SMD Wire Wound Chip Inductors for Power Line

Application Field

Personal computers, Hard disk drives

ADSL modem and cable modem

Digital camera and electronic equipment

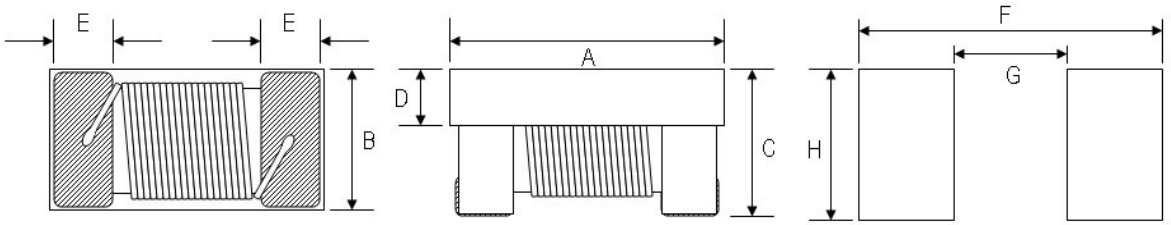
Features

Utilizing a miniaturized winding structre.

These products provide high Q characteristics.

Precision inductance tolerance is availble.

Dimensions and footprint (Unit ： mm)



Unit : mm

Size	A max	B max	C max	D typ	E±0.1	F	G	H
MNL-1610P	1.80	1.20	1.20	0.38	0.35	1.92	0.64	1.10
MNL-2012P	2.40	1.60	1.40	0.51	0.44	2.80	1.00	1.80
MNL-2520P	2.90	2.50	2.10	1.20	0.55	3.30	1.30	2.54
MNL-3225P	3.60	2.80	2.50	0.80	0.55	4.00	2.00	2.80

Part Number Code

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

1、Product Code

2、Dimensions Code

3、Series Type：P = For Power line

4、Inductance = Decimal Point

5、Tolerance：J = ±5%、K = ±10%、M = ±20%

※Operating Temp. : －40℃ ~ ＋125℃.

Specification

Part No.	Inductance (μH)	Inductance Test Freq. (MHz)	Inductance Tolerance	Q(min)	Q Test Freq. (MHz)	SRF (MHz) (min)	DCR(Ω) (max)	IDC(mA) (max)
MNL-1610P-R10	0.10	7.96	K, M	10	7.96	1150	0.13	1400
MNL-1610P-R12	0.12	7.96	K, M	10	7.96	1100	0.15	1400
MNL-1610P-R15	0.15	7.96	K, M	10	7.96	1050	0.15	1300
MNL-1610P-R18	0.18	7.96	K, M	10	7.96	950	0.15	1300
MNL-1610P-R22	0.22	7.96	K, M	10	7.96	800	0.15	950
MNL-1610P-R27	0.27	7.96	K, M	10	7.96	775	0.20	710
MNL-1610P-R33	0.33	7.96	K, M	10	7.96	725	0.35	620
MNL-1610P-R39	0.39	7.96	K, M	10	7.96	620	0.39	600
MNL-1610P-R47	0.47	7.96	K, M	10	7.96	540	0.43	570
MNL-1610P-R56	0.56	7.96	K, M	10	7.96	525	0.47	550
MNL-1610P-R68	0.68	7.96	K, M	10	7.96	460	0.52	470
MNL-1610P-R82	0.82	7.96	K, M	10	7.96	410	0.69	400
MNL-1610P-1R0	1.00	7.96	J, K	10	7.96	190	0.81	400
MNL-1610P-1R2	1.20	7.96	J, K	10	7.96	160	0.87	370
MNL-1610P-1R5	1.50	7.96	J, K	10	7.96	100	0.96	350
MNL-1610P-1R8	1.80	7.96	J, K	10	7.96	80	1.10	350
MNL-1610P-2R2	2.20	7.96	J, K	10	7.96	68	1.20	320
MNL-1610P-3R3	3.30	7.96	J, K	10	7.96	42	1.50	280
MNL-1610P-3R9	3.90	7.96	J, K	10	7.96	40	1.50	280
MNL-1610P-4R7	4.70	7.96	J, K	10	7.96	34	2.10	260
MNL-1610P-5R6	5.60	7.96	J, K	10	7.96	32	2.60	240
MNL-1610P-6R8	6.80	7.96	J, K	10	7.96	31	3.10	200
MNL-1610P-8R2	8.20	7.96	J, K	10	7.96	26	4.40	190
MNL-1610P-100	10.0	2.52	J, K	10	2.52	25	4.80	180

Part No.	Inductance (μH)	Inductance Test Freq. (MHz)	Inductance Tolerance	Q(min)	Q Test Freq. (MHz)	SRF (MHz) (min)	DCR(Ω) (max)	IDC(mA) (max)
MNL-2012P-R47	0.47	7.96	K, M	10	7.96	720	0.20	750
MNL-2012P-R56	0.56	7.96	K, M	10	7.96	665	0.21	730
MNL-2012P-R68	0.68	7.96	K, M	10	7.96	565	0.28	670
MNL-2012P-R83	0.82	7.96	K, M	10	7.96	545	0.31	650
MNL-2012P-1R0	1.00	7.96	K, M	10	7.96	525	0.34	615
MNL-2012P-1R2	1.20	7.96	K, M	10	7.96	473	0.39	550
MNL-2012P-1R5	1.50	7.96	K, M	10	7.96	300	0.45	520
MNL-2012P-1R8	1.80	7.96	K, M	10	7.96	230	0.48	500
MNL-2012P-2R2	2.20	7.96	K, M	10	7.96	215	0.67	420
MNL-2012P-2R7	2.70	7.96	K, M	10	7.96	140	0.74	410

