Inductors

For General Applications
SMD

NLV Series NLV25 Type

FEATURES

- Provides high Q while using 252018 size winding construction.
- Environmentally friendly due to use of recyclable plastic (thermoplastic).
- Logo omitted to simplify production.
- Maintains interchangeability with earlier NL product series.
- NLV series are E-6 products, while NLCV and NLFV series are E-3 products.

APPLICATIONS

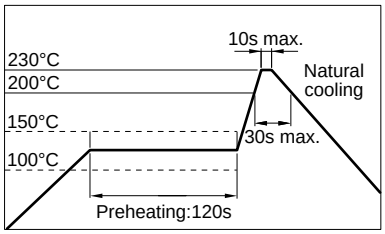
PCs, hard disk drives, and other types of electronics

SPECIFICATIONS

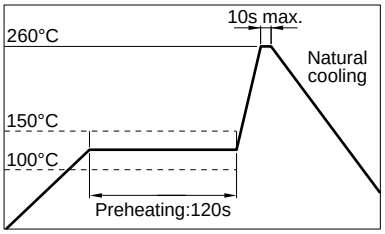
Type	Operating temperature range	Storage temperature range[Unit of products]
NLV25	–20 to +85°C	–40 to +85°C
NLCV25	–20 to +85°C	–40 to +85°C
NLFV25	–20 to +85°C	–40 to +85°C

RECOMMENDED SOLDERING CONDITIONS

REFLOW SOLDERING



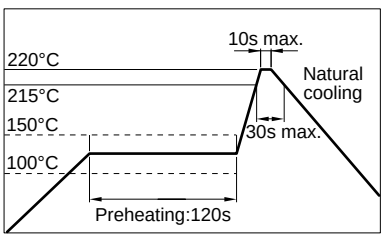
FLOW SOLDERING



IRON SOLDERING

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

VAPOR-PHASING



PRODUCT IDENTIFICATION

NLV	25	T-	2R2	J
(1)	(2)	(3)	(4)	(5)

(1) Series name

(2) Dimensions LxWxT

252018	2.5×2.0×1.8mm

(3) Packaging style

T	Taping (reel)

(4) Inductance value

1R0	1µH
220	22µH

(5) Inductance tolerance

J	±5%
K	±10%
M	±20%

PACKAGING STYLE AND QUANTITIES

Packaging style	Type	Quantity
Taping	NLV25T	2000 pieces/reel
	NLCV25T	2000 pieces/reel
	NLFV25T	2000 pieces/reel

PRECAUTIONS

- The exterior of this product can melt since due to thermoplastic construction. During mechanical contact while at the plastic softening temperature, deformation can occur at the contact location. Therefore caution is required when utilizing a soldering iron during the soldering operation.

FLUX AND CLEANING

Rosin-based flux is recommended.

Cleaning Conditions

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

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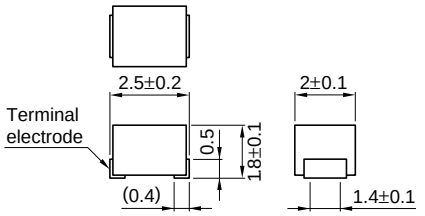
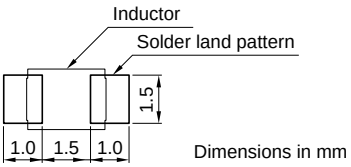
SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



