15*	M	0.15	17	25.2	0.46	230	220
380NB-R18*	M	0.18	16	25.2	0.50	220	190
380NB-R22*	M	0.22	15	25.2	0.54	200	160
380NB-R27*	M	0.27	15	25.2	0.60	190	130
380NB-R33*	M	0.33	15	25.2	0.65	180	100
380NB-R39*	M	0.39	14	25.2	0.70	170	95
380NB-R47*	M	0.47	13	25.2	0.75	170	85
380NB-R56*	M	0.56	12	25.2	0.84	160	75
380NB-R68*	M	0.68	12	25.2	0.92	150	70
380NB-R82*	M	0.82	12	25.2	1.01	140	65
380LB-1R0*	K,M	1.0	30	7.96	0.42	235	150
380LB-1R2*	K,M	1.2	30	7.96	0.46	225	110
380LB-1R5*	K,M	1.5	30	7.96	0.51	200	75.0
380LB-1R8*	K,M	1.8	30	7.96	0.56	190	57.5
380LB-2R2*	K,M	2.2	30	7.96	0.63	180	45.0
380LB-2R7*	K,M	2.7	30	7.96	0.71	178	37.0
380LB-3R3*	K,M	3.3	30	7.96	0.78	175	32.5
380LB-3R9*	K,M	3.9	30	7.96	0.86	170	29.5
380LB-4R7*	K,M	4.7	30	7.96	0.94	160	27.0
380LB-5R6*	K,M	5.6	30	7.96	1.43	127	24.0
380LB-6R8*	K,M	6.8	30	7.96	1.63	125	20.5
380LB-8R2*	K,M	8.2	30	7.96	1.76	120	19.0
380KB-100*	J,K	10	30	2.52	1.76	118	18.5
380KB-120*	J,K	12	30	2.52	2.02	93.0	17.0
380KB-150*	J,K	15	30	2.52	2.28	85.0	15.5
380KB-180*	J,K	18	30	2.52	2.54	80.0	14.5
380KB-220*	J,K	22	30	2.52	4.03	73.3	11.5
380KB-270*	J,K	27	30	2.52	4.55	68.3	11.5
380KB-330*	J,K	33	30	2.52	5.20	61.7	10.5
380KB-390*	J,K	39	30	2.52	5.59	56.7	9.50
380KB-470*	J,K	47	30	2.52	8.06	51.7	9.00
380KB-560*	J,K	56	30	2.52	9.10	43.3	8.25
380KB-680*	J,K	68	30	2.52	13.4	42.5	8.00
380KB-820*	J,K	82	30	2.52	14.3	37.5	6.00
380HB-101*	J,K	100	18	0.796	14.3	37.3	5.75
380HB-121*	J,K	120	18	0.796	16.3	35.0	5.00
380HB-151*	J,K	150	18	0.796	19.5	32.0	4.40
380HB-181*	J,K	180	18	0.796	20.8	31.0	4.25
380HB-221*	J,K	220	18	0.796	23.4	30.0	3.90

* Add tolerance to part number J, K, M