

# Winding Type Chip Inductor

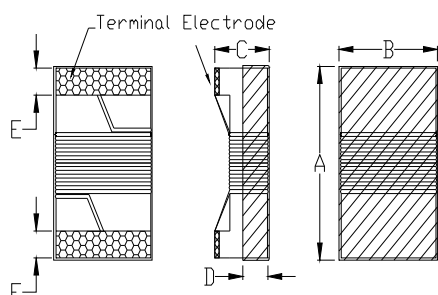
SWF1608LF-SERIES

## 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. Application for Signal Use.
5. 100% Lead (Pb) & Halogen-Free and RoHS compliant.
6. Operating temperature-40~+125°C (Including self - temperature rise)



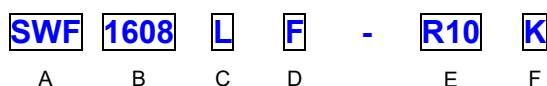
## 2. Dimensions



| Size    | A         | B         | C         | D         | E        |
|---------|-----------|-----------|-----------|-----------|----------|
| SWF1608 | 1.65±0.15 | 1.15±0.15 | 1.05±0.15 | 0.38 ref. | 0.35±0.1 |

Unit:mm

## 3. Part Numbering



A: Series

B: Dimension

C: Application

D: Lead free type

E: Inductance

F: Inductance Tolerance

L x W

For Signal Use

R10=0.1uH

J=±5%,K=±10%

## 4. Specification

| TAI-TECH Part Number | Inductance (uH) | Tolerance | Test Frequency (Hz) | Q Typ | Test Frequency (MHz) | SRF (MHz) typ. | DCR (Ω) max. | IDC (mA) max. |
|----------------------|-----------------|-----------|---------------------|-------|----------------------|----------------|--------------|---------------|
| SWF1608LF-47N□       | 0.047           | K         | 0.5V/7.9M           | 17    | 7.9                  | 1700           | 0.075        | 1500          |
| SWF1608LF-72N□       | 0.072           | K         | 0.5V/7.9M           | 17    | 7.9                  | 1700           | 0.12         | 1500          |
| SWF1608LF-R10□       | 0.1             | K         | 0.5V/7.9M           | 17    | 7.9                  | 1500           | 0.12         | 1500          |
| SWF1608LF-R15□       | 0.15            | K         | 0.5V/7.9M           | 17    | 7.9                  | 1350           | 0.15         | 1450          |
| SWF1608LF-R18□       | 0.18            | K         | 0.5V/7.9M           | 17    | 7.9                  | 1150           | 0.15         | 1400          |
| SWF1608LF-R33□       | 0.33            | K         | 0.5V/7.9M           | 17    | 7.9                  | 850            | 0.46         | 900           |
| SWF1608LF-R39□       | 0.39            | K         | 0.5V/7.9M           | 17    | 7.9                  | 810            | 0.51         | 1100          |
| SWF1608LF-R47□       | 0.47            | K         | 0.5V/7.9M           | 17    | 7.9                  | 720            | 0.62         | 1050          |
| SWF1608LF-R56□       | 0.56            | K         | 0.5V/7.9M           | 17    | 7.9                  | 600            | 0.44         | 850           |
| SWF1608LF-R68□       | 0.68            | K         | 0.5V/7.9M           | 17    | 7.9                  | 600            | 0.52         | 850           |
| SWF1608LF-R82□       | 0.82            | K         | 0.5V/7.9M           | 17    | 7.9                  | 480            | 0.69         | 750           |
| SWF1608LF-R91□       | 0.91            | K         | 0.5V/7.9M           | 17    | 7.9                  | 330            | 0.76         | 670           |
| SWF1608LF-1R0□       | 1.00            | K         | 0.5V/7.9M           | 17    | 7.9                  | 310            | 0.81         | 600           |

| TAI-TECH Part Number | Inductance (uH) | Tolerance | Test Frequency (Hz) | Q Typ | Test Frequency (MHz) | SRF (MHz) typ. | DCR ( $\Omega$ ) max. | IDC (mA) max. |
|----------------------|-----------------|-----------|---------------------|-------|----------------------|----------------|-----------------------|---------------|
| SWF1608LF-1R2□       | 1.2             | K         | 0.5V/7.9M           | 17    | 7.9                  | 270            | 0.87                  | 550           |
| SWF1608LF-1R5□       | 1.5             | K         | 0.5V/7.9M           | 17    | 7.9                  | 270            | 1.06                  | 540           |
| SWF1608LF-1R8□       | 1.8             | K         | 0.5V/7.9M           | 17    | 7.9                  | 230            | 1.1                   | 520           |
| SWF1608LF-2R2□       | 2.2             | K         | 0.5V/7.9M           | 17    | 7.9                  | 130            | 1.2                   | 500           |
| SWF1608LF-2R7□       | 2.7             | K         | 0.5V/7.9M           | 17    | 7.9                  | 105            | 1.5                   | 480           |
| SWF1608LF-3R3□       | 3.3             | K         | 0.5V/7.9M           | 17    | 7.9                  | 84             | 1.5                   | 440           |
| SWF1608LF-3R9□       | 3.9             | K         | 0.5V/7.9M           | 17    | 7.9                  | 80             | 1.6                   | 430           |
| SWF1608LF-4R7□       | 4.7             | J,K       | 0.5V/7.9M           | 18    | 7.9                  | 69             | 2.1                   | 420           |
| SWF1608LF-5R6□       | 5.6             | J,K       | 0.5V/7.9M           | 18    | 7.9                  | 65             | 2.6                   | 350           |
| SWF1608LF-6R8□       | 6.8             | J,K       | 0.5V/7.9M           | 19    | 7.9                  | 55             | 3.1                   | 330           |
| SWF1608LF-7R8□       | 7.8             | J,K       | 0.5V/7.9M           | 17    | 7.9                  | 47             | 3.5                   | 320           |
| SWF1608LF-8R2□       | 8.2             | J,K       | 0.5V/7.9M           | 17    | 7.9                  | 42             | 3.8                   | 300           |
| SWF1608LF-100□       | 10              | J,K       | 0.5V/7.9M           | 19    | 7.9                  | 40             | 4.8                   | 270           |

