

Chip Inductor AWCS Series

**Automotive
AEC-Q200**

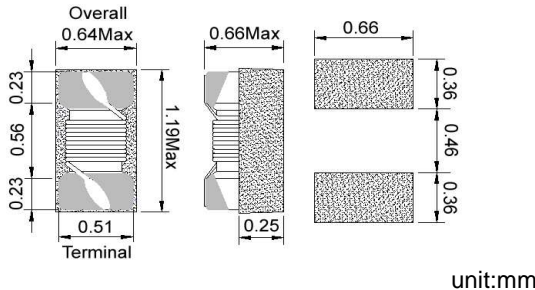
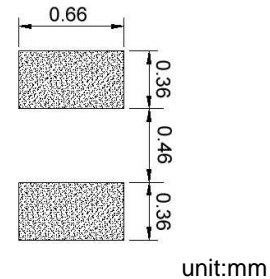
RoHS Compliant
Halogen Free
REACH Compliant



- RF
Circuit
- Unshield
- Wire
Wound
- Ceramic
- High
Q

Part Numbering

| A | WCS | 00 | 161008 | 1R0 | K | 00 |
|-------|-------------|--------------|-------------------------|--------------------|-----------|---------------|
| Grade | Series Name | Control Code | Dimensions Code (mm) | Inductance (nH) | Tolerance | Internal Code |
| | | | 120707 1.19x0.7x0.66 | 3N0 3 | G ±2% | |
| | | | 161008 1.6x1.02x0.82 | 10N 10 | H ±3% | |
| | | | 231715 2.35x1.73x1.52 | R10 100 | J ±5% | |
| | | | 292821 2.92x2.79x2.1 | 1R0 1000 | K ±10% | |
| | | | 372822 3.7x2.8x2.2 | | | |

AWCS00120707 Type
■ Dimensions

■ Recommended Land Pattern

■ Electrical Characteristics

| Part No. | Inductance (nH) | L/Q Test | | Q Min. | SRF (MHz)Min. | RDC (Ω)Max. | I _{rms} (mA)Max. | Tolerance |
|--------------------|-----------------|-------------|--|--------|---------------|-------------|---------------------------|-------------|
| | | Freq. (MHz) | | | | | | |
| AWCS001207071N0□00 | 1 | 250/250 | | 16 | 12700 | 0.045 | 1360 | 10,5,±0.1nH |
| AWCS001207071N2□00 | 1.2 | 250/250 | | 10 | 10400 | 0.14 | 640 | 10,5,±0.1nH |
| AWCS001207071N3□00 | 1.3 | 250/250 | | 10 | 10400 | 0.14 | 640 | 10,±0.1nH |
| AWCS001207071N9□00 | 1.9 | 250/250 | | 16 | 11300 | 0.07 | 1040 | 10,5,±0.1nH |
| AWCS001207072N0□00 | 2 | 250/250 | | 16 | 11100 | 0.07 | 1040 | 10,5,±0.1nH |
| AWCS001207072N2□00 | 2.2 | 250/250 | | 19 | 10800 | 0.07 | 960 | 10,5,±0.1nH |
| AWCS001207072N4□00 | 2.4 | 250/250 | | 15 | 10500 | 0.068 | 790 | 10,5,±0.1nH |
| AWCS001207072N5□00 | 2.5 | 250/250 | | 13 | 10400 | 0.15 | 640 | 10,5,±0.1nH |
| AWCS001207072N7□00 | 2.7 | 250/250 | | 16 | 10400 | 0.12 | 640 | 10,5,±0.1nH |
| AWCS001207073N3□00 | 3.3 | 250/250 | | 19 | 7000 | 0.066 | 840 | 10,5,3 |
| AWCS001207073N6□00 | 3.6 | 250/250 | | 19 | 6800 | 0.066 | 840 | 10,5,3 |
| AWCS001207073N9□00 | 3.9 | 250/250 | | 19 | 6000 | 0.066 | 840 | 10,5,3 |
| AWCS001207074N3□00 | 4.3 | 250/250 | | 18 | 6000 | 0.091 | 700 | 10,5,3 |
| AWCS001207074N7□00 | 4.7 | 250/250 | | 15 | 4770 | 0.13 | 640 | 10,5,3 |
| AWCS001207075N1□00 | 5.1 | 250/250 | | 20 | 4800 | 0.083 | 800 | 10,5,3 |
| AWCS001207075N6□00 | 5.6 | 250/250 | | 20 | 4800 | 0.083 | 760 | 10,5,3 |
| AWCS001207075N8□00 | 5.8 | 250/250 | | 20 | 4800 | 0.083 | 760 | 10,5,3 |
| AWCS001207076N2□00 | 6.2 | 250/250 | | 20 | 4800 | 0.083 | 760 | 10,5,3 |
| AWCS001207076N8□00 | 6.8 | 250/250 | | 20 | 4800 | 0.083 | 680 | 10,5,3 |
| AWCS001207077N3□00 | 7.3 | 250/250 | | 20 | 4800 | 0.12 | 680 | 10,5,3 |
| AWCS001207077N5□00 | 7.5 | 250/250 | | 22 | 4800 | 0.1 | 680 | 10,5,3 |
| AWCS001207078N2□00 | 8.2 | 250/250 | | 22 | 4400 | 0.1 | 680 | 10,5,3 |
| AWCS001207078N7□00 | 8.7 | 250/250 | | 18 | 4100 | 0.2 | 480 | 10,5,3 |
| AWCS001207079N0□00 | 9 | 250/250 | | 22 | 4160 | 0.1 | 680 | 10,5,3 |
| AWCS001207079N1□00 | 9.1 | 250/250 | | 22 | 4160 | 0.1 | 680 | 10,5,3 |
| AWCS001207079N5□00 | 9.5 | 250/250 | | 18 | 4000 | 0.2 | 480 | 10,5,3 |
| AWCS0012070710N□00 | 10 | 250/250 | | 21 | 3900 | 0.2 | 480 | 10,5,3,2 |
| AWCS0012070711N□00 | 11 | 250/250 | | 24 | 3680 | 0.12 | 640 | 10,5,3,2 |
| AWCS0012070712N□00 | 12 | 250/250 | | 24 | 3600 | 0.12 | 640 | 10,5,3,2 |
| AWCS0012070713N□00 | 13 | 250/250 | | 24 | 3450 | 0.21 | 440 | 10,5,3,2 |
| AWCS0012070715N□00 | 15 | 250/250 | | 24 | 3280 | 0.17 | 560 | 10,5,3,2 |
| AWCS0012070716N□00 | 16 | 250/250 | | 24 | 3100 | 0.22 | 560 | 10,5,3,2 |

Note: When ordering, please specify tolerance code. Tolerance: B=±0.1 / G=±2% / H=±3% / J=±5% / K=±10%

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)

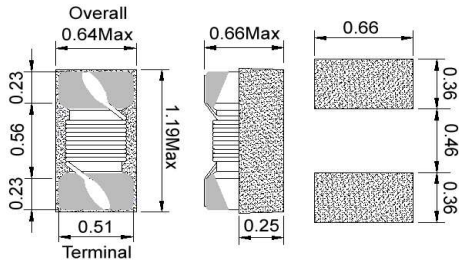
2. I_{rms} for a 15°C temperature rise from 25°C ambient.

