

## **Inductors for High-frequency Circuits**

Wound/STD

### **NLHV** series

Type: NLHV25 2520[1008 inch]\*

\* Dimensions Code JIS[EIA]

Issue date: September 2011

<sup>•</sup> All specifications are subject to change without notice.

<sup>•</sup> 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.

### **公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

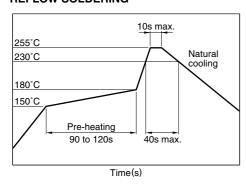
### **APPLICATIONS**

Power supply lines, audio visual systems, IT equipment

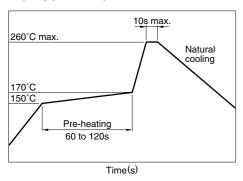
#### **SPECIFICATIONS**

Operating temperature range	−40 to +105°C			
Operating temperature range	[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	Т	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

		-	-	-		
•	Т				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

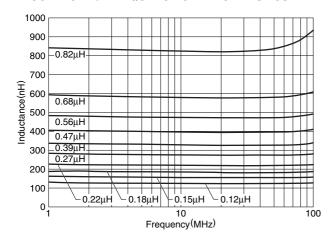


### **ELECTRICAL CHARACTERISTICS**

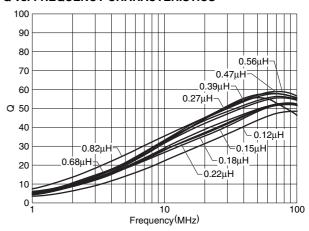
Inductance	Inductance	Q	Test frequency L,Q	Self-resonant frequency	DC resistance	Rated current	Part No.
(μH)	tolerance	min.	(MHz)	(MHz)min.	$(\Omega)$ max.	(mA)max.	ran No.
0.12	±5%	30	25.2	700	0.38	550	NLHV25T-R12J-□*
0.15	±5%	30	25.2	550	0.42	500	NLHV25T-R15J-
0.18	±5%	35	25.2	500	0.45	475	NLHV25T-R18J-
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-□

<sup>\* :</sup> 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



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