High Freq. Wound Ceramic Chip Inductors

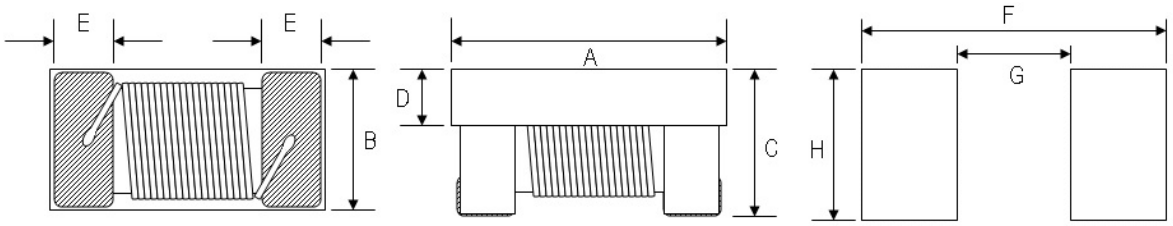
Application Field

- Cellular Phones
- Portable Phones
- Pagers
- Cable Modems
- ADSL
- Repeaters

Features

- High frequency applications
- Low DC resistance and high allowable DC current
- Close tolerance application 2% tolerance is available for particular inductance values
- Small footprint as well as low profile
- High quality factor

Dimensions and footprint (Unit：mm)



Unit : mm

Size	A	B	C	D	E	F	G	H
MNL-1005H	1.00±0.1	0.55±0.1	0.05±0.1	0.20 Typ.	0.20±0.1	1.40	0.64	0.65
MNL-1608H	1.60±0.2	1.05±0.2	1.05±0.2	0.50 Typ.	0.35±0.1	1.90	0.65	1.00
MNL-2012H	2.00±0.2	1.25±0.2	1.20±0.2	0.60 Typ.	0.40±0.1	2.60	0.75	1.30
MNL-2520H	2.60±0.2	2.10±0.2	1.70±0.2	0.70 Typ.	0.50±0.1	3.00	1.20	2.20
MNL-3225H	3.20±0.2	2.60±0.2	2.10±0.2	1.10 Typ.	0.50±0.1	4.00	1.70	2.82

Part Number Code

MNL	-	2520	H	-	18N	K
1		2	3		4	5

1、Product Code

2、Dimensions Code

3、Series Type：H = For High frequency

4、Inductance = Decimal Point

5、Tolerance：B = ±0.2nH、S = ±0.3nH、G = 2%、J = ±5%、K = ±10%

※Operating Temp.： －40℃ ~ ＋125℃.

Specification

Part No.	Inductance (nH)	Inductance Test Freq. (MHz)	Inductance Tolerance	Q(min)	Q Test Freq. (MHz)	SRF (MHz) (min)	DCR(Ω) (max)	IDC(mA) (max)
MNL-1005H-1N0	1.0	250	B, S	10	250	6000	0.045	740
MNL-1005H-1N8	1.8	250	B, S	16	250	6000	0.070	1040
MNL-1005H-1N9	1.9	250	B, S	16	250	6000	0.070	1040
MNL-1005H-2N0	2.0	250	B, S	16	250	6000	0.090	1040
MNL-1005H-2N2	2.2	250	B, S	18	250	6000	0.090	960
MNL-1005H-3N3	3.3	250	B, J, K	20	250	6000	0.076	840
MNL-1005H-3N6	3.6	250	B, J, K	20	250	6000	0.076	840
MNL-1005H-3N9	3.9	250	B, J, K	20	250	5800	0.076	840
MNL-1005H-4N7	4.7	250	B, J, K	20	250	4800	0.110	800
MNL-1005H-5N6	5.6	250	B, J, K	23	250	4800	0.083	760
MNL-1005H-6N2	6.2	250	B, J, K	23	250	4800	0.083	760
MNL-1005H-6N8	6.8	250	B, J, K	24	250	4800	0.083	680
MNL-1005H-7N5	7.5	250	B, J, K	25	250	4800	0.150	680
MNL-1005H-8N2	8.2	250	B, J, K	25	250	4400	0.150	680
MNL-1005H-9N0	9.0	250	B, J, K	25	250	4160	0.150	680
MNL-1005H-10N	10	250	G, J, K	23	250	3900	0.200	480
MNL-1005H-11N	11	250	G, J, K	25	250	3680	0.120	640
MNL-1005H-12N	12	250	G, J, K	25	250	3600	0.120	640
MNL-1005H-15N	15	250	G, J, K	25	250	3280	0.172	560
MNL-1005H-18N	18	250	G, J, K	25	250	3100	0.230	420
MNL-1005H-22N	22	250	G, J, K	25	250	2800	0.300	400
MNL-1005H-27N	27	250	G, J, K	25	250	2480	0.400	400
MNL-1005H-33N	33	250	G, J, K	24	250	2350	0.450	400
MNL-1005H-47N	47	250	G, J, K	25	250	2100	0.830	150
MNL-1005H-56N	56	250	G, J, K	25	250	1760	0.970	100

