

## 1. Part No. Expression:

W I 3 2 2 5 2 2 - 2 R 2 K F

(a) (b) (c) (d)(e)

a) Series Code

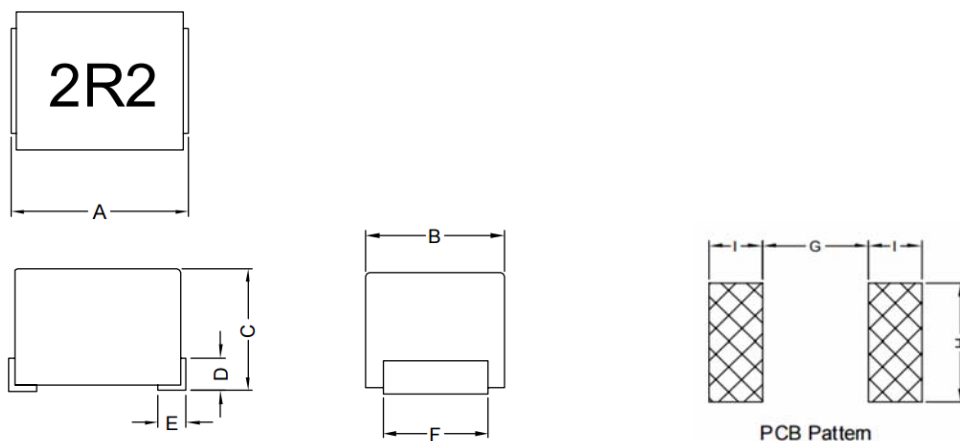
b) Dimension Code

c) Inductance Code

d) Tolerance Code

e) F: RoHS Compliant

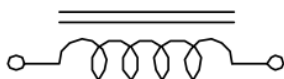
## 2. Configuration & Dimensions :



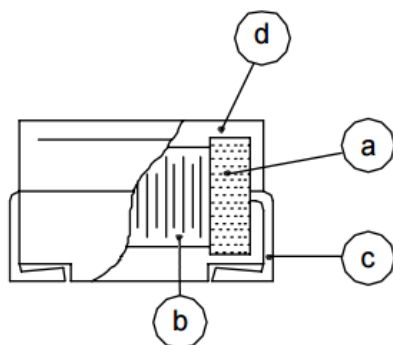
Unit: mm

| A       | B       | C       | D        | E        | F       | G        | H        | I        |
|---------|---------|---------|----------|----------|---------|----------|----------|----------|
| 3.2±0.3 | 2.5±0.2 | 2.2±0.2 | 0.6 Ref. | 0.2 Min. | 1.9±0.1 | 2.0 Ref. | 2.0 Ref. | 1.2 Ref. |

## 3. Schematic



## 4. Material List



(a) Core

(b) Wire

(c) Terminal

(d) Capsulate

NOTE: Specifications subject to change without notice. Please check our website for latest information.

**5. General Specification:**

- a) Operating Temp. : -40°C ~ +125°C
- b) Storage Temp. : -40°C ~ +125°C
- c) Rated Current will cause the inductance drop within 10%

