# **&TDK**

# SMD Inductors(Coils) For Signal Line(Wound)

### Conformity to RoHS Directive

# **NLV Series NLV25**

#### **FEATURES**

- The product has good heat durability that withstands lead-free compatible reflow soldering conditions.
- · Lead-free material is used for the plating on the terminal
- The electrical characteristics, reliability, shape and pad shape are the same as the previous NL series.
- The product uses metal terminals, which realize excellent connection reliability.
- Highly heat resistant thermoplastic resin is used to form the exterior package.
- From  $0.01\mu H$  to  $100\mu H$ , all of the products in the E-12 series are  $J(\pm 5\%)$  tolerance products.
- This product conforms to the standards that are slated to be introduced under the RoHS Directive.

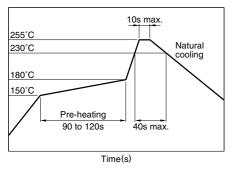
#### **APPLICATIONS**

- Audio-visual equipment including TVs, VCRs and digital cameras.
- Electronic equipment used in communication infrastructures including xDSL and mobile base stations.
- Electronic equipment used in onboard automobile equipment including car audio and ECU systems.
- Other electronic equipment including HDDs and ODDs.

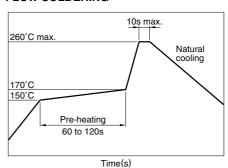
### **SPECIFICATIONS**

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

NLV	25	T-	2R2	J	- PF
(1)	(2)	(3)	(4)	(5)	(6)

(1) Series name

# (2) Dimensions

25 2.5×2.0×1.8mm (I×W×T)		
	25	2.5×2.0×1.8mm (L×W×T)

# (3) Packaging style

(4) Inductance value		
010	0.01μH	
R10	0.1uH	

Taping (reel)

 R10
 0.1μH

 1R0
 1μH

 100
 10μH

 101
 100μH

# (5) Inductance tolerance

J ±5%

### (6) Lead-free compatible product

PF Lead-free compatible product

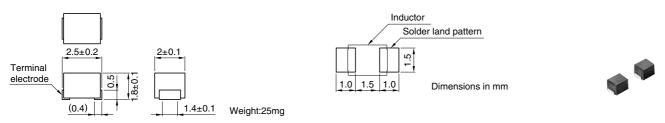
#### PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	2000 pieces/reel

• 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.



#### SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



# **ELECTRICAL CHARACTERISTICS**

0.012         ±5%         15         100         2050         0.27         500         NIV2ST           0.015         ±5%         15         100         2000         0.29         480         NIV2ST           0.022         ±5%         15         100         1850         0.31         450         NIV2ST           0.027         ±5%         15         100         1650         0.37         420         NIV2ST           0.033         ±5%         20         100         1450         0.42         400         NIV2ST           0.039         ±5%         20         100         1350         0.45         380         NIV2ST           0.047         ±5%         20         100         1350         0.45         380         NIV2ST           0.066         ±5%         20         100         1100         0.6         340         NIV2ST           0.086         ±5%         20         100         11050         0.65         320         NIV2ST           0.082         ±5%         20         100         900         0.75         300         NIV2ST           0.12         ±5%         30         25.2         700	•
0.012         ±5%         15         100         2050         0.27         500         NIV2ST           0.015         ±5%         15         100         2000         0.29         480         NIV2ST           0.022         ±5%         15         100         1850         0.37         420         NIV2ST           0.027         ±5%         15         100         1550         0.4         400         NIV2ST           0.033         ±5%         20         100         1450         0.42         400         NIV2ST           0.039         ±5%         20         100         1350         0.45         380         NIV2ST           0.047         ±5%         20         100         1200         0.5         360         NIV2ST           0.066         ±5%         20         100         1100         0.6         340         NIV2ST           0.082         ±5%         20         100         1050         0.65         320         NIV2ST           0.082         ±5%         20         100         900         0.75         300         NIV2ST           0.12         ±5%         30         25.2         700	-010J-PF
0.018         ±5%         15         100         1850         0.31         450         NLV25T           0.022         ±5%         15         100         1650         0.37         420         NLV25T           0.027         ±5%         15         100         1550         0.4         410         NLV25T           0.033         ±5%         20         100         1450         0.42         400         NLV25T           0.047         ±5%         20         100         1350         0.45         380         NLV25T           0.057         ±5%         20         100         1200         0.5         360         NLV25T           0.068         ±5%         20         100         1100         0.6         340         NLV25T           0.082         ±5%         20         100         900         0.75         300         NLV25T           0.1         ±5%         20         100         800         0.8         280         NLV25T           0.1         ±5%         30         25.2         700         0.3         550         NLV25T           0.1         ±5%         30         25.2         550         <	-012J-PF
0.018         ±5%         15         100         1850         0.31         450         NLV25T           0.022         ±5%         15         100         1650         0.37         420         NLV25T           0.027         ±5%         15         100         1550         0.4         410         NLV25T           0.033         ±5%         20         100         1450         0.42         400         NLV25T           0.047         ±5%         20         100         1350         0.45         380         NLV25T           0.066         ±5%         20         100         1100         0.6         340         NLV25T           0.068         ±5%         20         100         1100         0.6         340         NLV25T           0.082         ±5%         20         100         900         0.75         300         NLV25T           0.11         ±5%         20         100         800         0.8         280         NLV25T           0.12         ±5%         30         25.2         700         0.3         550         NLV25T           0.12         ±5%         30         25.2         550	-015J-PF
0.022         ±5%         15         100         1650         0.37         420         NLV2ST           0.027         ±5%         15         100         1550         0.4         410         NLV2ST           0.033         ±5%         20         100         1450         0.42         400         NLV2ST           0.047         ±5%         20         100         1350         0.45         380         NLV2ST           0.056         ±5%         20         100         1200         0.5         360         NLV2ST           0.068         ±5%         20         100         1050         0.65         320         NLV2ST           0.082         ±5%         20         100         900         0.75         300         NLV2ST           0.1         ±5%         20         100         800         0.8         280         NLV2ST           0.12         ±5%         30         25.2         700         0.3         550         NLV2ST           0.12         ±5%         30         25.2         550         0.35         500         NLV2ST           0.12         ±5%         30         25.2         500         <	-018J-PF