3. Measure Equipment:

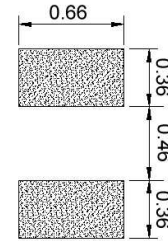
L & Q: Agilent E4991A+Agilent HP16197A

SRF: Agilent HP8753D/Agilent E4991A

RDC: HP4287A

AWCS00120707 Type
Dimensions


unit:mm

Recommended Land Pattern


unit:mm

Electrical Characteristics

| Part No. | Inductance (nH) | L/Q Test | | Q Min. | SRF (MHz)Min. | RDC (Ω)Max. | I _{rms} (mA)Max. | Tolerance |
|--------------------|-----------------|-------------|--|--------|---------------|-------------|---------------------------|-----------|
| | | Freq. (MHz) | | | | | | |
| AWCS0012070718N□00 | 18 | 250/250 | | 25 | 3100 | 0.23 | 420 | 10,5,3,2 |
| AWCS0012070719N□00 | 19 | 250/250 | | 24 | 3040 | 0.2 | 480 | 10,5,3,2 |
| AWCS0012070720N□00 | 20 | 250/250 | | 25 | 3000 | 0.25 | 420 | 10,5,3,2 |
| AWCS0012070722N□00 | 22 | 250/250 | | 25 | 2800 | 0.3 | 400 | 10,5,3,2 |
| AWCS0012070723N□00 | 23 | 250/250 | | 22 | 2720 | 0.3 | 400 | 10,5,3,2 |
| AWCS0012070724N□00 | 24 | 250/250 | | 25 | 2700 | 0.3 | 400 | 10,5,3,2 |
| AWCS0012070727N□00 | 27 | 250/250 | | 24 | 2480 | 0.3 | 400 | 10,5,3,2 |
| AWCS0012070730N□00 | 30 | 250/250 | | 25 | 2350 | 0.35 | 400 | 10,5,3,2 |
| AWCS0012070733N□00 | 33 | 250/250 | | 24 | 2350 | 0.4 | 400 | 10,5,3,2 |
| AWCS0012070736N□00 | 36 | 250/250 | | 24 | 2320 | 0.44 | 320 | 10,5,3,2 |
| AWCS0012070739N□00 | 39 | 250/250 | | 25 | 2100 | 0.55 | 200 | 10,5,3,2 |
| AWCS0012070740N□00 | 40 | 250/250 | | 24 | 2240 | 0.65 | 320 | 10,5,3,2 |
| AWCS0012070743N□00 | 43 | 250/250 | | 25 | 2030 | 0.81 | 100 | 10,5,3,2 |
| AWCS0012070747N□00 | 47 | 250/250 | | 20 | 2100 | 0.83 | 150 | 10,5,3,2 |
| AWCS0012070751N□00 | 51 | 250/250 | | 25 | 1750 | 0.82 | 100 | 10,5,3,2 |
| AWCS0012070756N□00 | 56 | 250/250 | | 22 | 1760 | 0.97 | 100 | 10,5,3,2 |
| AWCS0012070768N□00 | 68 | 250/250 | | 22 | 1620 | 1.12 | 100 | 10,5,3,2 |
| AWCS0012070772N□00 | 72 | 250/250 | | 20 | 1260 | 2 | 30 | 10,5,3,2 |
| AWCS0012070782N□00 | 82 | 250/250 | | 20 | 1260 | 1.55 | 50 | 10,5,3,2 |
| AWCS00120707R10□00 | 100 | 250/250 | | 20 | 1160 | 2 | 30 | 10,5,3,2 |
| AWCS00120707R18□00 | 180 | 100/100 | | 8 | 700 | 2.7 | 50 | 10,5,3,2 |
| AWCS00120707R22□00 | 220 | 100/100 | | 8 | 700 | 4 | 50 | 10,5,3,2 |

Note: When ordering, please specify tolerance code. Tolerance: B=±0.1 / G=±2% / H=±3% / J=±5% / K=±10%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- I_{rms} for a 15°C temperature rise from 25°C ambient.
- Measure Equipment:

L & Q: Agilent E4991A+Agilent HP16197A

SRF: Agilent HP8753D/Agilent E4991A

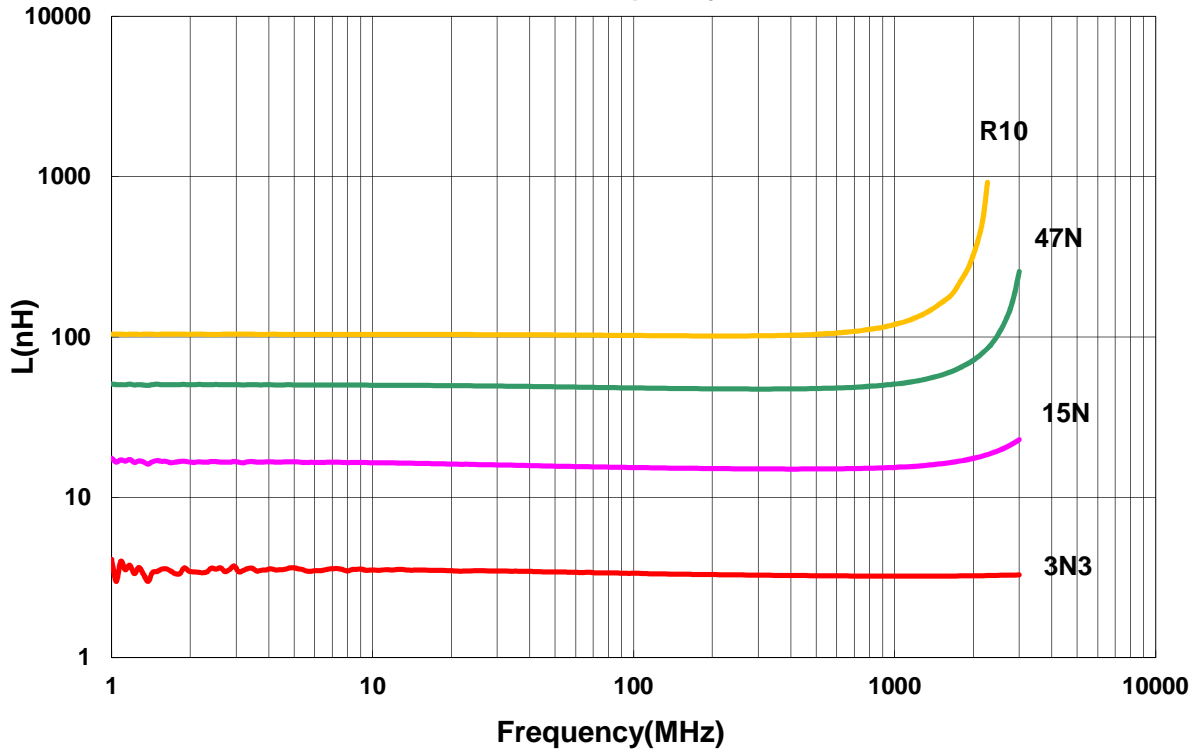
RDC: HP4287A

I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

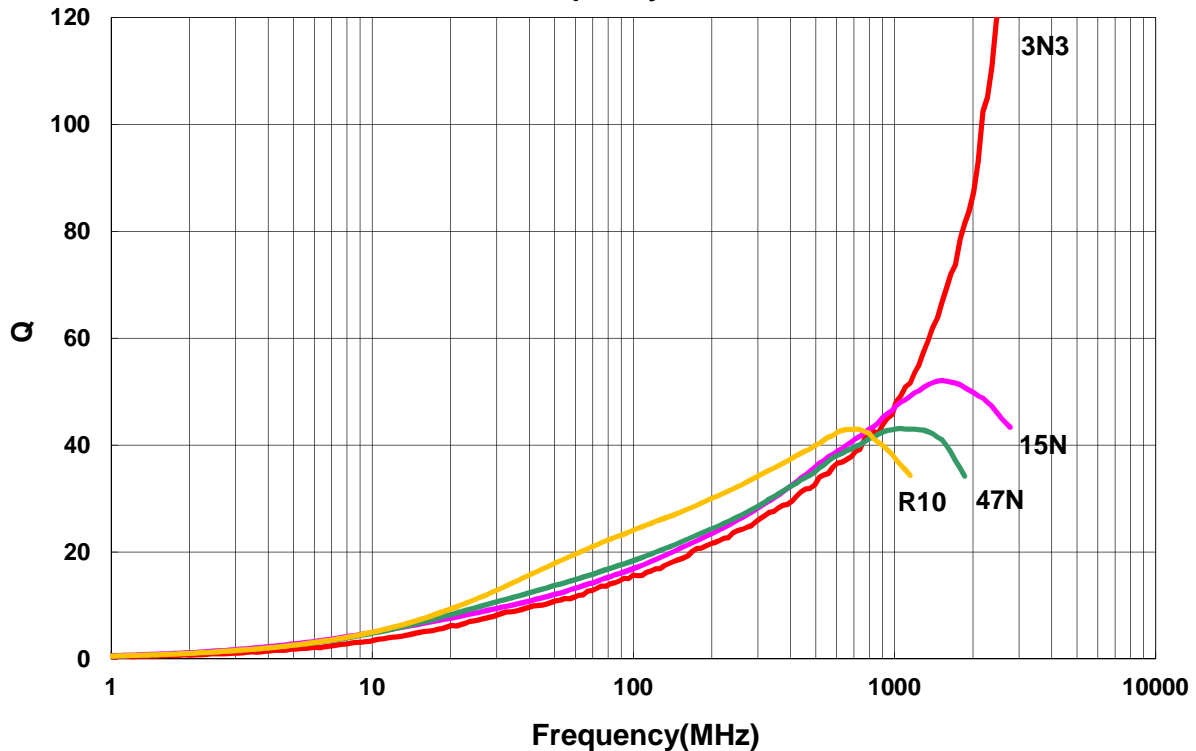
AWCS00120707 Type

Characteristics Graph

Inductance vs. Frequency Characteristics



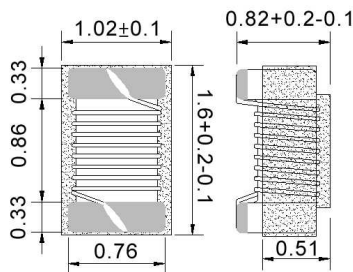
Q vs. Frequency Characteristics



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AWCS00161008 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

