



**THE DATASHEET OF
NLC322522T-6R8K-S**



Inductors

For Power Line SMD

NLC Series NLC3225 Type

(We currently recommend that you switch to the NLCV32 type.)

FEATURES

- The NLC series feature low DC resistance and high current handling capacities, making them ideal for power supply line applications.
- They are available in ranging from 2520 to 5650 types.

APPLICATIONS

Portable telephones, personal computers, hard disk drives, and other electronic equipment.

SPECIFICATIONS

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

RECOMMENDED SOLDERING CONDITIONS

(LEAD-CONTAINING SOLDER)

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	Please select the solvent of this product avoiding a strong acid and a strong alkali, and considering the environments.
Time	2min max.

PRODUCT IDENTIFICATION

NLC	322522	T-	2R2	M
(1)	(2)	(3)	(4)	(5)

(1) Series name

(2) Dimensions L×W×T

322522	3.2×2.5×2.2mm
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(3) Packaging style

T	Taping(reel)
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(4) Inductance value

1R0	1μH
330	33μH

(5) Inductance tolerance

K	±10%
M	±20%

PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	2000 pieces/reel

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For Power Line

SMD

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SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

Inductance (μH)	Inductance tolerance	Q ref.	Test frequency L, Q (MHz)	Self-resonant frequency (MHz)min.	DC resistance (Ω)±30%	Rated current (mA)max.	Part No.
1	±20%	10	7.96	100	0.08	850	NLC322522T-1R0M
1.5	±20%	10	7.96	80	0.11	700	NLC322522T-1R5M
2.2	±20%	10	7.96	68	0.13	600	NLC322522T-2R2M
3.3	±20%	10	7.96	54	0.16	500	NLC322522T-3R3M
4.7	±20%	15	7.96	46	0.2	430	NLC322522T-4R7M
6.8	±20%	15	7.96	38	0.27	360	NLC322522T-6R8M
10	±10%	15	2.52	30	0.36	300	NLC322522T-100K
15	±10%	15	2.52	26	0.56	250	NLC322522T-150K
22	±10%	15	2.52	21	0.77	210	NLC322522T-220K
33	±10%	15	2.52	17	1.1	170	NLC322522T-330K
47	±10%	15	2.52	14	1.64	150	NLC322522T-470K
68	±10%	15	2.52	12	2.8	120	NLC322522T-680K
100	±10%	15	0.796	10	3.7	100	NLC322522T-101K
150	±10%	20	0.796	8	6.1	85	NLC322522T-151K
220	±10%	20	0.796	7	8.4	70	NLC322522T-221K
330	±10%	20	0.796	6	12.3	60	NLC322522T-331K

- Test equipment L, Q: YHP4194A IMPEDANCE ANALYZER+YHP16085A+YHP16093B+TF-1, or equivalent
SRF: HP8753C NETWORK ANALYZER (Z_{in}=Z_{out}=50Ω), or equivalent
Rdc: MATSUSHITA VP-2941A DIGITAL MILLIOHM METER, or equivalent

- Marking: Inductance tolerance is omitted to distinguish NL series.

TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



IMPEDANCE vs. FREQUENCY CHARACTERISTICS



Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View NLC322522T-6R8K-S on WIN SOURCE](#)
- ⊖ [TDK Corporation Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management