0.033         ±5%         20         100         1450         0.42         400         NLV25T           0.039         ±5%         20         100         1350         0.45         380         NLV25T           0.047         ±5%         20         100         1200         0.5         360         NLV25T           0.056         ±5%         20         100         1100         0.65         320         NLV25T           0.082         ±5%         20         100         1050         0.65         320         NLV25T           0.12         ±5%         20         100         900         0.75         300         NLV25T           0.12         ±5%         20         100         800         0.8         280         NLV25T           0.12         ±5%         30         25.2         700         0.3         550         NLV25T           0.15         ±5%         30         25.2         550         0.35         550         NLV25T           0.18         ±5%         30         25.2         550         0.3         550         NLV25T           0.18         ±5%         30         25.2         450 <t< td=""><td>-022J-PF</td></t<>	-022J-PF
0.033         ±5%         20         100         1450         0.42         400         NLV25T           0.039         ±5%         20         100         1350         0.45         380         NLV25T           0.047         ±5%         20         100         1200         0.5         360         NLV25T           0.056         ±5%         20         100         1100         0.65         320         NLV25T           0.082         ±5%         20         100         1050         0.65         320         NLV25T           0.12         ±5%         20         100         900         0.75         300         NLV25T           0.12         ±5%         20         100         800         0.8         280         NLV25T           0.12         ±5%         30         25.2         700         0.3         550         NLV25T           0.15         ±5%         30         25.2         550         0.35         550         NLV25T           0.18         ±5%         30         25.2         550         0.3         550         NLV25T           0.18         ±5%         30         25.2         450 <t< td=""><td>-027J-PF</td></t<>	-027J-PF
0.047         ±5%         20         100         1200         0.5         360         NLV25T           0.056         ±5%         20         100         1100         0.6         340         NLV25T           0.088         ±5%         20         100         1050         0.65         320         NLV25T           0.082         ±5%         20         100         900         0.75         300         NLV25T           0.1         ±5%         20         100         800         0.8         280         NLV25T           0.12         ±5%         30         25.2         700         0.3         550         NLV25T           0.15         ±5%         30         25.2         550         0.35         500         NLV25T           0.18         ±5%         30         25.2         500         0.4         460         NLV25T           0.18         ±5%         30         25.2         450         0.5         430         NLV25T           0.22         ±5%         30         25.2         425         0.55         430         NLV25T           0.27         ±5%         30         25.2         425         0.	-033J-PF
0.056         ±5%         20         100         1100         0.66         340         NLV2ST           0.088         ±5%         20         100         1050         0.65         320         NLV2ST           0.082         ±5%         20         100         900         0.75         300         NLV2ST           0.1         ±5%         20         100         800         0.8         280         NLV2ST           0.12         ±5%         30         25.2         700         0.3         550         NLV2ST           0.15         ±5%         30         25.2         550         0.35         550         NLV2ST           0.18         ±5%         30         25.2         550         0.35         500         NLV2ST           0.18         ±5%         30         25.2         450         0.5         430         NLV2ST           0.22         ±5%         30         25.2         450         0.5         430         NLV2ST           0.27         ±5%         30         25.2         426         0.55         420         NLV2ST           0.33         ±5%         30         25.2         375         0	-039J-PF
0.068         ±5%         20         100         1050         0.65         320         NLV2ST           0.082         ±5%         20         100         900         0.75         300         NLV2ST           0.1         ±5%         20         100         800         0.8         280         NLV2ST           0.12         ±5%         30         25.2         700         0.3         550         NLV2ST           0.15         ±5%         30         25.2         550         0.35         500         NLV2ST           0.18         ±5%         30         25.2         550         0.35         500         NLV2ST           0.18         ±5%         30         25.2         450         0.4         460         NLV2ST           0.22         ±5%         30         25.2         450         0.5         430         NLV2ST           0.27         ±5%         30         25.2         425         0.55         420         NLV2ST           0.27         ±5%         30         25.2         400         0.6         400         NLV2ST           0.33         ±5%         30         25.2         375         0.6	-047J-PF
0.068         ±5%         20         100         1050         0.65         320         NLV2ST           0.082         ±5%         20         100         900         0.75         300         NLV2ST           0.1         ±5%         20         100         800         0.8         280         NLV2ST           0.12         ±5%         30         25.2         700         0.3         550         NLV2ST           0.15         ±5%         30         25.2         550         0.35         500         NLV2ST           0.18         ±5%         30         25.2         550         0.35         500         NLV2ST           0.18         ±5%         30         25.2         450         0.4         460         NLV2ST           0.22         ±5%         30         25.2         450         0.5         430         NLV2ST           0.27         ±5%         30         25.2         425         0.55         420         NLV2ST           0.27         ±5%         30         25.2         400         0.6         400         NLV2ST           0.33         ±5%         30         25.2         375         0.6	-056J-PF
