



**THE DATASHEET OF
NLC453232T-2R2K**



Inductors

For Power Line SMD

NLC Series NLC4532 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

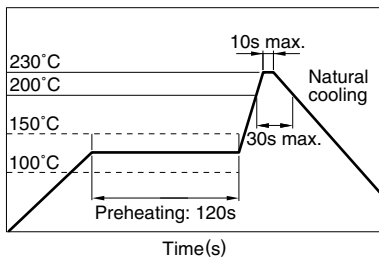
Portable telephones, personal computers, hard disk drives, and other electronic equipment.

SPECIFICATIONS

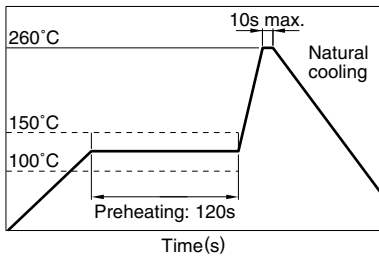
Operating temperature range	-40 to +85°C
Storage temperature range	-40 to +85°C [Unit of products]

RECOMMENDED SOLDERING CONDITIONS

REFLOW SOLDERING



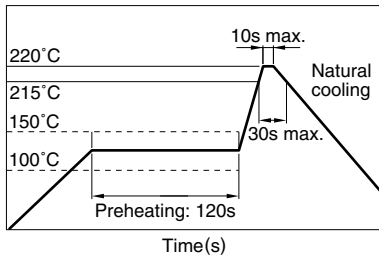
FLOW SOLDERING



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	453232	T-	2R2	M
(1)	(2)	(3)	(4)	(5)

(1) Series name

(2) Dimensions L×W×T

453232	4.5×3.2×3.2mm
--------	---------------

(3) Packaging style

T	Taping(reel)
---	--------------

(4) Inductance value

1R0	1μH
330	33μH

(5) Inductance tolerance

K	±10%
---	------

PACKAGING STYLE AND QUANTITIES

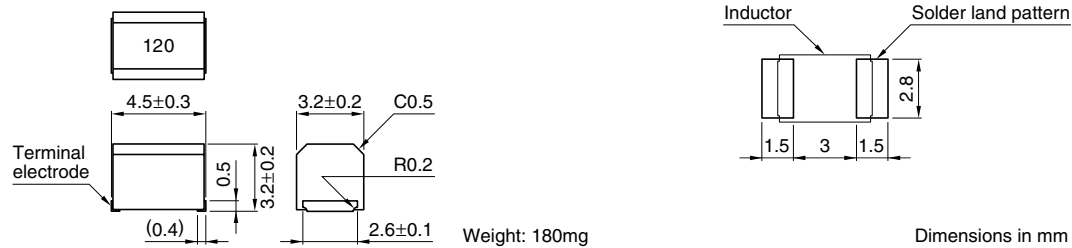
Packaging style	Quantity
Taping	500 pieces/reel

Inductors

NLC Series NLC4532 Type

For Power Line
SMD

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



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.
1	±10%	10	7.96	200	0.11	1050	NLC453232T-1R0K
1.2	±10%	10	7.96	160	0.12	1000	NLC453232T-1R2K
1.5	±10%	10	7.96	130	0.15	950	NLC453232T-1R5K
1.8	±10%	10	7.96	100	0.16	900	NLC453232T-1R8K
2.2	±10%	10	7.96	80	0.18	850	NLC453232T-2R2K
2.7	±10%	10	7.96	60	0.2	800	NLC453232T-2R7K
3.3	±10%	10	7.96	45	0.22	750	NLC453232T-3R3K
3.9	±10%	10	7.96	40	0.24	700	NLC453232T-3R9K
4.7	±10%	10	7.96	35	0.27	650	NLC453232T-4R7K
5.6	±10%	10	7.96	30	0.3	650	NLC453232T-5R6K
6.8	±10%	10	7.96	28	0.35	600	NLC453232T-6R8K
8.2	±10%	10	7.96	25	0.4	600	NLC453232T-8R2K
10	±10%	10	2.52	22	0.5	550	NLC453232T-100K
12	±10%	10	2.52	21	0.6	500	NLC453232T-120K
15	±10%	10	2.52	20	0.7	450	NLC453232T-150K
18	±10%	10	2.52	19	0.8	400	NLC453232T-180K
22	±10%	10	2.52	18	0.9	370	NLC453232T-220K
27	±10%	10	2.52	16	1.2	330	NLC453232T-270K
33	±10%	10	2.52	14	1.4	300	NLC453232T-330K
39	±10%	10	2.52	12	1.6	280	NLC453232T-390K
47	±10%	10	2.52	11.5	1.9	260	NLC453232T-470K
56	±10%	10	2.52	11	2.2	240	NLC453232T-560K
68	±10%	10	2.52	10	2.6	220	NLC453232T-680K
82	±10%	10	2.52	9	3.5	200	NLC453232T-820K
100	±10%	20	0.796	8	4	180	NLC453232T-101K
120	±10%	20	0.796	7.5	4.5	160	NLC453232T-121K
150	±10%	20	0.796	7	6.5	140	NLC453232T-151K
180	±10%	20	0.796	6.5	7.5	120	NLC453232T-181K
220	±10%	20	0.796	5.5	9	120	NLC453232T-221K
270	±10%	20	0.796	5	11	100	NLC453232T-271K
330	±10%	20	0.796	4	13	90	NLC453232T-331K

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

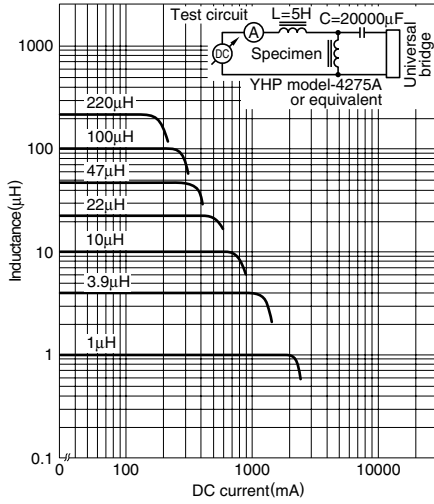
- Marking: Inductance tolerance is omitted to distinguish NL series.

Inductors

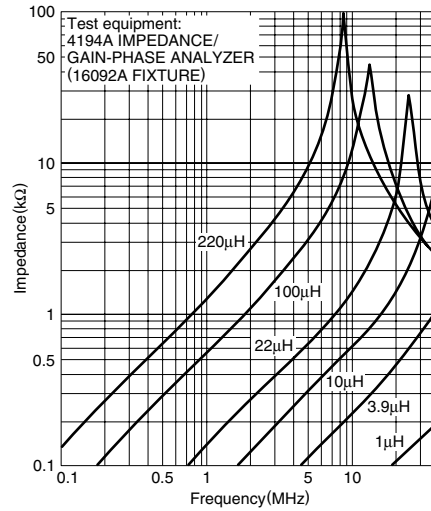
For Power Line
SMD

NLC Series NLC4532 Type

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 NLC453232T-2R2K 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