



**THE DATASHEET OF
NL322522T-R47J-3**



Inductors

For General Applications
SMD

NL Series NL3225 Type

FEATURES

- The NL series are available in 5 form factors ranging from 2016 to 5650.
- Utilizing a miniaturized winding structure, these products provide high Q characteristics.
- Inductance tolerance is ± 5 percent.

APPLICATIONS

Personal computers, hard disk drives, and other electronic equipment.

SPECIFICATIONS

Operating temperature range	-20 to +85°C
Storage temperature range	-40 to +85°C [Unit of products]

RECOMMENDED SOLDERING CONDITIONS

REFLOW SOLDERING



FLOW SOLDERING



IRON SOLDERING

Perform soldering at 250°C on 30W max. within 5 seconds.

VAPOR-PHASING



FLUX AND CLEANING

Rosin-based flux is recommended.

Cleaning Conditions

Solvent	Chlorine-based solvent (Do not use acid or alkali solvents.)
Time	2min max.

PRODUCT IDENTIFICATION

NL	201614	T	2R2	J
(1)	(2)	(3)	(4)	(5)

(1) Series name

(2) Dimensions L×W×T

201614	2.1×1.6×1.4mm
252018	2.5×2.0×1.8mm
322522	3.2×2.5×2.2mm
453232	4.5×3.2×3.2mm
565050	5.6×5.0×5.0mm

(3) Packaging style

T	Taping (reel)
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(4) Inductance value

1R0	1μH
330	33μH

(5) Inductance tolerance

J	$\pm 5\%$
K	$\pm 10\%$

PACKAGING STYLE AND QUANTITIES

Packaging style	Type	Quantity
Taping	NL201614T	2000 pieces/reel
	NL252018T	2000 pieces/reel
	NL322522T	2000 pieces/reel
	NL453232T	500 pieces/reel
	NL565050T	400 pieces/reel

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ELECTRICAL CHARACTERISTICS

Inductance (μH)	Inductance tolerance	Q min.	Test frequency L, Q (MHz)	Self-resonant frequency (MHz)min.	DC resistance (Ω)max.	Rated current (mA)max.	Part No.
15	±5%	30	2.52	20	2.8	130	NL322522T-150J
18	±5%	30	2.52	20	3.3	120	NL322522T-180J
22	±5%	30	2.52	20	3.7	110	NL322522T-220J
27	±5%	30	2.52	20	5	80	NL322522T-270J
33	±5%	30	2.52	17	5.6	70	NL322522T-330J
39	±5%	30	2.52	16	6.4	65	NL322522T-390J
47	±5%	30	2.52	15	7	60	NL322522T-470J
56	±5%	30	2.52	13	8	55	NL322522T-560J
68	±5%	30	2.52	12	9	50	NL322522T-680J
82	±5%	30	2.52	11	10	45	NL322522T-820J
100	±5%	20	0.796	10	10	40	NL322522T-101J
120	±5%	20	0.796	10	11	70	NL322522T-121J
150	±5%	20	0.796	8	15	65	NL322522T-151J
180	±5%	20	0.796	7	17	60	NL322522T-181J
220	±5%	20	0.796	7	21	50	NL322522T-221J
270	±5%	20	0.796	6	28	45	NL322522T-271J
330	±5%	20	0.796	5	34	40	NL322522T-331J
390	±5%	20	0.796	5	42	35	NL322522T-391J
470	±5%	20	0.796	4	40	25	NL322522T-471J

- Inductance tolerance is only standard.
- Test equipment L, Q: YHP4194A IMPEDANCE ANALYZER (16085A+16093B+TDK TF-1) [$L \geq 0.12\mu\text{H}$]
SRF: HP8753C NETWORK ANALYZER
Rdc: MATSUSHITA VP-2941A DIGITAL MILLIOHM METER

TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. FREQUENCY CHARACTERISTICS



INDUCTANCE CHANGE vs. DC

SUPERPOSITION CHARACTERISTICS



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TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



INDUCTANCE CHANGE vs. TEMPERATURE CHARACTERISTICS





Q vs. FREQUENCY CHARACTERISTICS



Looking for pricing, stock, or lifecycle information?

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