

SMD Inductors(Coils) For Signal Line(Wound)

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

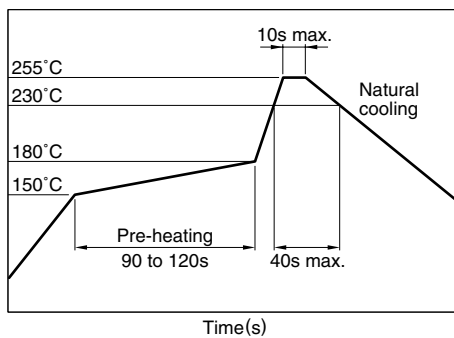
Power supply lines, audio visual systems, IT equipment

SPECIFICATIONS

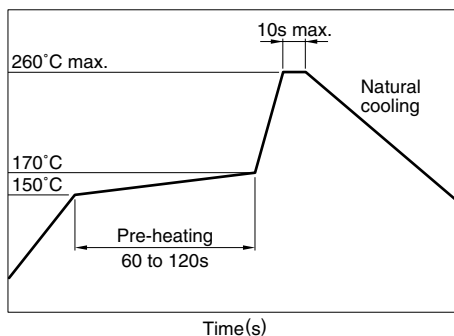
| | |
|-----------------------------|--|
| Operating temperature range | -40 to +105°C [Including self-temperature rise] |
| Storage temperature range | -40 to +105°C |

RECOMMENDED SOLDERING CONDITIONS

REFLOW SOLDERING



FLOW SOLDERING



IRON SOLDERING

| | |
|------------------------------|-------------------------------|
| Tip temperature | 300 to 350°C |
| Heating time | 3 seconds/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% |
|---|-----|

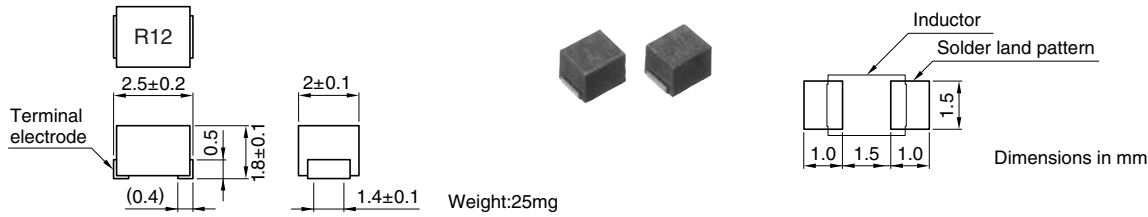
(6) Lead-free compatible product

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

• 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.

• All specifications are subject to change without notice.

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



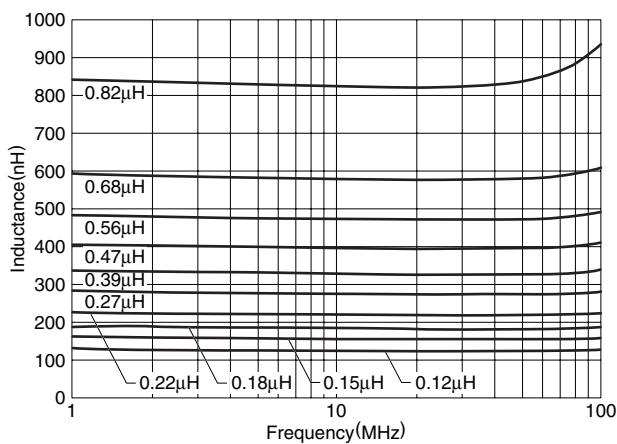
ELECTRICAL CHARACTERISTICS

| 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