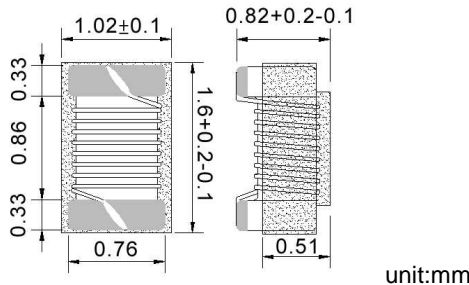
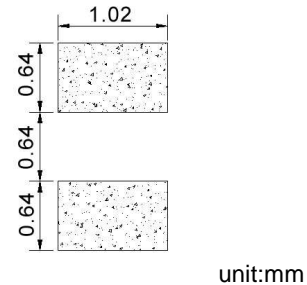
Electrical Characteristics

| Part No. | Inductance (nH) | L/Q Test | | Q Min. | SRF (MHz)Min. | RDC (Ω)Max. | I _{rms} (mA)Max. | Tolerance |
|--------------------|-----------------|-------------|--|--------|---------------|-------------|---------------------------|-------------|
| | | Freq. (MHz) | | | | | | |
| AWCS001610081N6□00 | 1.6 | 250/250 | | 24 | 12500 | 0.03 | 700 | 10,5,±0.1nH |
| AWCS001610081N8□00 | 1.8 | 250/250 | | 16 | 12500 | 0.045 | 700 | 10,5,±0.1nH |
| AWCS001610082N2□00 | 2.2 | 250/250 | | 13 | 12500 | 0.25 | 700 | 10,5,±0.1nH |
| AWCS001610083N3□00 | 3.3 | 250/250 | | 35 | 5900 | 0.045 | 700 | 10,5,3,2 |
| AWCS001610083N6□00 | 3.6 | 250/250 | | 22 | 5900 | 0.063 | 700 | 10,5,3,2 |
| AWCS001610083N9□00 | 3.9 | 250/250 | | 22 | 6900 | 0.08 | 700 | 10,5,3,2 |
| AWCS001610084N3□00 | 4.3 | 250/250 | | 22 | 5900 | 0.063 | 700 | 10,5,3,2 |
| AWCS001610084N7□00 | 4.7 | 250/250 | | 20 | 5800 | 0.116 | 700 | 10,5,3,2 |
| AWCS001610085N1□00 | 5.1 | 250/250 | | 20 | 5700 | 0.14 | 700 | 10,5,3,2 |
| AWCS001610085N6□00 | 5.6 | 250/250 | | 20 | 5800 | 0.17 | 700 | 10,5,3,2 |
| AWCS001610086N3□00 | 6.3 | 250/250 | | 20 | 5700 | 0.14 | 700 | 10,5,3,2 |
| AWCS001610086N8□00 | 6.8 | 250/250 | | 27 | 5800 | 0.11 | 700 | 10,5,3,2 |
| AWCS001610087N5□00 | 7.5 | 250/250 | | 28 | 4800 | 0.106 | 700 | 10,5,3,2 |
| AWCS001610088N2□00 | 8.2 | 250/250 | | 28 | 4700 | 0.109 | 700 | 10,5,3,2 |
| AWCS001610088N7□00 | 8.7 | 250/250 | | 28 | 4600 | 0.109 | 700 | 10,5,3,2 |
| AWCS001610089N1□00 | 9.1 | 250/250 | | 28 | 4800 | 0.12 | 700 | 10,5,3,2 |
| AWCS001610089N5□00 | 9.5 | 250/250 | | 28 | 5400 | 0.135 | 700 | 10,5,3,2 |
| AWCS0016100810N□00 | 10 | 250/250 | | 31 | 4800 | 0.13 | 700 | 10,5,3,2 |
| AWCS0016100811N□00 | 11 | 250/250 | | 33 | 4000 | 0.086 | 700 | 10,5,3,2 |
| AWCS0016100812N□00 | 12 | 250/250 | | 35 | 4000 | 0.13 | 700 | 10,5,3,2 |
| AWCS0016100813N□00 | 13 | 250/250 | | 30 | 4000 | 0.16 | 700 | 10,5,3,2 |
| AWCS0016100815N□00 | 15 | 250/250 | | 35 | 4000 | 0.17 | 700 | 10,5,3,2 |
| AWCS0016100816N□00 | 16 | 250/250 | | 34 | 3300 | 0.104 | 700 | 10,5,3,2 |
| AWCS0016100818N□00 | 18 | 250/250 | | 35 | 3100 | 0.17 | 700 | 10,5,3,2 |
| AWCS0016100820N□00 | 20 | 250/250 | | 38 | 3000 | 0.19 | 700 | 10,5,3,2 |
| AWCS0016100822N□00 | 22 | 250/250 | | 38 | 3000 | 0.19 | 700 | 10,5,3,2 |
| AWCS0016100823N□00 | 23 | 250/250 | | 38 | 2850 | 0.19 | 700 | 10,5,3,2 |
| AWCS0016100824N□00 | 24 | 250/250 | | 37 | 2650 | 0.135 | 700 | 10,5,3,2 |
| AWCS0016100827N□00 | 27 | 250/250 | | 40 | 2800 | 0.22 | 600 | 10,5,3,2 |
| AWCS0016100830N□00 | 30 | 250/250 | | 37 | 2250 | 0.144 | 600 | 10,5,3,2 |
| AWCS0016100833N□00 | 33 | 250/250 | | 40 | 2300 | 0.22 | 600 | 10,5,3,2 |
| AWCS0016100836N□00 | 36 | 250/250 | | 38 | 2080 | 0.25 | 600 | 10,5,3,2 |

Note: When ordering, please specify tolerance code. Tolerance: B=±0.1 / G=±2% / H=±3% / J=±5% / K=±10%

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. I_{rms} for a 15°C temperature rise from 25°C ambient.
3. Measure Equipment:
L & Q: Agilent E4991A+Agilent HP16197A
SRF: Agilent HP8753D/Agilent E4991A
RDC: Chroma 16502

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AWCS00161008 Type
■ Dimensions

■ Recommended Land Pattern

■ Electrical Characteristics

| Part No. | Inductance (nH) | L/Q Test | | Q Min. | SRF (MHz)Min. | RDC (Ω)Max. | I _{rms} (mA)Max. | Tolerance |
|--------------------|--------------------|----------------|--|-----------|------------------|----------------|------------------------------|-----------|
| | | Freq. (MHz) | | | | | | |
| AWCS0016100839N□00 | 39 | 250/250 | | 40 | 2200 | 0.25 | 600 | 10,5,3,2 |
| AWCS0016100843N□00 | 43 | 250/250 | | 39 | 2000 | 0.28 | 600 | 10,5,3,2 |
| AWCS0016100847N□00 | 47 | 200/200 | | 38 | 2000 | 0.28 | 600 | 10,5,3,2 |
| AWCS0016100851N□00 | 51 | 200/200 | | 38 | 1900 | 0.31 | 600 | 10,5,3,2 |
| AWCS0016100856N□00 | 56 | 200/200 | | 38 | 1900 | 0.31 | 600 | 10,5,3,2 |
| AWCS0016100868N□00 | 68 | 200/200 | | 37 | 1700 | 0.34 | 600 | 10,5,3,2 |
| AWCS0016100872N□00 | 72 | 150/150 | | 34 | 1700 | 0.49 | 400 | 10,5,3,2 |
| AWCS0016100882N□00 | 82 | 150/150 | | 34 | 1700 | 0.54 | 400 | 10,5,3,2 |
| AWCS0016100891N□00 | 91 | 150/150 | | 34 | 1400 | 0.58 | 400 | 10,5,3,2 |
| AWCS00161008R10□00 | 100 | 150/150 | | 34 | 1400 | 0.58 | 400 | 10,5,3,2 |
| AWCS00161008R11□00 | 110 | 150/150 | | 32 | 1350 | 0.61 | 300 | 10,5,3,2 |
| AWCS00161008R12□00 | 120 | 150/150 | | 32 | 1300 | 0.75 | 300 | 10,5,3,2 |
| AWCS00161008R15□00 | 150 | 150/150 | | 28 | 990 | 0.92 | 280 | 10,5,3,2 |
| AWCS00161008R16□00 | 160 | 100/100 | | 25 | 990 | 1.25 | 240 | 10,5,3,2 |
| AWCS00161008R18□00 | 180 | 100/100 | | 25 | 990 | 1.25 | 240 | 10,5,3,2 |
| AWCS00161008R20□00 | 200 | 100/100 | | 25 | 900 | 2.1 | 200 | 10,5,3,2 |
| AWCS00161008R21□00 | 210 | 100/100 | | 27 | 895 | 2.06 | 200 | 10,5,3,2 |
| AWCS00161008R22□00 | 220 | 100/100 | | 25 | 900 | 2.1 | 200 | 10,5,3,2 |
| AWCS00161008R24□00 | 240 | 100/100 | | 25 | 900 | 2.2 | 200 | 10,5,3,2 |
| AWCS00161008R25□00 | 250 | 100/100 | | 25 | 822 | 3.55 | 120 | 10,5,3,2 |
| AWCS00161008R27□00 | 270 | 100/100 | | 24 | 900 | 2.8 | 170 | 10,5,3,2 |
| AWCS00161008R33□00 | 330 | 100/100 | | 25 | 900 | 3.89 | 100 | 10,5,3,2 |
| AWCS00161008R39□00 | 390 | 100/100 | | 25 | 900 | 4.35 | 100 | 10,5,3,2 |
| AWCS00161008R47□00 | 470 | 100/100 | | 25 | 500 | 4.5 | 100 | 10,5,3,2 |
| AWCS00161008R56□00 | 560 | 100/100 | | 23 | 460 | 4.7 | 90 | 10,5,3,2 |