Part No.	Inductance (μH)	Inductance Test Freq. (MHz)	Inductance Tolerance	Q(min)	Q Test Freq. (MHz)	SRF (MHz) (min)	DCR(Ω) (max)	IDC(mA) (max)
MNL-2012P-3R3	3.30	7.96	K, M	10	7.96	95	0.81	385
MNL-2012P-3R9	3.90	7.96	K, M	10	7.96	57	0.88	372
MNL-2012P-4R7	4.70	7.96	K, M	10	7.96	51	0.99	345
MNL-2012P-5R6	5.60	7.96	K, M	10	7.96	44	1.06	335
MNL-2012P-6R8	6.80	7.96	K, M	10	7.96	39	1.21	315
MNL-2012P-8R2	8.20	7.96	K, M	10	7.96	33	1.33	295
MNL-2012P-100	10.0	2.52	K, M	10	2.52	30	1.79	260
MNL-2012P-120	12.0	2.52	K, M	10	2.52	27	1.98	250
MNL-2012P-150	15.0	2.52	K, M	10	2.52	22	2.68	215
MNL-2012P-180	18.0	2.52	K, M	10	2.52	20	3.12	195
MNL-2012P-220	22.0	2.52	K, M	10	2.52	18	3.48	180
MNL-2012P-270	27.0	2.52	K, M	10	2.52	16	3.84	170
MNL-2012P-330	33.0	2.52	K, M	10	2.52	15	4.34	145

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MNL-2520P-1R0	1.00	7.96	M	12	7.96	345	0.13	1000
MNL-2520P-1R5	1.50	7.96	M	12	7.96	100	0.17	850
MNL-2520P-2R2	2.20	7.96	M	12	7.96	78	0.21	775
MNL-2520P-3R3	3.30	7.96	K, M	12	7.96	48	0.26	715
MNL-2520P-4R7	4.70	7.96	K, M	12	7.96	46	0.52	505
MNL-2520P-6R8	6.80	7.96	K, M	12	7.96	33	0.72	432
MNL-2520P-8R2	8.20	2.52	K, M	12	2.52	30	0.76	410
MNL-2520P-100	10.0	2.52	K, M	12	2.52	28	0.86	392
MNL-2520P-150	15.0	2.52	K, M	12	2.52	21	1.09	342
MNL-2520P-220	22.0	2.52	K, M	12	2.52	18	1.96	260
MNL-2520P-330	33.0	2.52	K, M	12	2.52	15	2.47	236

Part No.	Inductance (μH)	Inductance Test Freq. (MHz)	Inductance Tolerance	Q(min)	Q Test Freq. (MHz)	SRF (MHz) (min)	DCR(Ω) (max)	IDC(mA) (max)
MNL-3225P-1R0	1.00	7.96	K, M	10	7.96	290	0.12	1200
MNL-3225P-1R5	1.50	7.96	K, M	10	7.96	260	0.13	1000
MNL-3225P-2R2	2.20	7.96	K, M	10	7.96	190	0.17	880
MNL-3225P-3R3	3.30	7.96	K, M	10	7.96	64	0.22	775
MNL-3225P-4R7	4.70	7.96	K, M	10	7.96	54	0.26	710
MNL-3225P-6R8	6.80	7.96	K, M	10	7.96	34	0.30	660
MNL-3225P-100	10.0	2.52	K, M	10	2.52	25	0.39	570
MNL-3225P-150	15.0	2.52	K, M	10	2.52	17	0.66	440

Part No.	Inductance (μH)	Inductance Test Freq. (MHz)	Inductance Tolerance	Q(min)	Q Test Freq. (MHz)	SRF (MHz) (min)	DCR(Ω) (max)	IDC(mA) (max)
MNL-3225P-220	22.0	2.52	K, M	10	2.52	16	0.82	400
MNL-3225P-330	33.0	2.52	K, M	10	2.52	12	1.50	285
MNL-3225P-390	39.0	2.52	K, M	10	2.52	12	1.66	270
MNL-3225P-470	47.0	2.52	K, M	10	2.52	10	1.90	260
MNL-3225P-680	68.0	2.52	K, M	10	2.52	9	2.29	235
MNL-3225P-101	100	1.00	K, M	10	1	7	3.48	190
MNL-3225P-151	150	1.00	K, M	10	1	5	6.55	140
MNL-3225P-221	220	1.00	K, M	10	1	4	8.23	115
MNL-3225P-331	330	1.00	K, M	10	1	2.8	13.7	98
MNL-3225P-471	470	1.00	K, M	10	1	2.6	18.1	86
MNL-3225P-681	680	1.00	K, M	10	1	2.3	22.0	76