

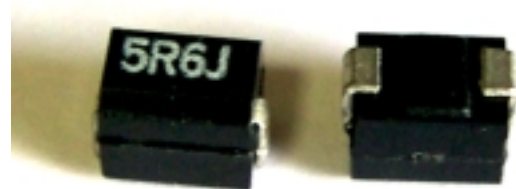
# NL SERIES SMD POWER INDUCTORS

## Features

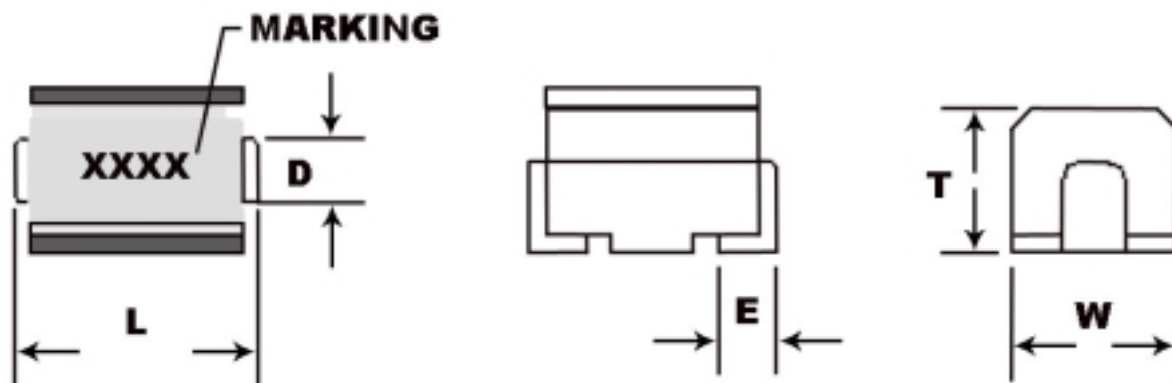
- \*Excellent solderability and resistance to soldering heat impact.
- \*Suitable for flow and reflow soldering.
- \*Good dimensions, high reliability, and easy surface mount assembly.
- \*Terminals are highly resistance to pull forces.
- \*Highly resistance to mechanical shock and pressure.
- \*High reliability in environments of sudden temperature change and humidity.
- \*Better Q factor.

## Applications

- \*Digital camera
- \*ADSL
- \*Notebook computer
- \*Wireless mouse
- \*G.P.S.
- \*LCD TV
- \*Mobile telephone
- \*SET-TOP-BOX



## SHAPE & DIMENSIONS



TYPE	Length (L) mm	Width (W) mm	Thickness (T) mm	Terminal (D) mm	(E) mm
NL322522	3.2±0.3	2.5±0.3	2.2±0.3	1.4±0.2	0.6±0.2
NL453232	4.5±0.3	3.2±0.3	3.2±0.3	1.5±0.3	0.9±0.2

## NL SERIES WOUND CHIP INDUCTORS NL322522 (1210)

### ELECTRICAL CHARACTERISTICS

P/N	L(μH)	TEST FREQ (MHz)	Q MIN	SRF (MHz) Min	RDC (Ω) Max	IDC <sup>1</sup> (mA) Max
NL322522-R10K	0.10	25.2	30	700	0.44	450
NL322522-R12K	0.12	25.2	30	500	0.22	450
NL322522-R15K	0.15	25.2	30	450	0.25	450
NL322522-R18K	0.18	25.2	30	400	0.28	450
NL322522-R22K	0.22	25.2	30	350	0.32	450
NL322522-R27K	0.27	25.2	30	320	0.36	450
NL322522-R33K	0.33	25.2	30	300	0.40	450
NL322522-R39K	0.39	25.2	30	250	0.45	450
NL322522-R47K	0.47	25.2	30	220	0.50	450
NL322522-R56K	0.56	25.2	30	180	0.55	450
NL322522-R68K	0.68	25.2	30	160	0.60	450
NL322522-R82K	0.82	25.2	30	140	0.65	450
NL322522-1R0K	1.0	7.96	30	95	0.70	400
NL322522-1R2K	1.2	7.96	30	85	0.75	390
NL322522-1R5K	1.5	7.96	30	70	0.85	370
NL322522-1R8K	1.8	7.96	30	60	0.90	350
NL322522-2R2K	2.2	7.96	30	50	1.00	320
NL322522-2R7K	2.7	7.96	30	45	1.10	290
NL322522-3R3K	3.3	7.96	30	40	1.20	260
NL322522-3R9K	3.9	7.96	30	37	1.30	250
NL322522-4R7K	4.7	7.96	30	32	1.50	220
NL322522-5R6K	5.6	7.96	30	30	1.60	200
NL322522-6R8K	6.8	7.96	30	28	1.80	180
NL322522-8R2K	8.2	7.96	30	25	2.00	170
NL322522-100K	10	2.52	30	23	2.10	150
NL322522-120K	12	2.52	30	20	2.50	140
NL322522-150K	15	2.52	30	19	2.80	130
NL322522-180K	18	2.52	30	17	3.30	120
NL322522-220K	22	2.52	30	16	3.70	110
NL322522-270K	27	2.52	30	14	5.00	80
NL322522-330K	33	2.52	30	13	5.60	70
NL322522-390K	39	2.52	30	12	6.40	65
NL322522-470K	47	2.52	30	10	7.00	60
NL322522-560K	56	2.52	30	9	8.00	55
NL322522-680K	68	2.52	30	9	9.00	50
NL322522-820K	82	2.52	30	8	10.00	45
NL322522-101K	100	0.796	20	7	11.00	40
NL322522-121K	120	0.796	20	7	12.00	70
NL322522-151K	150	0.796	20	6	15.00	65
NL322522-181K	180	0.796	20	6	17.00	60
NL322522-221K	220	0.796	20	5	21.00	50

