

# Winding Type Chip Inductor

SNLU252018QV-SERIES

## 1. Features

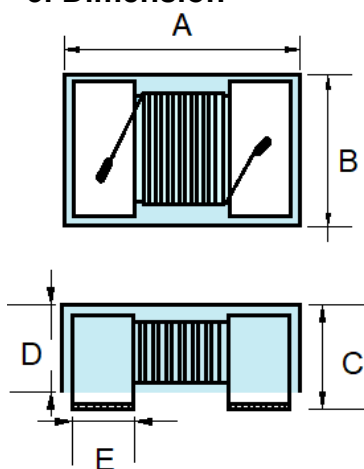
1. Ferrite core wire wound construction.
2. High Reliability due to wire wound type construction.
3. Small footprint as well as low profile.
4. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
5. High reliability -Reliability tests comply with AEC-Q200
6. Operating temperature-40~+125°C (Including self - temperature rise)



## 2. Application

- a. Vehicle accessories (car navigation systems, car audio, ETC, other).
- b. Smart meters, AV equipment, xDSL, electronic devices for communications infrastructure such as mobile base stations, industrial equipment, other

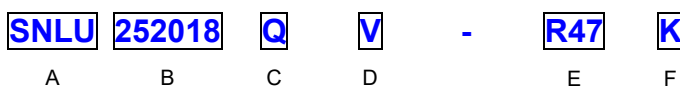
## 3. Dimension



| Size       | A         | B         | C         | D         | E       |
|------------|-----------|-----------|-----------|-----------|---------|
| SNLU252018 | 2.50±0.30 | 2.00±0.30 | 1.80±0.10 | 1.50±0.10 | 0.45ref |

Unit:mm

## 4. Part Numbering



- A: Series  
 B: Dimension L x WxH  
 C: Application For Signal Use  
 D: Category Code V=Vehicle  
 E: Inductance 1R0=1.0uH  
 F: Inductance Tolerance J=±5%, K=±10%

## 5. Specification

| TAI-TECH Part Number | Ls(uH) | Tolerance | Q ref. | L / Q Frequency | SRF(MHz) ref | DCR(Ω) Max | IDC(A) Max |
|----------------------|--------|-----------|--------|-----------------|--------------|------------|------------|
| SNLU252018QV-10N□    | 0.010  | J,K       | 15     | 100M            | 2150         | 0.26       | 0.530      |
| SNLU252018QV-12N□    | 0.012  | J,K       | 15     | 100M            | 2050         | 0.27       | 0.500      |
| SNLU252018QV-15N□    | 0.015  | J,K       | 15     | 100M            | 2000         | 0.29       | 0.480      |
| SNLU252018QV-18N□    | 0.018  | J,K       | 15     | 100M            | 1850         | 0.31       | 0.450      |
| SNLU252018QV-22N□    | 0.022  | J,K       | 15     | 100M            | 1650         | 0.37       | 0.420      |

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|-------------------------|--------|-----------|-----------|--------------------|-----------------|------------------------|---------------|
| SNLU252018QV-27N□       | 0.027  | J,K       | 15        | 100M               | 1550            | 0.40                   | 0.410         |
| SNLU252018QV-33N□       | 0.033  | J,K       | 20        | 100M               | 1450            | 0.42                   | 0.400         |
| SNLU252018QV-39N□       | 0.039  | J,K       | 20        | 100M               | 1350            | 0.45                   | 0.380         |
| SNLU252018QV-47N□       | 0.047  | J,K       | 20        | 100M               | 1200            | 0.50                   | 0.360         |
| SNLU252018QV-56N□       | 0.056  | J,K       | 20        | 100M               | 1100            | 0.60                   | 0.340         |
| SNLU252018QV-68N□       | 0.068  | J,K       | 20        | 100M               | 1050            | 0.65                   | 0.320         |
| SNLU252018QV-82N□       | 0.082  | J,K       | 20        | 100M               | 900             | 0.75                   | 0.300         |
| SNLU252018QV-R10□       | 0.10   | J,K       | 20        | 100M               | 800             | 0.80                   | 0.280         |
| SNLU252018QV-R12□       | 0.12   | J,K       | 30        | 25.2M              | 700             | 0.30                   | 0.550         |
| SNLU252018QV-R22□       | 0.22   | J,K       | 30        | 25.2M              | 450             | 0.50                   | 0.450         |
| SNLU252018QV-R27□       | 0.27   | J,K       | 30        | 25.2M              | 425             | 0.55                   | 0.425         |
| SNLU252018QV-R33□       | 0.33   | J,K       | 30        | 25.2M              | 400             | 0.60                   | 0.400         |
| SNLU252018QV-R47□       | 0.47   | J,K       | 30        | 25.2M              | 350             | 0.68                   | 0.400         |
| SNLU252018QV-R56□       | 0.56   | J,K       | 30        | 25.2M              | 325             | 0.75                   | 0.400         |
| SNLU252018QV-R82□       | 0.82   | J,K       | 30        | 25.2M              | 260             | 1.00                   | 0.300         |
| SNLU252018QV-1R0□       | 1.00   | J,K       | 30        | 7.96M              | 245             | 1.10                   | 0.245         |
| SNLU252018QV-1R2□       | 1.20   | J,K       | 30        | 7.96M              | 230             | 1.20                   | 0.230         |
| SNLU252018QV-2R2□       | 2.20   | J,K       | 30        | 7.96M              | 105             | 1.55                   | 0.200         |
| SNLU252018QV-3R3□       | 3.30   | J,K       | 30        | 7.96M              | 55              | 1.90                   | 0.185         |
| SNLU252018QV-4R7□       | 4.70   | J,K       | 30        | 7.96M              | 43              | 2.30                   | 0.175         |
| SNLU252018QV-5R6□       | 5.60   | J,K       | 25        | 7.96M              | 42              | 2.50                   | 0.170         |
| SNLU252018QV-6R8□       | 6.80   | J,K       | 25        | 7.96M              | 39              | 2.70                   | 0.165         |
| SNLU252018QV-8R2□       | 8.20   | J,K       | 25        | 7.96M              | 36              | 3.05                   | 0.160         |
| SNLU252018QV-100□       | 10.0   | J,K       | 25        | 2.52M              | 33              | 3.50                   | 0.155         |
| SNLU252018QV-150□       | 15.0   | J,K       | 25        | 2.52M              | 26              | 4.80                   | 0.140         |
| SNLU252018QV-220□       | 22.0   | J,K       | 25        | 2.52M              | 22              | 5.50                   | 0.125         |
| SNLU252018QV-270□       | 27.0   | J,K       | 25        | 2.52M              | 21              | 6.30                   | 0.115         |
| SNLU252018QV-330□       | 33.0   | J,K       | 25        | 2.52M              | 20              | 7.10                   | 0.110         |
| SNLU252018QV-470□       | 47.0   | J,K       | 20        | 2.52M              | 17              | 11.10                  | 0.080         |
| SNLU252018QV-560□       | 56.0   | J,K       | 20        | 2.52M              | 16              | 12.10                  | 0.075         |
| SNLU252018QV-680□       | 68.0   | J,K       | 20        | 2.52M              | 15              | 16.60                  | 0.070         |
| SNLU252018QV-820□       | 82.0   | J,K       | 20        | 2.52M              | 13              | 19.00                  | 0.066         |
| SNLU252018QV-101□       | 100    | J,K       | 15        | 0.796M             | 12              | 21.00                  | 0.060         |