MNL-1005H-68N	68	250	G, J, K	25	250	1620	1.500	100
MNL-1005H-R10	100	250	G, J, K	24	250	1160	2.000	30
MNL-1005H-R12	120	250	G, J, K	24	250	1800	2.660	50

Part No.	Inductance (nH)	Inductance Test Freq. (MHz)	Inductance Tolerance	Q(min)	Q Test Freq. (MHz)	SRF (MHz) (min)	DCR(Ω) (max)	IDC(mA) (max)
MNL-1608H-2N0	2.0	250	B, S	16	250	6900	0.08	700
MNL-1608H-3N9	3.9	250	B, S	22	250	6900	0.08	700
MNL-1608H-4N7	4.7	250	B, S	20	250	5800	0.13	700
MNL-1608H-6N8	6.8	250	B, J, K	30	250	5800	0.11	700
MNL-1608H-8N2	8.2	250	B, J, K	30	250	4600	0.10	700
MNL-1608H-10N	10	250	G, J, K	30	250	3800	0.13	700
MNL-1608H-12N	12	250	G, J, K	35	250	4000	0.13	700
MNL-1608H-15N	15	250	G, J, K	35	250	4000	0.17	700
MNL-1608H-18N	18	250	G, J, K	38	250	3100	0.17	700
MNL-1608H-22N	22	250	G, J, K	38	250	3000	0.22	700
MNL-1608H-27N	27	250	G, J, K	40	250	2800	0.22	600
MNL-1608H-33N	33	250	G, J, K	43	250	2300	0.22	600
MNL-1608H-39N	39	250	G, J, K	43	250	2200	0.25	600
MNL-1608H-47N	47	200	G, J, K	40	200	2000	0.28	600
MNL-1608H-56N	56	200	G, J, K	40	200	1900	0.31	600
MNL-1608H-68N	68	200	G, J, K	40	200	1700	0.34	600
MNL-1608H-72N	72	150	G, J, K	35	150	1700	0.49	400
MNL-1608H-82N	82	150	G, J, K	35	150	1700	0.54	400
MNL-1608H-R10	100	150	G, J, K	35	150	1400	0.63	400
MNL-1608H-R12	120	150	G, J, K	35	150	1300	0.65	300
MNL-1608H-R15	150	150	G, J, K	35	150	1000	0.92	280
MNL-1608H-R18	180	100	G, J, K	30	100	1000	1.25	240
MNL-1608H-R22	220	100	G, J, K	30	100	1000	1.70	200
MNL-1608H-R27	270	100	G, J, K	30	100	1000	1.80	170

Part No.	Inductance (nH)	Inductance Test Freq. (MHz)	Inductance Tolerance	Q(min)	Q Test Freq. (MHz)	SRF (MHz) (min)	DCR(Ω) (max)	IDC(mA) (max)
MNL-2012H-22	2.2	250	B, S	50	1000	6000	0.06	800
MNL-2012H-27	2.7	250	B, S	35	1000	6000	0.06	800
MNL-2012H-33	3.3	250	B, S	60	1000	6000	0.06	800
MNL-2012H-39	3.9	250	B, S	60	1000	6000	0.06	600
MNL-2012H-47	4.7	250	B, J, K	60	1000	5800	0.06	600
MNL-2012H-56	5.6	250	B, J, K	60	1000	5800	0.08	600
MNL-2012H-68	6.8	250	B, J, K	60	1000	5500	0.06	600
MNL-2012H-82	8.2	250	G, J, K	60	1000	5500	0.06	600
MNL-2012H-10	10	250	G, J, K	60	500	4800	0.08	600
MNL-2012H-12	12	250	G, J, K	60	500	4100	0.08	600
MNL-2012H-15	15	250	G, J, K	60	500	3600	0.08	600