0.082         ±5%         20         100         900         0.75         300         NLV2ST           0.1         ±5%         20         100         800         0.8         280         NLV2ST           0.12         ±5%         30         25.2         700         0.3         550         NLV2ST           0.15         ±5%         30         25.2         550         0.35         500         NLV2ST           0.18         ±5%         30         25.2         500         0.4         460         NLV2ST           0.18         ±5%         30         25.2         450         0.5         430         NLV2ST           0.22         ±5%         30         25.2         425         0.55         420         NLV2ST           0.33         ±5%         30         25.2         400         0.6         400         NLV2ST           0.33         ±5%         30         25.2         375         0.65         375         NLV2ST           0.47         ±5%         30         25.2         350         0.68         350         NLV2ST           0.56         ±5%         30         25.2         325         0.75	-068J-PF
0.1         ±5%         20         100         800         0.8         280         NLV2ST           0.12         ±5%         30         25.2         700         0.3         550         NLV2ST           0.15         ±5%         30         25.2         550         0.35         500         NLV2ST           0.18         ±5%         30         25.2         500         0.4         460         NLV2ST           0.22         ±5%         30         25.2         450         0.5         430         NLV2ST           0.27         ±5%         30         25.2         425         0.55         420         NLV2ST           0.33         ±5%         30         25.2         425         0.55         420         NLV2ST           0.39         ±5%         30         25.2         400         0.6         400         NLV2ST           0.47         ±5%         30         25.2         375         0.65         375         NLV2ST           0.47         ±5%         30         25.2         350         0.68         350         NLV2ST           0.66         ±5%         30         25.2         300         0.85	-082J-PF
0.12         ±5%         30         25.2         700         0.3         550         NLV25T           0.15         ±5%         30         25.2         550         0.35         500         NLV25T           0.18         ±5%         30         25.2         500         0.4         460         NLV25T           0.22         ±5%         30         25.2         450         0.5         430         NLV25T           0.27         ±5%         30         25.2         425         0.55         420         NLV25T           0.33         ±5%         30         25.2         400         0.6         400         NLV25T           0.39         ±5%         30         25.2         375         0.65         375         NLV25T           0.47         ±5%         30         25.2         350         0.68         350         NLV25T           0.66         ±5%         30         25.2         325         0.75         325         NLV25T           0.68         ±5%         30         25.2         300         0.85         300         NLV25T           0.68         ±5%         30         25.2         260         1	-R10J-PF
0.15         ±5%         30         25.2         550         0.35         500         NLV25T           0.18         ±5%         30         25.2         500         0.4         460         NLV25T           0.22         ±5%         30         25.2         450         0.5         430         NLV25T           0.27         ±5%         30         25.2         425         0.55         420         NLV25T           0.33         ±5%         30         25.2         400         0.6         400         NLV25T           0.39         ±5%         30         25.2         375         0.65         375         NLV25T           0.47         ±5%         30         25.2         350         0.68         350         NLV25T           0.56         ±5%         30         25.2         325         0.75         325         NLV25T           0.68         ±5%         30         25.2         300         0.85         300         NLV25T           0.82         ±5%         30         25.2         260         1         260         NLV25T           1         ±5%         30         7.96         245         1.1 <td>-R12J-PF</td>	-R12J-PF
0.18         ±5%         30         25.2         500         0.4         460         NLV25T           0.22         ±5%         30         25.2         450         0.5         430         NLV25T           0.27         ±5%         30         25.2         425         0.55         420         NLV25T           0.33         ±5%         30         25.2         400         0.6         400         NLV25T           0.39         ±5%         30         25.2         375         0.65         375         NLV25T           0.47         ±5%         30         25.2         350         0.68         350         NLV25T           0.56         ±5%         30         25.2         325         0.75         325         NLV25T           0.68         ±5%         30         25.2         300         0.85         300         NLV25T           0.68         ±5%         30         25.2         260         1         260         NLV25T           0.82         ±5%         30         7.96         245         1.1         245         NLV25T           1.2         ±5%         30         7.96         182         1.3 </td <td>R15J-PF</td>	R15J-PF