**6. Electrical Characteristics**

| Part No        | Inductance<br>(uH) | Tolerance | Q Min. | Test Frequency<br>(MHz) | SRF<br>(MHz) Min. | DCR (Ω)<br>Max. | IDC<br>(mA)<br>Max. |
|----------------|--------------------|-----------|--------|-------------------------|-------------------|-----------------|---------------------|
| WI322522-010□F | 0.010              | M         | 15     | 100                     | 2500              | 0.13            | 450                 |
| WI322522-012□F | 0.012              | M         | 17     | 100                     | 2300              | 0.14            | 450                 |
| WI322522-015□F | 0.015              | M         | 19     | 100                     | 2100              | 0.16            | 450                 |
| WI322522-018□F | 0.018              | M         | 21     | 100                     | 1900              | 0.18            | 450                 |
| WI322522-022□F | 0.022              | M         | 23     | 100                     | 1700              | 0.20            | 450                 |
| WI322522-027□F | 0.027              | M         | 23     | 100                     | 1500              | 0.22            | 450                 |
| WI322522-033□F | 0.033              | M         | 25     | 100                     | 1400              | 0.24            | 450                 |
| WI322522-039□F | 0.039              | M         | 25     | 100                     | 1300              | 0.27            | 450                 |
| WI322522-047□F | 0.047              | M         | 26     | 100                     | 1200              | 0.30            | 450                 |
| WI322522-056□F | 0.056              | M         | 26     | 100                     | 1100              | 0.33            | 450                 |
| WI322522-068□F | 0.068              | M         | 27     | 100                     | 1000              | 0.36            | 450                 |
| WI322522-082□F | 0.082              | M         | 27     | 100                     | 900               | 0.40            | 450                 |
| WI322522-R10□F | 0.10               | K         | 28     | 100                     | 700               | 0.44            | 450                 |
| WI322522-R12□F | 0.12               | K,M       | 30     | 25.2                    | 500               | 0.22            | 450                 |
| WI322522-R15□F | 0.15               | K,M       | 30     | 25.2                    | 450               | 0.25            | 450                 |
| WI322522-R18□F | 0.18               | K,M       | 30     | 25.2                    | 400               | 0.28            | 450                 |
| WI322522-R22□F | 0.22               | J,M       | 30     | 25.2                    | 350               | 0.32            | 450                 |
| WI322522-R27□F | 0.27               | K,M       | 30     | 25.2                    | 320               | 0.36            | 450                 |
| WI322522-R33□F | 0.33               | K,M       | 30     | 25.2                    | 300               | 0.40            | 450                 |
| WI322522-R39□F | 0.39               | K,M       | 30     | 25.2                    | 250               | 0.45            | 450                 |
| WI322522-R47□F | 0.47               | K,M       | 30     | 25.2                    | 220               | 0.50            | 450                 |
| WI322522-R56□F | 0.56               | K,M       | 30     | 25.2                    | 180               | 0.55            | 450                 |
| WI322522-R68□F | 0.68               | K,M       | 30     | 25.2                    | 160               | 0.60            | 450                 |
| WI322522-R82□F | 0.82               | K,M       | 30     | 25.2                    | 140               | 0.65            | 450                 |
| WI322522-1R0□F | 1.00               | J,K       | 30     | 7.96                    | 120               | 0.70            | 400                 |