Note: When ordering, please specify tolerance code. Tolerance: B=±0.1 / G=±2% / H=±3% / J=±5% / K=±10%

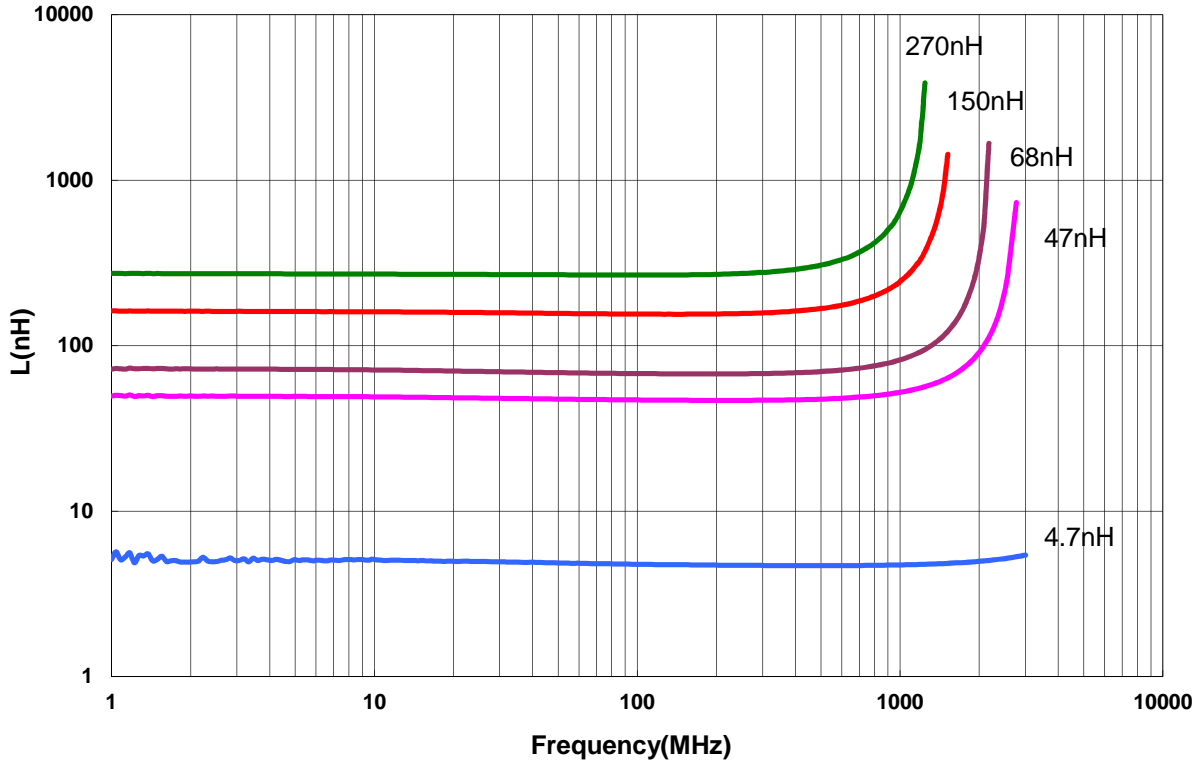
1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. I_{rms} for a 15°C temperature rise from 25°C ambient.
3. Measure Equipment:

L & Q: Agilent E4991A+Agilent HP16197A
 SRF: Agilent HP8753D/Agilent E4991A
 RDC: Chroma 16502
 I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

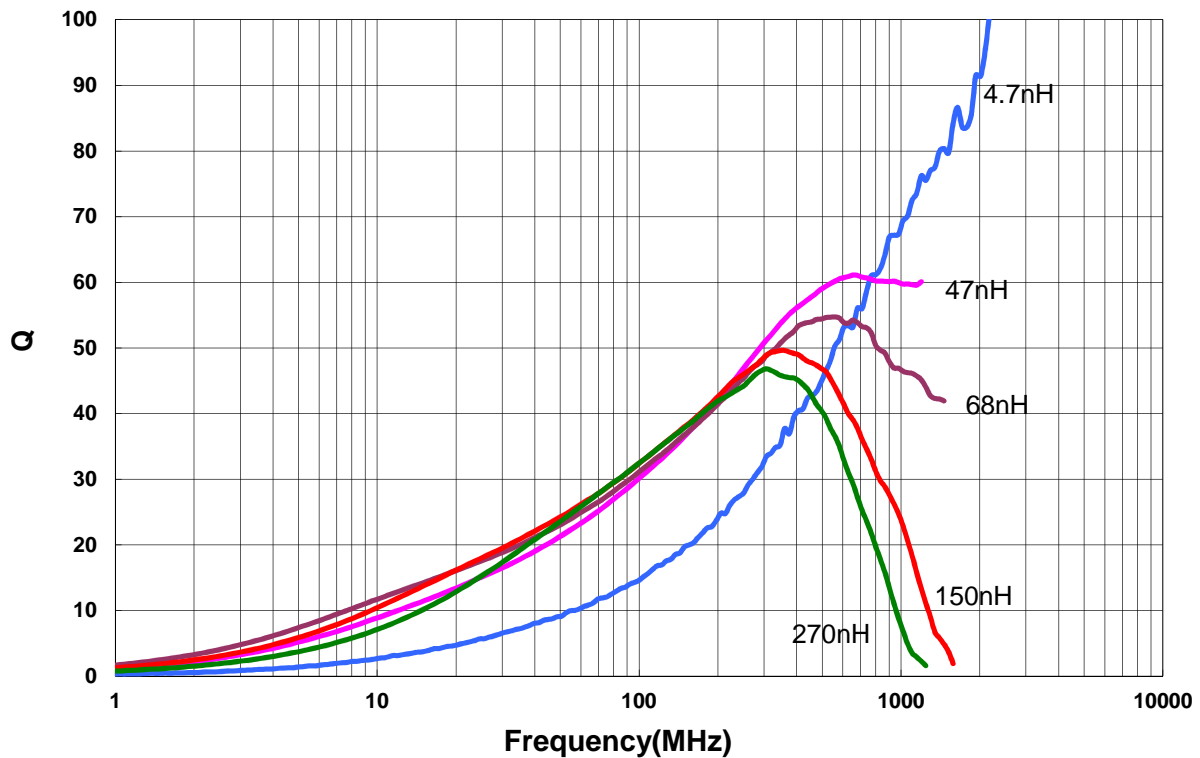
AWCS00161008 Type

Characteristics Graph

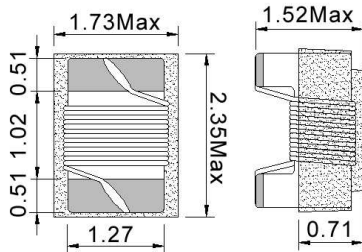
Inductance vs. Frequency Charateristics



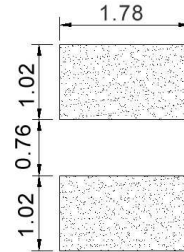
Q vs. Frequency Charateristics



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AWCS00231715 Type
■ Dimensions