0.22         ±5%         30         25.2         450         0.5         430         NLV25T           0.27         ±5%         30         25.2         425         0.55         420         NLV25T           0.33         ±5%         30         25.2         400         0.6         400         NLV25T           0.39         ±5%         30         25.2         375         0.65         375         NLV25T           0.47         ±5%         30         25.2         350         0.68         350         NLV25T           0.56         ±5%         30         25.2         325         0.75         325         NLV25T           0.68         ±5%         30         25.2         300         0.85         300         NLV25T           0.68         ±5%         30         25.2         260         1         260         NLV25T           0.82         ±5%         30         7.96         245         1.1         245         NLV25T           1         ±5%         30         7.96         230         1.2         230         NLV25T           1.5         ±5%         30         7.96         135         1.45 <td>-R18J-PF</td>	-R18J-PF
0.27         ±5%         30         25.2         425         0.55         420         NLV25T           0.33         ±5%         30         25.2         400         0.6         400         NLV25T           0.39         ±5%         30         25.2         375         0.65         375         NLV25T           0.47         ±5%         30         25.2         350         0.68         350         NLV25T           0.56         ±5%         30         25.2         325         0.75         325         NLV25T           0.68         ±5%         30         25.2         325         0.75         325         NLV25T           0.68         ±5%         30         25.2         300         0.85         300         NLV25T           0.82         ±5%         30         25.2         260         1         260         NLV25T           1         ±5%         30         7.96         245         1.1         245         NLV25T           1.2         ±5%         30         7.96         135         1.45         210         NLV25T           1.8         ±5%         30         7.96         135         1.45 <td>R22J-PF</td>	R22J-PF
0.33         ±5%         30         25.2         400         0.6         400         NLV25T           0.39         ±5%         30         25.2         375         0.65         375         NLV25T           0.47         ±5%         30         25.2         350         0.68         350         NLV25T           0.56         ±5%         30         25.2         325         0.75         325         NLV25T           0.68         ±5%         30         25.2         300         0.85         300         NLV25T           0.82         ±5%         30         25.2         260         1         260         NLV25T           1.2         ±5%         30         7.96         245         1.1         245         NLV25T           1.2         ±5%         30         7.96         230         1.2         230         NLV25T           1.5         ±5%         30         7.96         182         1.3         220         NLV25T           2.2         ±5%         30         7.96         135         1.45         210         NLV25T           2.7         ±5%         30         7.96         7.96         105	R27J-PF
0.39         ±5%         30         25.2         375         0.65         375         NLV25T           0.47         ±5%         30         25.2         350         0.68         350         NLV25T           0.56         ±5%         30         25.2         325         0.75         325         NLV25T           0.68         ±5%         30         25.2         300         0.85         300         NLV25T           0.82         ±5%         30         25.2         260         1         260         NLV25T           1         ±5%         30         7.96         245         1.1         245         NLV25T           1.2         ±5%         30         7.96         230         1.2         230         NLV25T           1.5         ±5%         30         7.96         182         1.3         220         NLV25T           1.8         ±5%         30         7.96         135         1.45         210         NLV25T           2.2         ±5%         30         7.96         135         1.45         210         NLV25T           2.7         ±5%         30         7.96         7.96         105	-R33J-PF
0.47         ±5%         30         25.2         350         0.68         350         NLV25T           0.56         ±5%         30         25.2         325         0.75         325         NLV25T           0.68         ±5%         30         25.2         300         0.85         300         NLV25T           0.82         ±5%         30         25.2         260         1         260         NLV25T           1         ±5%         30         7.96         245         1.1         245         NLV25T           1.2         ±5%         30         7.96         230         1.2         230         NLV25T           1.5         ±5%         30         7.96         182         1.3         220         NLV25T           1.8         ±5%         30         7.96         135         1.45         210         NLV25T           2.2         ±5%         30         7.96         105         1.55         200         NLV25T           2.7         ±5%         30         7.96         70         1.7         195         NLV25T           3.3         ±5%         30         7.96         55         1.9	R39J-PF
0.56         ±5%         30         25.2         325         0.75         325         NLV25T           0.68         ±5%         30         25.2         300         0.85         300         NLV25T           0.82         ±5%         30         25.2         260         1         260         NLV25T           1         ±5%         30         7.96         245         1.1         245         NLV25T           1.2         ±5%         30         7.96         230         1.2         230         NLV25T           1.5         ±5%         30         7.96         182         1.3         220         NLV25T           1.8         ±5%         30         7.96         135         1.45         210         NLV25T           2.2         ±5%         30         7.96         105         1.55         200         NLV25T           2.7         ±5%         30         7.96         70         1.7         195         NLV25T           3.3         ±5%         30         7.96         55         1.9         185         NLV25T           4.7         ±5%         30         7.96         48         2.1         <	