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| Part No        | Inductance<br>(uH) | Tolerance | Q Min. | Test Frequency<br>(MHz) | SRF<br>(MHz) Min. | DCR ( $\Omega$ )<br>Max. | IDC<br>(mA)<br>Max. |
|----------------|--------------------|-----------|--------|-------------------------|-------------------|--------------------------|---------------------|
| WI322522-1R2□F | 1.20               | J,K       | 30     | 7.96                    | 100               | 0.75                     | 390                 |
| WI322522-1R5□F | 1.50               | J,K       | 30     | 7.96                    | 85                | 0.85                     | 370                 |
| WI322522-1R8□F | 1.80               | J,K       | 30     | 7.96                    | 80                | 0.90                     | 350                 |
| WI322522-2R2□F | 2.20               | J,K       | 30     | 7.96                    | 75                | 1.0                      | 320                 |
| WI322522-2R7□F | 2.70               | J,K       | 30     | 7.96                    | 70                | 1.1                      | 290                 |
| WI322522-3R3□F | 3.30               | J,K       | 30     | 7.96                    | 60                | 1.2                      | 260                 |
| WI322522-3R9□F | 3.90               | J,K       | 30     | 7.96                    | 55                | 1.3                      | 250                 |
| WI322522-4R7□F | 4.70               | J,K       | 30     | 7.96                    | 50                | 1.5                      | 220                 |
| WI322522-5R6□F | 5.60               | J,K       | 30     | 7.96                    | 45                | 1.6                      | 200                 |
| WI322522-6R8□F | 6.80               | J,K       | 30     | 7.96                    | 40                | 1.8                      | 180                 |
| WI322522-8R2□F | 8.20               | J,K       | 30     | 7.96                    | 35                | 2.0                      | 170                 |
| WI322522-100□F | 10.0               | J,K       | 30     | 2.52                    | 30                | 2.1                      | 150                 |
| WI322522-120□F | 12.0               | J,K       | 30     | 2.52                    | 20                | 2.5                      | 140                 |
| WI322522-150□F | 15.0               | J,K       | 30     | 2.52                    | 20                | 2.8                      | 130                 |
| WI322522-180□F | 18.0               | J,K       | 30     | 2.52                    | 20                | 3.3                      | 120                 |
| WI322522-220□F | 22.0               | J,K       | 30     | 2.52                    | 20                | 3.7                      | 110                 |
| WI322522-270□F | 27.0               | J,K       | 30     | 2.52                    | 18                | 5.0                      | 80                  |
| WI322522-330□F | 33.0               | J,K       | 30     | 2.52                    | 17                | 5.6                      | 70                  |
| WI322522-390□F | 39.0               | J,K       | 30     | 2.52                    | 16                | 6.4                      | 65                  |
| WI322522-470□F | 47.0               | J,K       | 30     | 2.52                    | 15                | 7.0                      | 60                  |
| WI322522-560□F | 56.0               | J,K       | 30     | 2.52                    | 13                | 8.0                      | 55                  |
| WI322522-680□F | 68.0               | J,K       | 30     | 2.52                    | 12                | 9.0                      | 50                  |
| WI322522-820□F | 82.0               | J,K       | 30     | 2.52                    | 11                | 10.0                     | 45                  |
| WI322522-101□F | 100                | J,K       | 20     | 0.796                   | 10                | 10.0                     | 40                  |
| WI322522-121□F | 120                | J,K       | 20     | 0.796                   | 9                 | 11.0                     | 70                  |
| WI322522-151□F | 150                | J,K       | 20     | 0.796                   | 7                 | 15.0                     | 65                  |
| WI322522-181□F | 180                | J,K       | 20     | 0.796                   | 7                 | 17.0                     | 60                  |
| WI322522-221□F | 220                | J,K       | 20     | 0.796                   | 6                 | 21.0                     | 50                  |
| WI322522-271□F | 270                | J,K       | 20     | 0.796                   | 5                 | 28.0                     | 45                  |
| WI322522-331□F | 330                | J,K       | 20     | 0.796                   | 5                 | 34.0                     | 40                  |

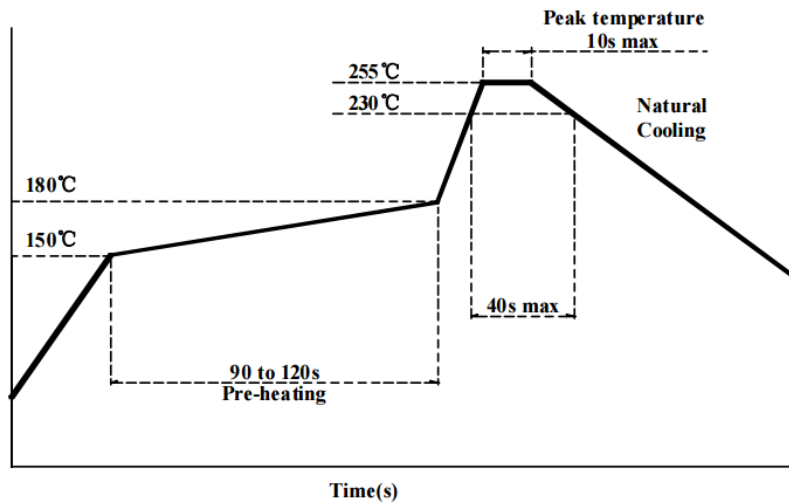
Tolerance: J =  $\pm 5\%$ K =  $\pm 10\%$ M =  $\pm 20\%$ 