unit:mm

■ Recommended Land Pattern


unit:mm

■ Electrical Characteristics

| Part No. | Inductance (nH) | L/Q Test | | Q Min. | SRF (MHz)Min. | RDC (Ω)Max. | I _{rms} (mA)Max. | Tolerance |
|--------------------|--------------------|------------|-------|-----------|------------------|----------------|------------------------------|-----------|
| | | Inductance | Freq. | | | | | |
| AWCS002317152N7□00 | 2.7 | 250/1500 | 50 | 7900 | 0.06 | 800 | 10,5,2 | |
| AWCS002317152N8□00 | 2.8 | 250/1500 | 80 | 7900 | 0.06 | 800 | 10,5,2 | |
| AWCS002317153N0□00 | 3.0 | 250/1500 | 65 | 7900 | 0.06 | 800 | 10,5,2 | |
| AWCS002317153N3□00 | 3.3 | 250/1500 | 50 | 7900 | 0.08 | 600 | 10,5,2 | |
| AWCS002317155N6□00 | 5.6 | 250/1000 | 65 | 5500 | 0.08 | 600 | 10,5,2 | |
| AWCS002317156N8□00 | 6.8 | 250/1000 | 50 | 5500 | 0.11 | 600 | 10,5,2 | |
| AWCS002317157N5□00 | 7.5 | 250/1000 | 50 | 4500 | 0.14 | 600 | 10,5,2 | |
| AWCS002317158N2□00 | 8.2 | 250/1000 | 50 | 4700 | 0.12 | 600 | 10,5,2 | |
| AWCS0023171510N□00 | 10 | 250/500 | 60 | 4200 | 0.10 | 600 | 10,5,2 | |
| AWCS0023171512N□00 | 12 | 250/500 | 50 | 4000 | 0.15 | 600 | 10,5,2 | |
| AWCS0023171515N□00 | 15 | 250/500 | 50 | 3400 | 0.17 | 600 | 10,5,2 | |
| AWCS0023171518N□00 | 18 | 250/500 | 50 | 3300 | 0.20 | 600 | 10,5,2 | |
| AWCS0023171522N□00 | 22 | 250/500 | 55 | 2600 | 0.22 | 500 | 10,5,2 | |
| AWCS0023171524N□00 | 24 | 250/500 | 50 | 2000 | 0.22 | 500 | 10,5,2 | |
| AWCS0023171527N□00 | 27 | 250/500 | 55 | 2500 | 0.25 | 500 | 10,5,2 | |
| AWCS0023171533N□00 | 33 | 250/500 | 60 | 2050 | 0.27 | 500 | 10,5,2 | |
| AWCS0023171536N□00 | 36 | 250/500 | 55 | 1700 | 0.27 | 500 | 10,5,2 | |
| AWCS0023171539N□00 | 39 | 250/500 | 60 | 2000 | 0.29 | 500 | 10,5,2 | |
| AWCS0023171543N□00 | 43 | 200/500 | 60 | 1650 | 0.34 | 500 | 10,5,2 | |
| AWCS0023171547N□00 | 47 | 200/500 | 60 | 1650 | 0.31 | 500 | 10,5,2 | |
| AWCS0023171556N□00 | 56 | 200/500 | 60 | 1550 | 0.34 | 500 | 10,5,2 | |
| AWCS0023171568N□00 | 68 | 200/500 | 60 | 1450 | 0.38 | 500 | 10,5,2 | |
| AWCS0023171582N□00 | 82 | 150/500 | 65 | 1300 | 0.42 | 400 | 10,5,2 | |
| AWCS0023171591N□00 | 91 | 150/500 | 65 | 1200 | 0.48 | 400 | 10,5,2 | |
| AWCS00231715R10□00 | 100 | 150/500 | 65 | 1200 | 0.46 | 400 | 10,5,2 | |
| AWCS00231715R11□00 | 110 | 150/250 | 50 | 1000 | 0.48 | 400 | 10,5,2 | |
| AWCS00231715R12□00 | 120 | 150/250 | 50 | 1100 | 0.51 | 400 | 10,5,2 | |
| AWCS00231715R15□00 | 150 | 100/250 | 50 | 920 | 0.56 | 400 | 10,5,2 | |
| AWCS00231715R18□00 | 180 | 100/250 | 50 | 870 | 0.64 | 400 | 10,5,2 | |
| AWCS00231715R20□00 | 200 | 100/250 | 50 | 860 | 0.68 | 400 | 10,5,2 | |

Note: When ordering, please specify tolerance code. Tolerance: G=±2% / J=±5% / K=±10%

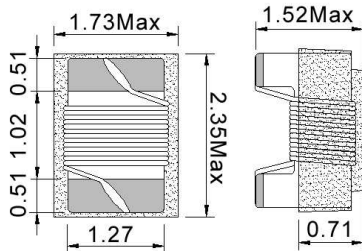
1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. I_{rms} for a 15°C temperature rise from 25°C ambient.
3. Measure Equipment:

L & Q: Agilent E4991A+Agilent HP16197A

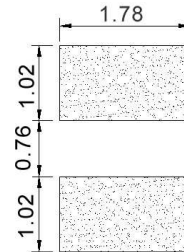
SRF: Agilent HP8753D/Agilent E4991A

RDC: Chroma 16502

I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

AWCS00231715 Type
■ Dimensions


unit:mm

■ Recommended Land Pattern


unit:mm

■ Electrical Characteristics

| Part No. | Inductance (nH) | L/Q Test | | Q Min. | SRF (MHz)Min. | RDC (Ω)Max. | I _{rms} (mA)Max. | Tolerance |
|--------------------|--------------------|------------|-------|-----------|------------------|----------------|------------------------------|-----------|
| | | Inductance | Freq. | | | | | |
| AWCS00231715R22□00 | 220 | 100/250 | 50 | 850 | 0.70 | 400 | 10,5,2 | |
| AWCS00231715R24□00 | 240 | 100/250 | 44 | 690 | 1.00 | 350 | 10,5,2 | |
| AWCS00231715R25□00 | 250 | 100/250 | 45 | 660 | 1.2 | 350 | 10,5,2 | |
| AWCS00231715R27□00 | 270 | 100/250 | 48 | 650 | 1 | 350 | 10,5,2 | |
| AWCS00231715R30□00 | 300 | 100/250 | 25 | 450 | 1.4 | 310 | 10,5,2 | |
| AWCS00231715R33□00 | 330 | 100/250 | 48 | 600 | 1.4 | 310 | 10,5,2 | |
| AWCS00231715R39□00 | 390 | 100/250 | 48 | 560 | 1.5 | 290 | 10,5,2 | |
| AWCS00231715R47□00 | 470 | 50/100 | 33 | 450 | 1.76 | 250 | 10,5,2 | |
| AWCS00231715R51□00 | 510 | 25/50 | 23 | 340 | 1.9 | 230 | 10,5,2 | |
| AWCS00231715R56□00 | 560 | 25/50 | 23 | 340 | 1.9 | 230 | 10,5,2 | |
| AWCS00231715R62□00 | 620 | 25/50 | 23 | 220 | 2.2 | 210 | 10,5,2 | |
| AWCS00231715R68□00 | 680 | 25/50 | 23 | 188 | 2.2 | 190 | 10,5,2 | |
| AWCS00231715R30□00 | 820 | 25/50 | 23 | 215 | 2.35 | 180 | 10,5,2 | |
| AWCS002317151R0□00 | 1000 | 25/50 | 20 | 100 | 2.5 | 170 | 10,5,2 | |
| AWCS002317151R2□00 | 1200 | 7.9/25 | 18 | 100 | 2.5 | 170 | 10,5 | |
| AWCS002317151R8□00 | 1800 | 7.9/7.9 | 16 | 80 | 2.5 | 170 | 10,5,2 | |
| AWCS002317152R2□00 | 2200 | 7.9/7.9 | 16 | 65 | 3.9 | 140 | 10,5,2 | |
| AWCS002317153R3□00 | 3300 | 7.9/7.9 | 15 | 40 | 4.4 | 90 | 10,5,2 | |
| AWCS002317154R7□00 | 4700 | 7.9/7.9 | 15 | 40 | 6.4 | 90 | 10,5,2 | |

Note: When ordering, please specify tolerance code. Tolerance: G=±2% / J=±5% / K=±10%