MNL-2012H-18	18	250	G, J, K	60	500	3400	0.08	600
MNL-2012H-22	22	250	G, J, K	60	500	3300	0.10	600
MNL-2012H-27	27	250	G, J, K	60	500	2600	0.12	600
MNL-2012H-33	33	250	G, J, K	60	500	2400	0.15	500
Part No.	Inductance (nH)	Inductance Test Freq. (MHz)	Inductance Tolerance	Q(min)	Q Test Freq. (MHz)	SRF (MHz) (min)	DCR(Ω) (max)	IDC(mA) (max)
MNL-2012H-39	39	250	G, J, K	60	500	2100	0.18	500
MNL-2012H-47	47	200	G, J, K	60	500	1700	0.15	500
MNL-2012H-56	56	200	G, J, K	60	500	1600	0.25	500
MNL-2012H-68	68	200	G, J, K	60	500	1450	0.27	500
MNL-2012H-82	82	150	G, J, K	60	500	1350	0.32	500
MNL-2012H-10	100	150	G, J, K	60	500	1200	0.43	500
MNL-2012H-12	120	150	G, J, K	50	250	1100	0.48	500
MNL-2012H-15	150	100	G, J, K	50	250	950	0.56	400
MNL-2012H-18	180	100	G, J, K	50	250	900	0.78	400
MNL-2012H-22	220	100	G, J, K	50	250	860	1.00	400
MNL-2012H-27	270	100	G, J, K	45	250	850	1.46	350
MNL-2012H-33	330	100	G, J, K	45	250	800	1.65	300
MNL-2012H-39	390	100	G, J, K	45	250	780	2.20	210

Part No.	Inductance (nH)	Inductance Test Freq. (MHz)	Inductance Tolerance	Q(min)	Q Test Freq. (MHz)	SRF (MHz) (min)	DCR(Ω) (max)	IDC(mA) (max)
MNL-2520H-3N3	3.3	100	B, S	50	1000	6000	0.06	1000
MNL-2520H-6N8	6.8	100	B, J, K	50	1000	5500	0.06	1000
MNL-2520H-8N2	8.2	100	B, J, K	50	1000	5500	0.06	1000
MNL-2520H-10N	10	100	G, J, K	50	1000	4300	0.08	1000
MNL-2520H-12N	12	100	G, J, K	60	500	3600	0.08	1000
MNL-2520H-15N	15	100	G, J, K	60	500	2700	0.08	1000
MNL-2520H-18N	18	100	G, J, K	60	350	2700	0.10	1000
MNL-2520H-22N	22	100	G, J, K	60	350	2500	0.10	1000
MNL-2520H-27N	27	100	G, J, K	60	350	1800	0.10	1000
MNL-2520H-33N	33	100	G, J, K	60	350	1700	0.10	1000
MNL-2520H-39N	39	100	G, J, K	60	350	1500	0.10	1000
MNL-2520H-47N	47	100	G, J, K	60	350	1500	0.10	1000
MNL-2520H-56N	56	100	G, J, K	60	350	1350	0.12	1000
MNL-2520H-68N	68	100	G, J, K	60	350	1300	0.15	1000
MNL-2520H-82N	82	100	G, J, K	60	350	1100	0.18	1000
MNL-2520H-R10	100	100	G, J, K	60	350	1100	0.18	1000
MNL-2520H-R12	120	25	G, J, K	45	100	950	0.20	800
MNL-2520H-R15	150	25	G, J, K	45	100	880	0.22	800
MNL-2520H-R18	180	25	G, J, K	45	100	800	0.33	800
MNL-2520H-R22	220	25	G, J, K	45	100	730	0.45	800
MNL-2520H-R27	270	25	G, J, K	45	100	650	0.75	600
MNL-2520H-R33	330	25	G, J, K	45	100	570	0.90	500