0.68         ±5%         30         25.2         300         0.85         300         NLV25T           0.82         ±5%         30         25.2         260         1         260         NLV25T           1         ±5%         30         7.96         245         1.1         245         NLV25T           1.2         ±5%         30         7.96         230         1.2         230         NLV25T           1.5         ±5%         30         7.96         182         1.3         220         NLV25T           1.8         ±5%         30         7.96         135         1.45         210         NLV25T           2.2         ±5%         30         7.96         105         1.55         200         NLV25T           2.7         ±5%         30         7.96         70         1.7         195         NLV25T           3.3         ±5%         30         7.96         55         1.9         185         NLV25T           3.9         ±5%         30         7.96         48         2.1         180         NLV25T           4.7         ±5%         30         7.96         43         2.3	-R56J-PF
0.82         ±5%         30         25.2         260         1         260         NLV25T           1         ±5%         30         7.96         245         1.1         245         NLV25T           1.2         ±5%         30         7.96         230         1.2         230         NLV25T           1.5         ±5%         30         7.96         182         1.3         220         NLV25T           1.8         ±5%         30         7.96         135         1.45         210         NLV25T           2.2         ±5%         30         7.96         105         1.55         200         NLV25T           2.7         ±5%         30         7.96         70         1.7         195         NLV25T           3.3         ±5%         30         7.96         55         1.9         185         NLV25T           3.9         ±5%         30         7.96         48         2.1         180         NLV25T           4.7         ±5%         30         7.96         43         2.3         175         NLV25T           5.6         ±5%         25         7.96         42         2.5         170	
1       ±5%       30       7.96       245       1.1       245       NLV25T         1.2       ±5%       30       7.96       230       1.2       230       NLV25T         1.5       ±5%       30       7.96       182       1.3       220       NLV25T         1.8       ±5%       30       7.96       135       1.45       210       NLV25T         2.2       ±5%       30       7.96       105       1.55       200       NLV25T         2.7       ±5%       30       7.96       70       1.7       195       NLV25T         3.3       ±5%       30       7.96       55       1.9       185       NLV25T         3.9       ±5%       30       7.96       48       2.1       180       NLV25T         4.7       ±5%       30       7.96       43       2.3       175       NLV25T         5.6       ±5%       25       7.96       42       2.5       170       NLV25T         6.8       ±5%       25       7.96       39       2.7       165       NLV25T         10       ±5%       25       7.96       36       3.05	-R82J-PF
1.2         ±5%         30         7.96         230         1.2         230         NLV25T           1.5         ±5%         30         7.96         182         1.3         220         NLV25T           1.8         ±5%         30         7.96         135         1.45         210         NLV25T           2.2         ±5%         30         7.96         105         1.55         200         NLV25T           2.7         ±5%         30         7.96         70         1.7         195         NLV25T           3.3         ±5%         30         7.96         55         1.9         185         NLV25T           3.9         ±5%         30         7.96         48         2.1         180         NLV25T           4.7         ±5%         30         7.96         43         2.3         175         NLV25T           5.6         ±5%         25         7.96         42         2.5         170         NLV25T           6.8         ±5%         25         7.96         39         2.7         165         NLV25T           8.2         ±5%         25         7.96         36         3.05         1	
1.5         ±5%         30         7.96         182         1.3         220         NLV25T           1.8         ±5%         30         7.96         135         1.45         210         NLV25T           2.2         ±5%         30         7.96         105         1.55         200         NLV25T           2.7         ±5%         30         7.96         70         1.7         195         NLV25T           3.3         ±5%         30         7.96         55         1.9         185         NLV25T           3.9         ±5%         30         7.96         48         2.1         180         NLV25T           4.7         ±5%         30         7.96         43         2.3         175         NLV25T           5.6         ±5%         25         7.96         42         2.5         170         NLV25T           6.8         ±5%         25         7.96         39         2.7         165         NLV25T           8.2         ±5%         25         7.96         36         3.05         160         NLV25T           10         ±5%         25         2.52         33         3.5         155	