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)

2. I_{rms} for a 15°C temperature rise from 25°C ambient.

3. Measure Equipment:

L & Q: Agilent E4991A+Agilent HP16197A

SRF: Agilent HP8753D/Agilent E4991A

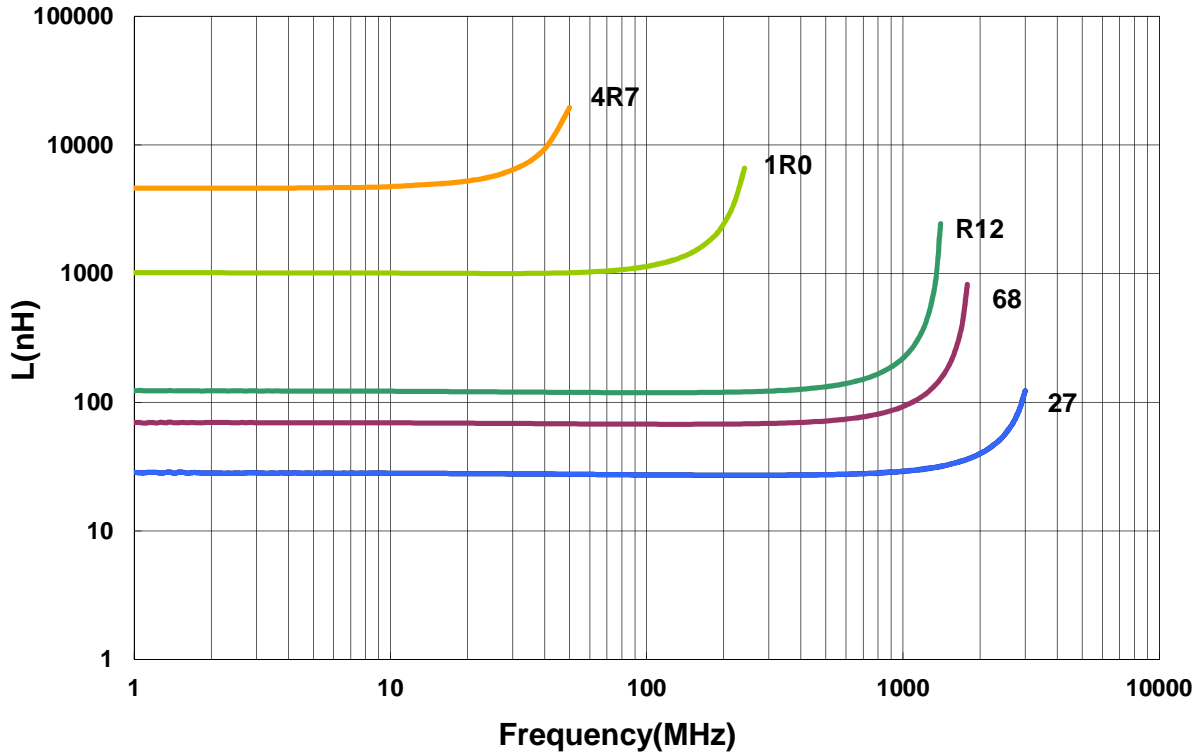
RDC:Chroma 16502

I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

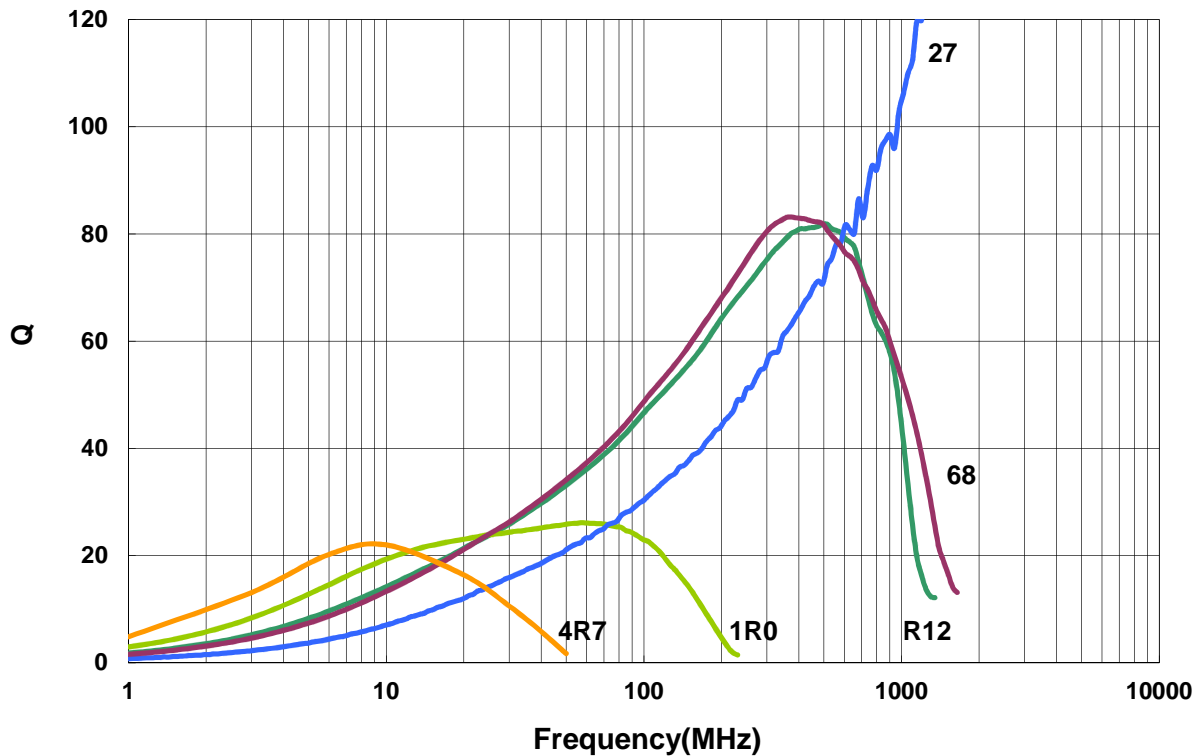
AWCS00231715 Type

Characteristics Graph

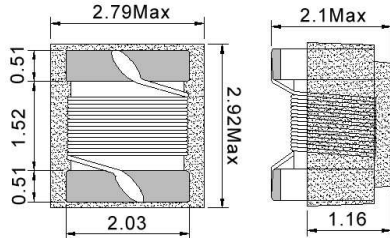
Inductance vs. Frequency Charateristics



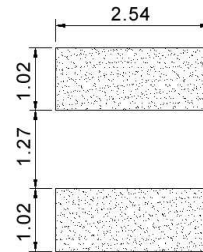
Q vs. Frequency Charateristics



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AWCS00292821 Type
■ Dimensions