MNL-2520H-R39	390	25	G, J, K	45	100	530	1.06	470
MNL-2520H-R47	470	25	G, J, K	45	100	480	1.17	420
MNL-2520H-R56	560	25	G, J, K	45	100	430	1.50	310
MNL-2520H-R68	680	25	G, J, K	45	100	380	2.06	230
Part No.	Inductance (nH)	Inductance Test Freq. (MHz)	Inductance Tolerance	Q(min)	Q Test Freq. (MHz)	SRF (MHz) (min)	DCR(Ω) (max)	IDC(mA) (max)
MNL-2520H-R75	750	25	G, J, K	45	100	360	2.20	200
MNL-2520H-R82	820	25	G, J, K	45	100	350	2.30	180
MNL-2520H-R91	910	25	G, J, K	45	100	330	3.18	150
MNL-2520H-1R0	1000	25	G, J, K	35	50	310	3.30	120

Part No.	Inductance (nH)	Inductance Test Freq. (MHz)	Inductance Tolerance	Q(min)	Q Test Freq. (MHz)	SRF (MHz) (min)	DCR(Ω) (max)	IDC(mA) (max)
MNL-3225H-4N7	4.7	100	B, S	50	1000	6000	0.06	1000
MNL-3225H-5N6	5.6	100	B, J, K	50	1000	5500	0.06	1000
MNL-3225H-10N	10	100	G, J, K	60	500	4000	0.06	1000
MNL-3225H-12N	12	100	G, J, K	60	500	3400	0.06	1000
MNL-3225H-15N	15	100	G, J, K	60	500	3200	0.06	1000
MNL-3225H-18N	18	100	G, J, K	60	300	2800	0.06	1000
MNL-3225H-22N	22	100	G, J, K	60	300	2100	0.08	1000
MNL-3225H-27N	27	100	G, J, K	60	300	1900	0.08	1000
MNL-3225H-33N	33	100	G, J, K	60	300	1700	0.08	1000
MNL-3225H-39N	39	100	G, J, K	60	300	1700	0.08	1000
MNL-3225H-47N	47	100	G, J, K	60	300	1400	0.08	1000
MNL-3225H-56N	56	100	G, J, K	60	300	1100	0.10	1000
MNL-3225H-68N	68	100	G, J, K	60	300	1000	0.10	1000
MNL-3225H-82N	82	100	G, J, K	60	300	1000	0.10	1000
MNL-3225H-R10	100	100	G, J, K	60	300	900	0.10	1000
MNL-3225H-R12	120	50	G, J, K	60	300	900	0.12	800
MNL-3225H-R15	150	50	G, J, K	60	300	800	0.18	800
MNL-3225H-R18	180	50	G, J, K	60	300	760	0.21	800
MNL-3225H-R22	220	50	G, J, K	60	300	660	0.27	800
MNL-3225H-R27	270	50	G, J, K	50	300	600	0.33	700
MNL-3225H-R33	330	50	G, J, K	50	100	550	0.37	650
MNL-3225H-R39	390	50	G, J, K	50	100	500	0.63	600
MNL-3225H-R47	470	50	G, J, K	50	100	450	0.69	550
MNL-3225H-R56	560	50	G, J, K	50	100	400	0.90	450
MNL-3225H-R68	680	25	G, J, K	50	100	380	1.05	400
MNL-3225H-R82	820	25	G, J, K	50	100	350	1.45	350
MNL-3225H-1R0	1000	25	G, J, K	45	100	300	1.90	280
MNL-3225H-1R2	1200	7.96	J, K	45	50	300	2.20	250
MNL-3225H-1R5	1500	7.96	J, K	45	50	250	2.43	220
MNL-3225H-1R8	1800	7.96	J, K	45	50	200	3.36	180
MNL-3225H-2R2	2200	7.96	J, K	45	50	200	3.50	150