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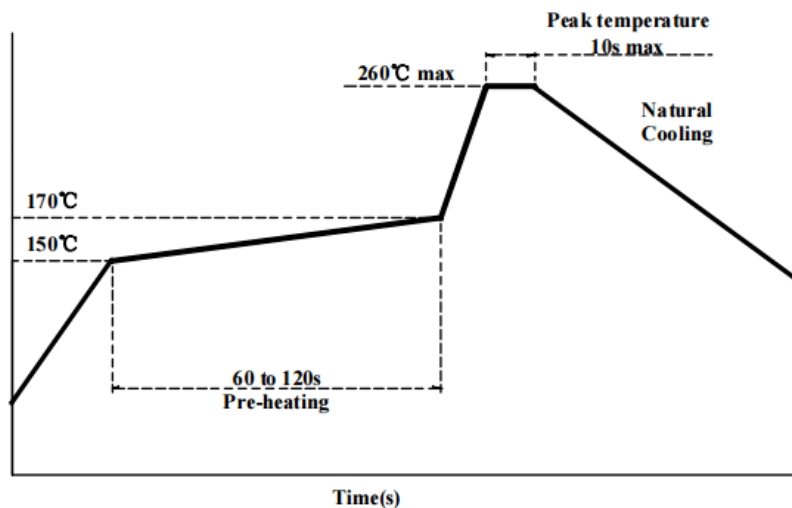


## 7. Soldering

### 7-1 Reflow Soldering



### 7-2 Flow Soldering



### 7-3 Iron Soldering

Base on the following conditions, use a maximum product temperature of 260°C and a maximum accumulated heating time of 10seconds as a guideline.

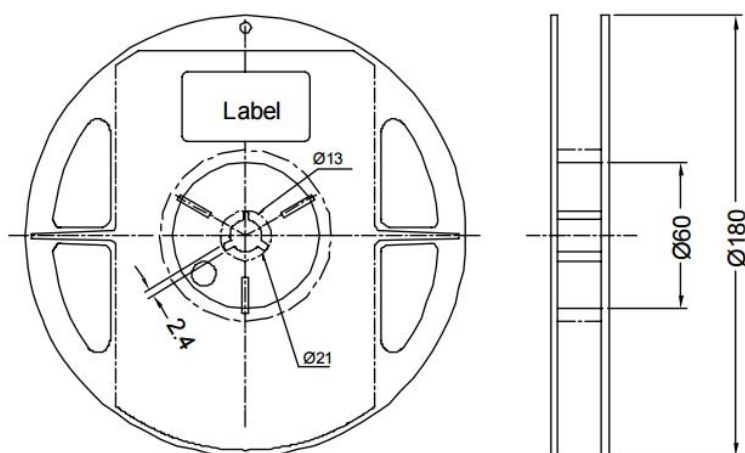
|                             |                                |
|-----------------------------|--------------------------------|
| Tip Temperature             | 300°C ~ 350°C                  |
| Heating Time                | 3 Sec / soldering              |
| Soldering Rod Specification | Output: 30W Tip, Diameter: 1mm |

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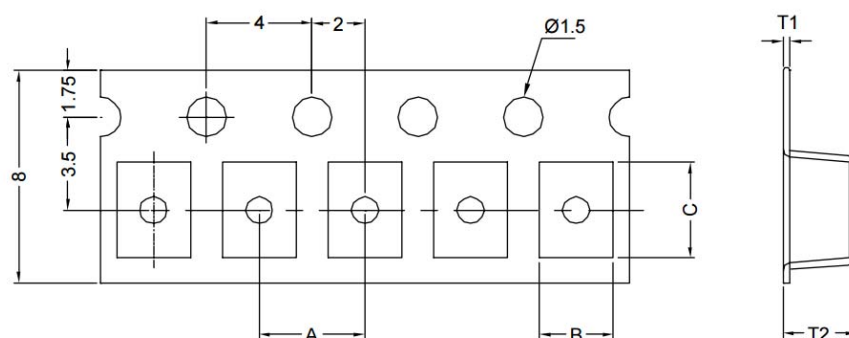


## 8. Packaging Information

### 8-1 Reel Dimension



### 8-2 Tape Dimension



| A(mm) | B(mm) | C(mm) | T1(mm) | T2(mm) |
|-------|-------|-------|--------|--------|
| 4.0   | 2.8   | 3.5   | 0.3    | 2.45   |

### 8-3 Packaging Quantity

|                        |           |
|------------------------|-----------|
| Series                 | WI322522  |
| Reel (ø180*11mm)       | 2,000pcs  |
| Box (185*90*190mm)     | 10,000pcs |
| Carton (480*195*200mm) | 50,000pcs |

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