

SMD Wire Wound Chip Inductors for Signal Line

Application Field

Personal computers, Hard disk drives

ADSL modem and cable modem

Digital camera and electronic equipment

Features

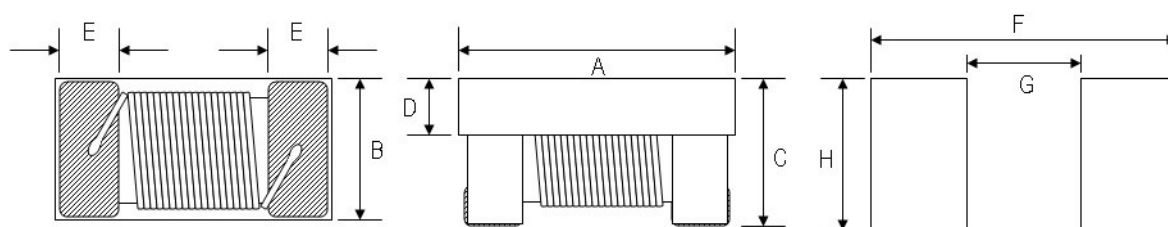
Utilizing a miniaturized winding structure.

These products provide high Q characteristics.

Resin-coated surface enables excellent mounting.

Precision inductance tolerance is available.

Dimensions and footprint (Unit : mm)



Unit : mm

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

Part Number Code

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

1、Product Code

2、Dimensions Code

3、Series Type : S = For Signal line

4、Inductance = Decimal Point

5、Tolerance : J = $\pm 5\%$ 、K = $\pm 10\%$

※Operating Temp. : $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$.

Specification

Part No.	Inductance (μ H)	Inductance Test Freq. (MHz)	Inductance Tolerance	Q(min)	Q Test Freq. (MHz)	SRF (MHz) (min)	DCR(Ω) (max)	IDC(mA) (max)
MNL-2012S-R18	0.18	25.2	J, K	30	100	850	0.34	460
MNL-2012S-R27	0.27	25.2	J, K	30	100	660	0.43	440
MNL-2012S-R47	0.47	25.2	J, K	30	100	570	0.54	420
MNL-2012S-R56	0.56	25.2	J, K	30	100	560	0.64	400
MNL-2012S-R68	0.68	25.2	J, K	30	100	480	0.68	350
MNL-2012S-R82	0.82	25.2	J, K	30	100	449	0.77	325
MNL-2012S-1R0	1.00	25.2	J, K	30	100	394	0.86	300
MNL-2012S-1R2	1.20	25.2	J, K	25	100	297	0.97	260
MNL-2012S-1R5	1.50	25.2	J, K	25	25.2	206	1.08	250
MNL-2012S-1R8	1.80	25.2	J, K	25	25.2	177	1.18	230
MNL-2012S-2R2	2.20	25.2	J, K	20	25.2	141	1.32	220
MNL-2012S-2R7	2.70	25.2	J, K	20	25.2	128	1.42	210
MNL-2012S-3R3	3.30	25.2	J, K	15	25.2	110	1.73	200
MNL-2012S-3R9	3.90	25.2	J, K	15	25.2	103	1.72	195
MNL-2012S-4R7	4.70	25.2	J, K	15	25.2	98	1.87	185
MNL-2012S-5R6	5.60	7.96	J, K	15	7.96	96	2.18	180
MNL-2012S-6R8	6.80	7.96	J, K	15	7.96	82	2.90	175
MNL-2012S-8R2	8.20	7.96	J, K	15	7.96	64	3.31	140
MNL-2012S-100	10.0	7.96	J, K	15	7.96	56	3.72	115

Part No.	Inductance (μ H)	Inductance Test Freq. (MHz)	Inductance Tolerance	Q(min)	Q Test Freq. (MHz)	SRF (MHz) (min)	DCR(Ω) (max)	IDC(mA) (max)
MNL-2520S-1R0	1.00	25.2	J, K	30	25.2	285	0.80	400
MNL-2520S-1R2	1.20	25.2	J, K	25	25.2	265	0.87	300
MNL-2520S-1R5	1.50	25.2	J, K	25	25.2	235	0.98	260
MNL-2520S-1R8	1.80	25.2	J, K	25	25.2	226	1.10	245
MNL-2520S-2R2	2.20	25.2	J, K	25	25.2	198	1.22	230
MNL-2520S-2R7	2.70	25.2	J, K	25	25.2	180	1.33	220
MNL-2520S-3R3	3.30	25.2	J, K	25	25.2	143	1.46	210
MNL-2520S-3R9	3.90	25.2	J, K	25	25.2	136	1.63	200
MNL-2520S-4R7	4.70	25.2	J, K	25	25.2	105	1.76	195