1.8         ±5%         30         7.96         135         1.45         210         NLV25T           2.2         ±5%         30         7.96         105         1.55         200         NLV25T           2.7         ±5%         30         7.96         70         1.7         195         NLV25T           3.3         ±5%         30         7.96         55         1.9         185         NLV25T           3.9         ±5%         30         7.96         48         2.1         180         NLV25T           4.7         ±5%         30         7.96         43         2.3         175         NLV25T           5.6         ±5%         25         7.96         42         2.5         170         NLV25T           6.8         ±5%         25         7.96         39         2.7         165         NLV25T           8.2         ±5%         25         7.96         36         3.05         160         NLV25T           10         ±5%         25         2.52         33         3.5         155         NLV25T           12         ±5%         25         2.52         30         3.8         150 </td <td></td>	
2.2         ±5%         30         7.96         105         1.55         200         NLV25T           2.7         ±5%         30         7.96         70         1.7         195         NLV25T           3.3         ±5%         30         7.96         55         1.9         185         NLV25T           3.9         ±5%         30         7.96         48         2.1         180         NLV25T           4.7         ±5%         30         7.96         43         2.3         175         NLV25T           5.6         ±5%         25         7.96         42         2.5         170         NLV25T           6.8         ±5%         25         7.96         39         2.7         165         NLV25T           8.2         ±5%         25         7.96         36         3.05         160         NLV25T           10         ±5%         25         2.52         33         3.5         155         NLV25T           12         ±5%         25         2.52         30         3.8         150         NLV25T	
2.7         ±5%         30         7.96         70         1.7         195         NLV25T           3.3         ±5%         30         7.96         55         1.9         185         NLV25T           3.9         ±5%         30         7.96         48         2.1         180         NLV25T           4.7         ±5%         30         7.96         43         2.3         175         NLV25T           5.6         ±5%         25         7.96         42         2.5         170         NLV25T           6.8         ±5%         25         7.96         39         2.7         165         NLV25T           8.2         ±5%         25         7.96         36         3.05         160         NLV25T           10         ±5%         25         2.52         33         3.5         155         NLV25T           12         ±5%         25         2.52         30         3.8         150         NLV25T	-2R2J-PF
3.3         ±5%         30         7.96         55         1.9         185         NLV25T           3.9         ±5%         30         7.96         48         2.1         180         NLV25T           4.7         ±5%         30         7.96         43         2.3         175         NLV25T           5.6         ±5%         25         7.96         42         2.5         170         NLV25T           6.8         ±5%         25         7.96         39         2.7         165         NLV25T           8.2         ±5%         25         7.96         36         3.05         160         NLV25T           10         ±5%         25         2.52         33         3.5         155         NLV25T           12         ±5%         25         2.52         30         3.8         150         NLV25T	
3.9         ±5%         30         7.96         48         2.1         180         NLV25T           4.7         ±5%         30         7.96         43         2.3         175         NLV25T           5.6         ±5%         25         7.96         42         2.5         170         NLV25T           6.8         ±5%         25         7.96         39         2.7         165         NLV25T           8.2         ±5%         25         7.96         36         3.05         160         NLV25T           10         ±5%         25         2.52         33         3.5         155         NLV25T           12         ±5%         25         2.52         30         3.8         150         NLV25T	
4.7       ±5%       30       7.96       43       2.3       175       NLV25T         5.6       ±5%       25       7.96       42       2.5       170       NLV25T         6.8       ±5%       25       7.96       39       2.7       165       NLV25T         8.2       ±5%       25       7.96       36       3.05       160       NLV25T         10       ±5%       25       2.52       33       3.5       155       NLV25T         12       ±5%       25       2.52       30       3.8       150       NLV25T	
5.6     ±5%     25     7.96     42     2.5     170     NLV25T       6.8     ±5%     25     7.96     39     2.7     165     NLV25T       8.2     ±5%     25     7.96     36     3.05     160     NLV25T       10     ±5%     25     2.52     33     3.5     155     NLV25T       12     ±5%     25     2.52     30     3.8     150     NLV25T	
6.8     ±5%     25     7.96     39     2.7     165     NLV25T       8.2     ±5%     25     7.96     36     3.05     160     NLV25T       10     ±5%     25     2.52     33     3.5     155     NLV25T       12     ±5%     25     2.52     30     3.8     150     NLV25T	
8.2     ±5%     25     7.96     36     3.05     160     NLV25T       10     ±5%     25     2.52     33     3.5     155     NLV25T       12     ±5%     25     2.52     30     3.8     150     NLV25T	
10     ±5%     25     2.52     33     3.5     155     NLV25T       12     ±5%     25     2.52     30     3.8     150     NLV25T	
12 ±5% 25 2.52 30 3.8 150 NLV25T	
15 ±5% 25 2.52 26 4.4 140 NLV25T	-150J-PF
	-180J-PF
	-1603-FF -220J-PF
	-220J-FF -270J-PF
	-2703-PF -330J-PF
	-330J-PF -390J-PF

