Inductors for High-frequency Circuits

Wound/STD

NLHV series

Type: **NLHV25** **2520[1008 inch]***

*** Dimensions Code JIS[EIA]**

Issue date: September 2011

- All specifications are subject to change without notice.
- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

TDK

Inductors for High-frequency Circuits Wound/STD

Conformity to RoHS Directive

NLHV Series NLHV25

FEATURES

- High Q-factor is provided in frequency band more than 30MHz in comparison with existing NLV25 series.
- Land pattern is compatible with an existing series product.
- Lead-free material is used for the plating on the terminal

APPLICATIONS

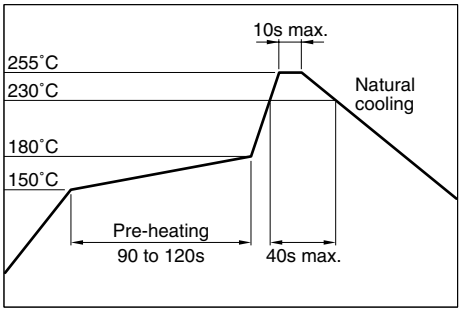
Power supply lines, audio visual systems, IT equipment

SPECIFICATIONS

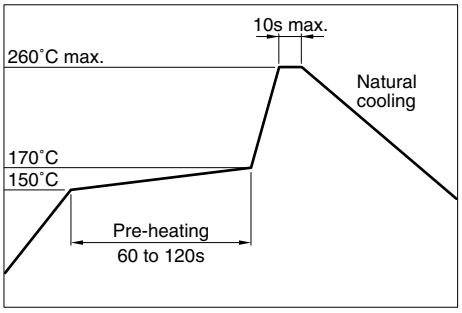
Operating temperature range	–40 to +105°C [Including self-temperature rise]
Storage temperature range	–40 to +105°C

RECOMMENDED SOLDERING CONDITIONS

REFLOW SOLDERING



FLOW SOLDERING



IRON SOLDERING

Tip temperature	300 to 350°C
Heating time	3 secconds/soldering
Soldering rod specifications	Output: 30W Tip diameter: 1mm

- Based on the above conditions, use a maximum product temperature of 260°C and a maximum accumulated heating time of 10 seconds as a guideline.
- Please contact us for details.

PRODUCT IDENTIFICATION

NLHV	25	T	R12	J	-	PF
(1)	(2)	(3)	(4)	(5)		(6)

(1) Series name

(2) Dimensions

25	2.5×2.0×1.8mm(L×W×T)

(3) Packaging style

T	Taping (reel)

(4) Inductance

R12	0.12µH

(5) Inductance tolerance

J	±5%

(6) Lead-free compatible product

PF	Conformity to RoHS directive, exemption regulations apply
EF	Conformity to RoHS directive

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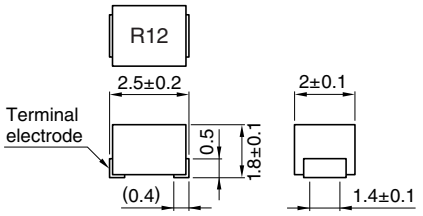
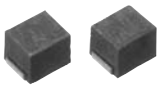
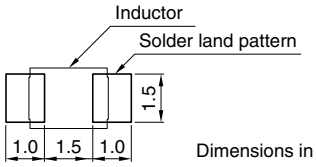
SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



Weight:25mg





Dimensions in mm

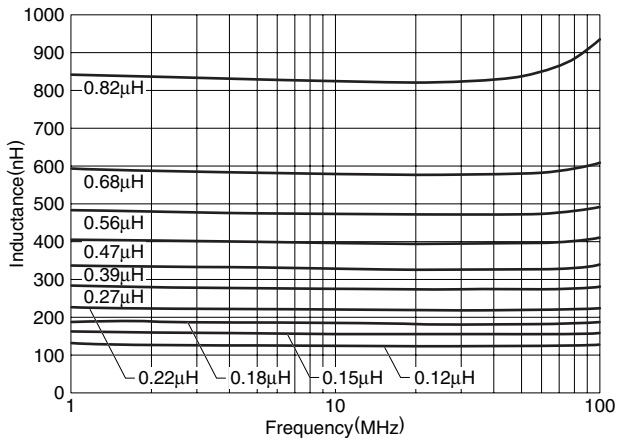
ELECTRICAL CHARACTERISTICS

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.
0.12	±5%	30	25.2	700	0.38	550	NLHV25T-R12J-□*
0.15	±5%	30	25.2	550	0.42	500	NLHV25T-R15J-□
0.18	±5%	35	25.2	500	0.45	475	NLHV25T-R18J-□
0.22	±5%	35	25.2	450	0.5	450	NLHV25T-R22J-□
0.27	±5%	35	25.2	425	0.58	425	NLHV25T-R27J-□
0.33	±5%	40	25.2	400	0.68	400	NLHV25T-R33J-□
0.39	±5%	40	25.2	375	0.73	375	NLHV25T-R39J-□
0.47	±5%	40	25.2	350	0.83	350	NLHV25T-R47J-□
0.56	±5%	40	25.2	325	0.93	325	NLHV25T-R56J-□
0.68	±5%	40	25.2	180	0.98	300	NLHV25T-R68J-□
0.82	±5%	40	25.2	120	1.05	280	NLHV25T-R82J-□

* □: Please specify lead-free compatible product, PF (Conformity to RoHS directive, exemption regulations apply) or EF (Conformity to RoHS directive)

TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. FREQUENCY CHARACTERISTICS



Q vs. FREQUENCY CHARACTERISTICS