Inductors

For Power Line SMD

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

Tuno	Operating temperature	Storage temperature		
туре	range	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



NLCV Series NLCV25 Type

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

(4)	Inductance valu	e

1R0	1μΗ	
220	22μΗ	

Taping (reel)

(5) Inductance tolerance

J	±5%
К	±10%
M	±20%

PACKAGING STYLE AND QUANTITIES

Packaging style	Туре	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.

NLCV Series NLCV25 Type

For Power Line SMD

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN





ELECTRICAL CHARACTERISTICS

Inductance(µH)	Inductance tolerance	Q typ.	Test frequency L,Q (MHz)	Self-resonant frequency (MHz)min.	DC resistance (Ω)±30%	Rated current (mA)max.	Part No.
1	±20%	20	7.96	200	0.34	475	NLCV25T-1R0M
2.2	±20%	20	7.96	95	0.5	390	NLCV25T-2R2M
4.7	±20%	20	7.96	43	0.8	285	NLCV25T-4R7M
10	±10%	30	2.52	32	1.69	210	NLCV25T-100K
22	±10%	30	2.52	18	2.8	160	NLCV25T-220K

• Test equipment L, Q: HP4194A IMPEDANCE/GAIN PHASE ANALYZER+HP16085A+HP16093 B+TF-1

SRF: HP8753C NETWORK ANALYZER

Rdc: MATSUSHITA VP-2941A DIGITAL MILLIOHM METER

TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS

IMPEDANCE vs. FREQUENCY CHARACTERISTICS





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