unit:mm

■ Recommended Land Pattern


unit:mm

■ Electrical Characteristics

| Part No. | Inductance (nH) | L/Q Test | | Q Min. | SRF (MHz)Min. | RDC (Ω)Max. | I _{rms} (mA)Max. | Tolerance |
|---------------------|--------------------|----------------|--|-----------|------------------|----------------|------------------------------|-----------|
| | | Freq. (MHz) | | | | | | |
| AWCS00292821-10N□00 | 10 | 50/500 | | 50 | 4100 | 0.08 | 1000 | 10,5,2 |
| AWCS00292821-12N□00 | 12 | 50/500 | | 50 | 3300 | 0.09 | 1000 | 10,5,2 |
| AWCS00292821-15N□00 | 15 | 50/500 | | 50 | 2500 | 0.1 | 1000 | 10,5,2 |
| AWCS00292821-18N□00 | 18 | 50/350 | | 50 | 2500 | 0.11 | 1000 | 10,5,2 |
| AWCS00292821-22N□00 | 22 | 50/350 | | 55 | 2400 | 0.12 | 1000 | 10,5,2 |
| AWCS00292821-27N□00 | 27 | 50/350 | | 55 | 1600 | 0.13 | 1000 | 10,5,2 |
| AWCS00292821-33N□00 | 33 | 50/350 | | 60 | 1600 | 0.14 | 1000 | 10,5,2 |
| AWCS00292821-39N□00 | 39 | 50/350 | | 60 | 1500 | 0.15 | 1000 | 10,5,2 |
| AWCS00292821-47N□00 | 47 | 50/350 | | 65 | 1500 | 0.16 | 1000 | 10,5,2 |
| AWCS00292821-56N□00 | 56 | 50/350 | | 65 | 1300 | 0.18 | 1000 | 10,5,2 |
| AWCS00292821-68N□00 | 68 | 50/350 | | 65 | 1300 | 0.2 | 1000 | 10,5,2 |
| AWCS00292821-82N□00 | 82 | 50/350 | | 60 | 1000 | 0.22 | 1000 | 10,5,2 |
| AWCS00292821-R10□00 | 100 | 25/350 | | 60 | 1000 | 0.56 | 650 | 10,5,2 |
| AWCS00292821-R12□00 | 120 | 25/350 | | 60 | 950 | 0.63 | 650 | 10,5,2 |
| AWCS00292821-R15□00 | 150 | 25/100 | | 45 | 850 | 0.7 | 580 | 10,5,2 |
| AWCS00292821-R18□00 | 180 | 25/100 | | 45 | 750 | 0.77 | 620 | 10,5,3,2 |
| AWCS00292821-R20□00 | 200 | 25/100 | | 45 | 700 | 0.84 | 500 | 10,5,2 |
| AWCS00292821-R22□00 | 220 | 25/100 | | 45 | 700 | 0.84 | 500 | 10,5,2 |
| AWCS00292821-R27□00 | 270 | 25/100 | | 45 | 600 | 0.91 | 500 | 10,5,2 |
| AWCS00292821-R33□00 | 330 | 25/100 | | 45 | 570 | 1.05 | 450 | 10,5,2 |
| AWCS00292821-R39□00 | 390 | 25/100 | | 45 | 500 | 1.12 | 470 | 10,5,2 |
| AWCS00292821-R47□00 | 470 | 25/100 | | 45 | 450 | 1.19 | 470 | 10,5,2 |
| AWCS00292821-R56□00 | 560 | 25/100 | | 45 | 415 | 1.33 | 400 | 10,5,2 |
| AWCS00292821-R62□00 | 620 | 25/100 | | 45 | 375 | 1.4 | 300 | 10,5,2 |
| AWCS00292821-R68□00 | 680 | 25/100 | | 45 | 375 | 1.47 | 400 | 10,5,2 |
| AWCS00292821-R75□00 | 750 | 25/100 | | 45 | 360 | 1.54 | 360 | 10,5,2 |
| AWCS00292821-R82□00 | 820 | 25/100 | | 45 | 350 | 1.61 | 400 | 10,5,2 |
| AWCS00292821-R91□00 | 910 | 25/50 | | 35 | 320 | 1.68 | 380 | 10,5,2 |

Note: When ordering, please specify tolerance code. Tolerance: G=±2% / H=±3% / J=±5% / K=±10%

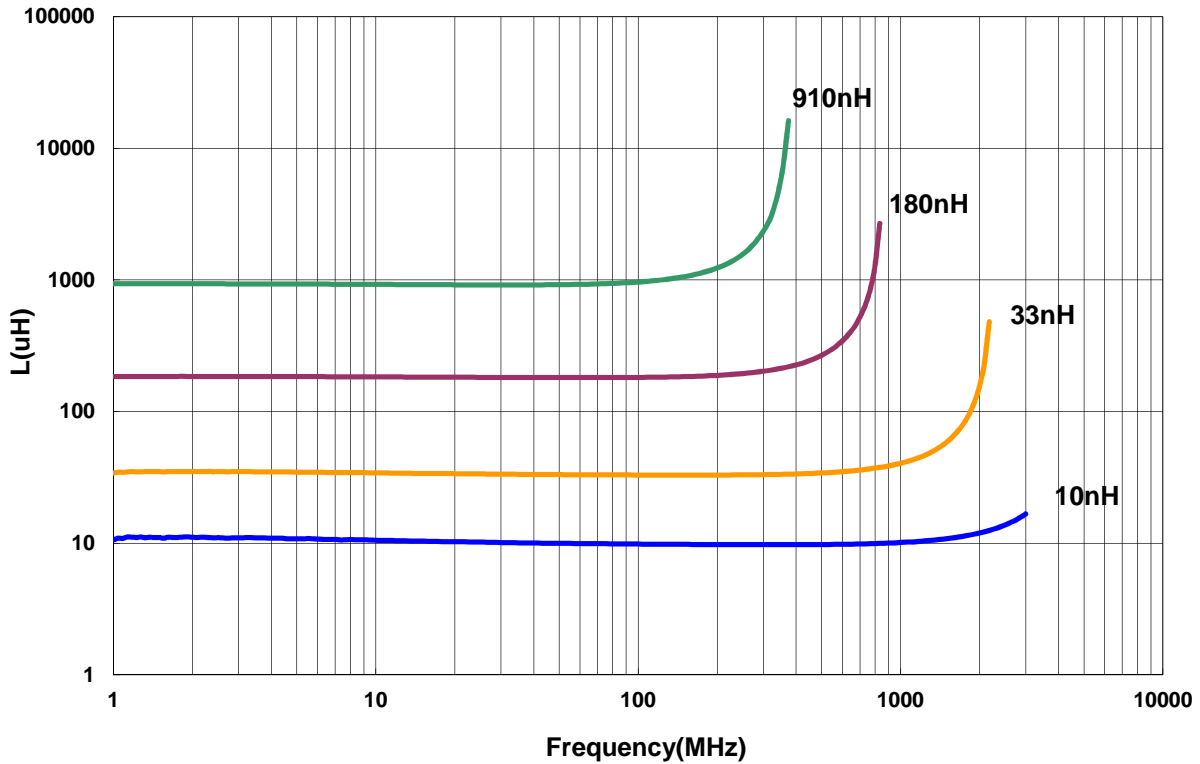
1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. I_{rms} for a 15°C temperature rise from 25°C ambient.
3. Measure Equipment:

L & Q: Agilent E4991A+Agilent HP16197A
 SRF: Agilent HP8753D/Agilent E4991A
 RDC: Chroma 16502
 I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

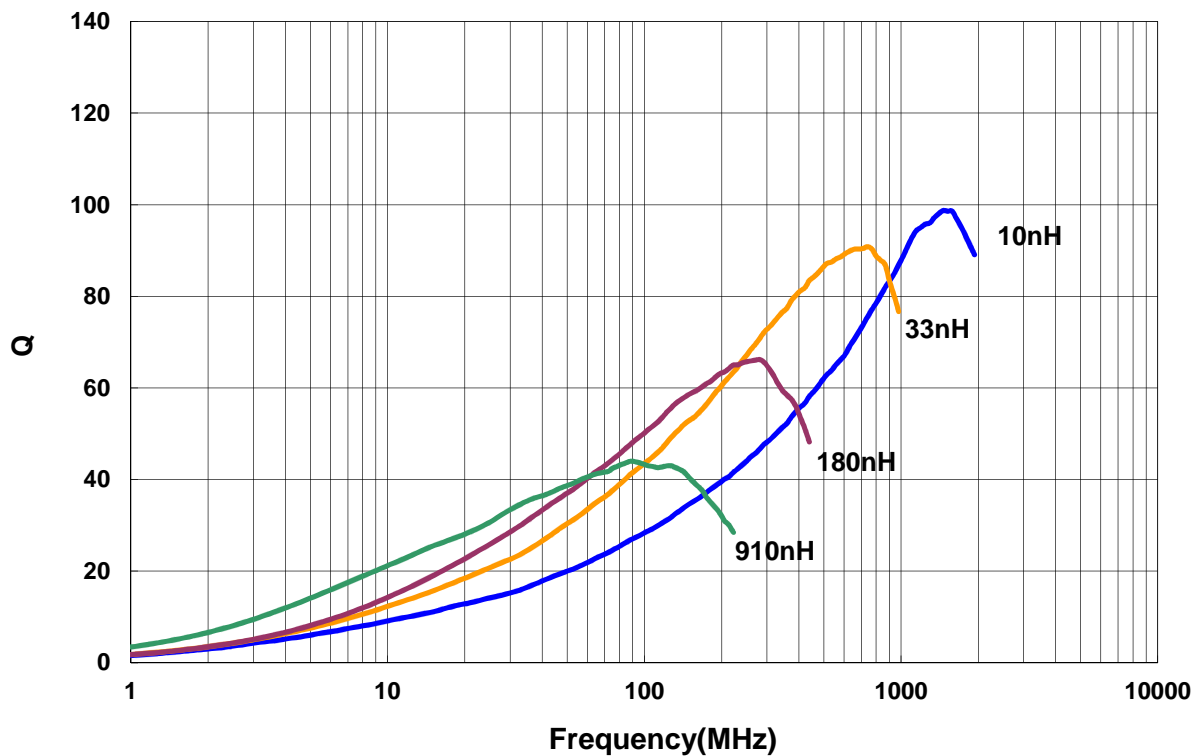
AWCS00292821 Type

■ Characteristics Graph

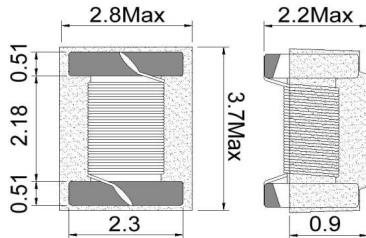
Inductance vs. Frequency Characteristics