1. DC current at which the inductance drops 10%(typ) from its value without current.
2. Operating temperature range -25°C to 85°C.

# NL SERIES WOUND CHIP INDUCTORS NL453232 (1812)

## ELECTRICAL CHARACTERISTICS

P/N	L( $\mu$ H)	TEST FREQ (MHz)	Q MIN	SRF (MHz) Min	RDC ( $\Omega$ ) Max	IDC <sup>1</sup> (mA) Max
NL453232-R10K	0.10	25.2	28	700	0.44	450
NL453232-R12K	0.12	25.2	30	500	0.22	450
NL453232-R15K	0.15	25.2	30	450	0.25	450
NL453232-R18K	0.18	25.2	30	400	0.28	450
NL453232-R22K	0.22	25.2	30	350	0.32	450
NL453232-R27K	0.27	25.2	30	320	0.36	450
NL453232-R33K	0.33	25.2	30	300	0.40	450
NL453232-R39K	0.39	25.2	30	350	0.45	450
NL453232-R47K	0.47	25.2	30	220	0.50	450
NL453232-R56K	0.56	25.2	30	180	0.55	450
NL453232-R68K	0.68	25.2	30	160	0.60	450
NL453232-R82K	0.82	25.2	30	140	0.67	450
NL453232-1R0K	1.0	7.96	50	100	0.50	450
NL453232-1R2K	1.2	7.96	50	80	0.55	430
NL453232-1R5K	1.5	7.96	50	70	0.60	410
NL453232-1R8K	1.8	7.96	50	60	0.65	390
NL453232-2R2K	2.2	7.96	50	55	0.70	380
NL453232-2R7K	2.7	7.96	50	50	0.75	370
NL453232-3R3K	3.3	7.96	50	45	0.80	355
NL453232-3R9K	3.9	7.96	50	40	0.90	330
NL453232-4R7K	4.7	7.96	50	35	1.00	315
NL453232-5R6K	5.6	7.96	50	33	1.10	300
NL453232-6R8K	6.8	7.96	50	27	1.20	285
NL453232-8R2K	8.2	7.96	50	25	1.40	270
NL453232-100K	10	2.52	50	20	1.60	250
NL453232-120K	12	2.52	50	18	2.00	225
NL453232-150K	15	2.52	50	17	2.50	200
NL453232-180K	18	2.52	50	15	2.80	190
NL453232-220K	22	2.52	50	13	3.20	180
NL453232-270K	27	2.52	50	12	3.60	170
NL453232-330K	33	2.52	50	11	4.00	160
NL453232-390K	39	2.52	50	10	4.50	150
NL453232-470K	47	2.52	50	10	5.00	140
NL453232-560K	56	2.52	50	9	5.50	135
NL453232-680K	68	2.52	50	9	6.00	130
NL453232-820K	82	2.52	50	8	7.00	120
NL453232-101K	100	0.796	20	7	8.00	110
NL453232-121K	120	0.796	20	6	8.00	110
NL453232-151K	150	0.796	20	5	9.00	105
NL453232-181K	180	0.796	20	5	9.50	102
NL453232-221K	220	0.796	20	4	12.00	100
NL453232-271K	270	0.796	20	3	12.00	92
NL453232-331K	330	0.796	20	3	14.00	85
NL453232-391K	390	0.796	20	3	16.00	80
NL453232-471K	470	0.796	20	3	26.00	62
NL453232-561K	560	0.796	20	2	30.00	50
NL453232-681K	680	0.796	20	2	40.00	50
NL453232-821K	820	0.796	20	2	35.00	30
NL453232-102K	1000	0.252	20	2	46.00	30

1. DC current at which the inductance drops 10%(typ) from its value without current.
2. Operating temperature range -25°C to 85°C.