Weight:25mg



Dimensions in mm

ELECTRICAL CHARACTERISTICS

Inductance(µH)	Inductance tolerance	Q typ.	Test frequency L,Q (MHz)	Self-resonant frequency (MHz)min.	DC resistance (Ω)max.	Rated current (mA)max.	Part No.
1	±5%	30	7.96	245	1.1	245	NLV25T-1R0J
1.5	±5%	30	7.96	182	1.3	220	NLV25T-1R5J
2.2	±5%	30	7.96	105	1.55	200	NLV25T-2R2J
3.3	±5%	30	7.96	55	1.9	185	NLV25T-3R3J
4.7	±5%	30	7.96	43	2.3	175	NLV25T-4R7J
6.8	±5%	25	7.96	39	2.7	165	NLV25T-6R8J
10	±5%	25	2.52	33	3.5	155	NLV25T-100J
15	±5%	25	2.52	26	4.4	140	NLV25T-150J
22	±5%	25	2.52	22	5.5	125	NLV25T-220J
33	±5%	20	2.52	20	7.1	110	NLV25T-330J
47	±5%	20	2.52	17	11.1	80	NLV25T-470J
68	±5%	20	2.52	15	16.6	70	NLV25T-680J
100	±5%	15	0.796	12	21	60	NLV25T-101J

• Test equipment L, Q: HP4191A IMPEDANCE/GAIN PHASE ANALYZER(16085A+16093B+TDK TF-1)
SRF: HP8753C NETWORK ANALYZER
Rdc: MATSUSHITA VP-2941A DIGITAL MILLIOHM METER

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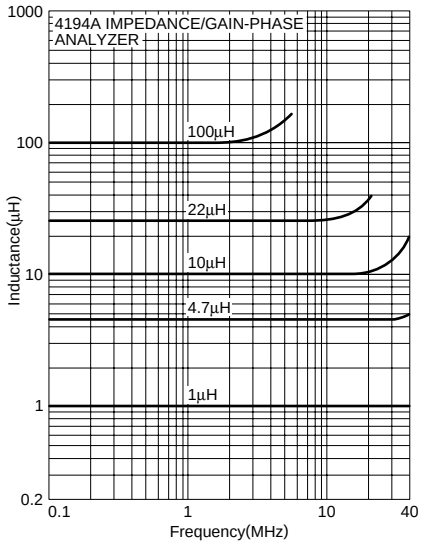
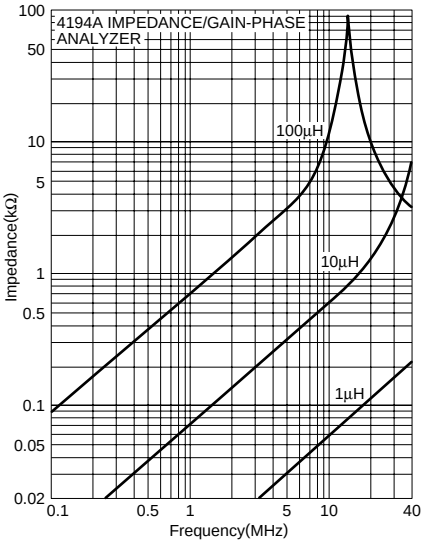
TYPICAL ELECTRICAL CHARACTERISTICS

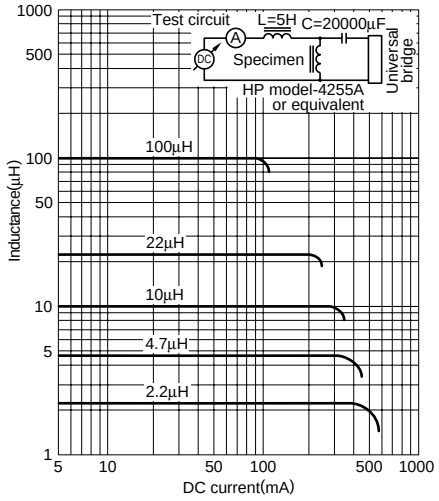
INDUCTANCE CHANGE vs. FREQUENCY CHARACTERISTICS



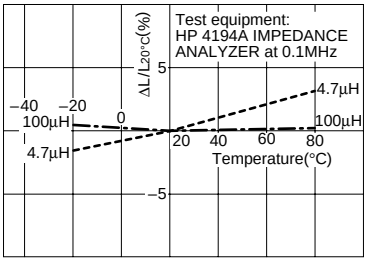
IMPEDANCE vs. FREQUENCY CHARACTERISTICS



INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



INDUCTANCE CHANGE vs. TEMPERATURE CHARACTERISTICS



Q vs. FREQUENCY CHARACTERISTICS