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MNL-2520S-5R6	5.60	25.2	J, K	25	25.2	88	1.97	185
MNL-2520S-6R8	6.80	7.96	J, K	25	7.96	56	1.79	190
MNL-2520S-8R2	8.20	7.96	J, K	25	7.96	48	2.03	180
MNL-2520S-100	10.0	7.96	J, K	25	7.96	44	2.92	165
MNL-2520S-120	12.0	7.96	J, K	25	7.96	42	3.11	160
MNL-2520S-150	15.0	7.96	J, K	25	7.96	37	3.58	155
MNL-2520S-180	18.0	2.52	J, K	20	2.52	32	3.89	150
MNL-2520S-220	22.0	2.52	J, K	20	2.52	28	4.38	140
MNL-2520S-270	27.0	2.52	J, K	20	2.52	24	4.92	130
MNL-2520S-330	33.0	2.52	J, K	20	2.52	22	5.50	125
MNL-2520S-390	39.0	2.52	J, K	20	2.52	20	7.51	110
MNL-2520S-470	47.0	2.52	J, K	20	2.52	18	8.34	100
MNL-2520S-560	56.0	2.52	J, K	20	2.52	16	9.18	95
MNL-2520S-680	68.0	2.52	J, K	20	2.52	14	9.61	90
MNL-2520S-820	82.0	2.52	J, K	20	2.52	12	11.5	80

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MNL-3225S-R82	0.82	25.2	J, K	30	25.2	310	0.54	630
MNL-3225S-1R0	1.00	25.2	J, K	30	25.2	239	0.54	630
MNL-3225S-1R2	1.20	25.2	J, K	30	25.2	221	0.54	630
MNL-3225S-1R5	1.50	25.2	J, K	30	25.2	209	0.54	630
MNL-3225S-1R8	1.80	25.2	J, K	30	25.2	203	0.62	630
MNL-3225S-2R2	2.20	25.2	J, K	30	25.2	187	0.71	630
MNL-3225S-2R7	2.70	25.2	J, K	30	25.2	157	0.74	630
MNL-3225S-3R3	3.30	25.2	J, K	30	25.2	146	0.83	600
MNL-3225S-3R9	3.90	25.2	J, K	30	25.2	139	1.74	380
MNL-3225S-4R7	4.70	25.2	J, K	30	25.2	124	1.90	360
MNL-3225S-5R6	5.60	25.2	J, K	30	25.2	114	2.05	330
MNL-3225S-6R8	6.80	7.96	J, K	30	7.96	109	1.37	450
MNL-3225S-8R2	8.20	7.96	J, K	30	7.96	104	1.50	420
MNL-3225S-100	10.0	7.96	J, K	25	7.96	87	1.70	400
MNL-3225S-120	12.0	7.96	J, K	25	7.96	76	1.88	360

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MNL-3225S-150	15.0	7.96	J, K	25	7.96	67	2.22	340
MNL-3225S-180	18.0	2.52	J, K	25	2.52	57	2.42	330
MNL-3225S-220	22.0	2.52	J, K	25	2.52	48	2.66	300
MNL-3225S-270	27.0	2.52	J, K	25	2.52	38	2.99	250
MNL-3225S-330	33.0	2.52	J, K	25	2.52	26	3.24	220
MNL-3225S-390	39.0	2.52	J, K	25	2.52	24	3.61	195
MNL-3225S-470	47.0	2.52	J, K	25	2.52	22	3.96	195
MNL-3225S-560	56.0	2.52	J, K	25	2.52	20	4.36	190
MNL-3225S-680	68.0	2.52	J, K	25	2.52	18	4.73	180
MNL-3225S-820	82.0	2.52	J, K	25	2.52	16	5.95	160
MNL-3225S-101	100	2.52	J, K	25	2.52	14	6.62	150
MNL-3225S-121	120	2.52	J, K	15	2.52	12	7.33	140
MNL-3225S-151	150	2.52	J, K	15	2.52	11	8.29	135
MNL-3225S-181	180	2.52	J, K	15	2.52	10	11.5	100
MNL-3225S-221	220	1.00	J, K	15	1.00	8	12.5	80