<sup>\*</sup> Rated current: Value obtained when current flows and the temperature has risen to 20°C or when DC current flows and the initial value of inductance has fallen by 10%, whichever is smaller.

YHP4194A IMPEDANCE ANALYZER (16085A+16093B+TDK TF-1) [L  $\geqq$  0.12 $\mu$ H]

SRF:HP8753C NETWORK ANALYZER

Rdc:MATSUSHITA VP-2941A DIGITAL MILLIOHM METER

<sup>•</sup> Test equipment  $\,$  L, Q: YHP4191A IMPEDANCE ANALYZER (16092A) [L  $\leq$ 0.1 $\mu$ H]

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



### **ELECTRICAL CHARACTERISTICS**

Inductance	Inductance	Q	Test frequency L,Q	Self-resonant frequency	DC resistance	Rated current*	Part No.
(µH)	tolerance	typ.	(MHz)	(MHz)min.	$(\Omega)$ max.	(mA)max.	Fait No.
47	±5%	20	2.52	17	11.1	80	NLV25T-470J-PF
56	±5%	20	2.52	16	12.1	75	NLV25T-560J-PF
68	±5%	20	2.52	15	16.6	70	NLV25T-680J-PF
82	±5%	20	2.52	13	19	66	NLV25T-820J-PF
100	±5%	15	0.796	12	21	60	NLV25T-101J-PF

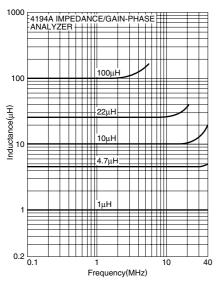
<sup>\*</sup> Rated current: Value obtained when current flows and the temperature has risen to 20°C or when DC current flows and the initial value of inductance has fallen by 10%, whichever is smaller.

• Test equipment L, Q: HP4194A IMPEDANCE/GAIN PHASE ANALYZER(16085A+16093B+TDK TF-1)

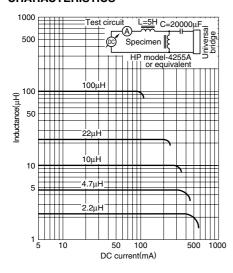
SRF: HP8753C NETWORK ANALYZER

Rdc: MATSUSHITA VP-2941A DIGITAL MILLIOHM METER

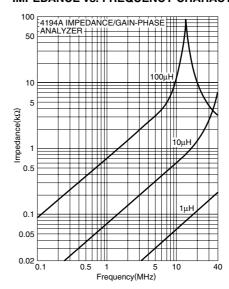
# TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE vs. FREQUENCY CHARACTERISTICS



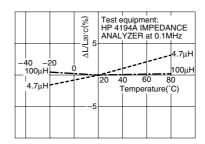
# INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



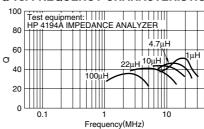
## **IMPEDANCE vs. FREQUENCY CHARACTERISTICS**



# INDUCTANCE CHANGE vs. TEMPERATURE CHARACTERISTICS



# Q vs. FREQUENCY CHARACTERISTICS



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