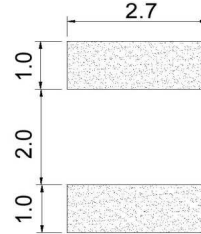
Q vs. Frequency Characteristics



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AWCS00372822 Type
■ Dimensions


unit:mm

■ Recommended Land Pattern


unit:mm

■ Electrical Characteristics

| Part No. | Inductance (nH) | L/Q Test | | Q Min. | SRF (MHz)Min. | RDC (Ω)Max. | I _{rms} (mA)Max. | Tolerance |
|--------------------|--------------------|------------|-------|-----------|------------------|----------------|------------------------------|-----------|
| | | Inductance | Freq. | | | | | |
| AWCS003728223N□00 | 3.3 | 100/300 | 30 | 6200 | 0.05 | 1000 | 10,5 | |
| AWCS003728226N8□00 | 6.8 | 100/300 | 30 | 5500 | 0.07 | 1000 | 10,5 | |
| AWCS0037282210N□00 | 10 | 100/300 | 40 | 4000 | 0.08 | 1000 | 10,5,2 | |
| AWCS0037282212N□00 | 12 | 100/300 | 40 | 3200 | 0.08 | 1000 | 10,5,2 | |
| AWCS0037282215N□00 | 15 | 100/300 | 40 | 3200 | 0.1 | 1000 | 10,5,2 | |
| AWCS0037282218N□00 | 18 | 100/300 | 50 | 2800 | 0.1 | 1000 | 10,5,2 | |
| AWCS0037282222N□00 | 22 | 100/300 | 50 | 2200 | 0.1 | 1000 | 10,5,2 | |
| AWCS0037282227N□00 | 27 | 100/300 | 50 | 1800 | 0.11 | 1000 | 10,5,2 | |
| AWCS0037282233N□00 | 33 | 100/300 | 55 | 1800 | 0.11 | 1000 | 10,5,2 | |
| AWCS0037282239N□00 | 39 | 100/300 | 55 | 1800 | 0.12 | 1000 | 10,5,2 | |
| AWCS0037282247N□00 | 47 | 100/300 | 55 | 1500 | 0.13 | 1000 | 10,5,2 | |
| AWCS0037282256N□00 | 56 | 100/300 | 55 | 1450 | 0.14 | 1000 | 10,5,2 | |
| AWCS0037282268N□00 | 68 | 100/300 | 55 | 1200 | 0.26 | 900 | 10,5,2 | |
| AWCS0037282282N□00 | 82 | 100/300 | 55 | 1200 | 0.21 | 900 | 10,5,2 | |
| AWCS00372822R10□00 | 100 | 100/300 | 55 | 1100 | 0.26 | 850 | 10,5,2 | |
| AWCS00372822R12□00 | 120 | 100/300 | 60 | 1100 | 0.26 | 800 | 10,5,2 | |
| AWCS00372822R15□00 | 150 | 100/300 | 60 | 950 | 0.31 | 750 | 10,5,2 | |
| AWCS00372822R18□00 | 180 | 50/300 | 60 | 900 | 0.43 | 700 | 10,5,2 | |
| AWCS00372822R22□00 | 220 | 50/300 | 60 | 760 | 0.5 | 670 | 10,5,2 | |
| AWCS00372822R27□00 | 270 | 50/300 | 55 | 730 | 0.56 | 630 | 10,5,2 | |
| AWCS00372822R33□00 | 330 | 50/150 | 45 | 650 | 0.62 | 590 | 10,5,2 | |
| AWCS00372822R39□00 | 390 | 50/150 | 45 | 600 | 0.75 | 530 | 10,5,2 | |
| AWCS00372822R47□00 | 470 | 50/150 | 45 | 550 | 1.3 | 490 | 10,5,2 | |
| AWCS00372822R56□00 | 560 | 35/150 | 45 | 470 | 1.34 | 460 | 10,5,2 | |
| AWCS00372822R62□00 | 620 | 35/150 | 45 | 470 | 1.58 | 460 | 10,5,2 | |
| AWCS00372822R68□00 | 680 | 35/150 | 45 | 450 | 1.58 | 430 | 10,5,2 | |
| AWCS00372822R75□00 | 750 | 35/150 | 45 | 440 | 2.25 | 320 | 10,5,2 | |
| AWCS00372822R82□00 | 820 | 35/150 | 45 | 420 | 1.82 | 400 | 10,5,2 | |
| AWCS00372822R91□00 | 910 | 35/150 | 45 | 410 | 2.95 | 310 | 10,5,2 | |
| AWCS003728221R0□00 | 1000 | 35/150 | 45 | 400 | 2.8 | 320 | 10,5,2 | |
| AWCS003728221R2□00 | 1200 | 35/150 | 45 | 380 | 3.2 | 300 | 10,5,2 | |

Note: When ordering, please specify tolerance code. Tolerance: G=±2% / J=±5% / K=±10%

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)

2. I_{rms} for a 15°C temperature rise from 25°C ambient.

3. Measure Equipment:

L & Q: Agilent E4991A/HP4286A/HP4287A

SRF: Agilent HP8753D/Agilent E4991A

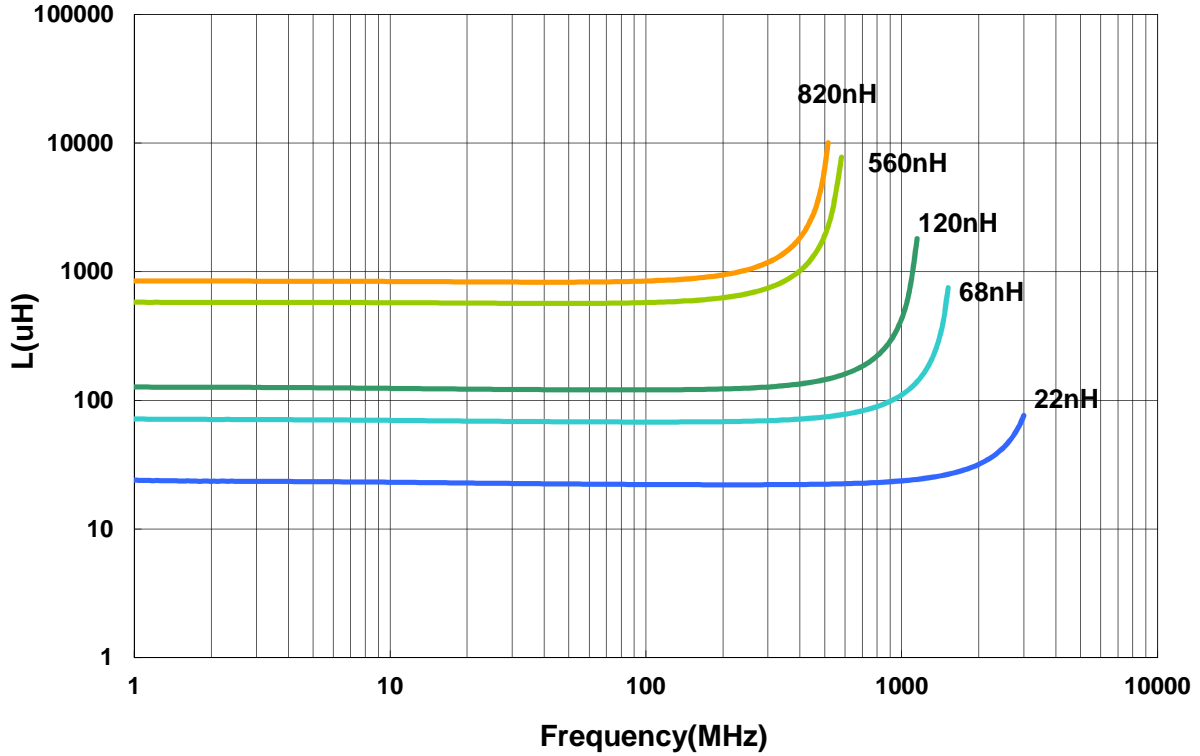
RDC: Chroma 16502

I_{rms}: HP4284A+HP42841A/HP4285A+HP42841A

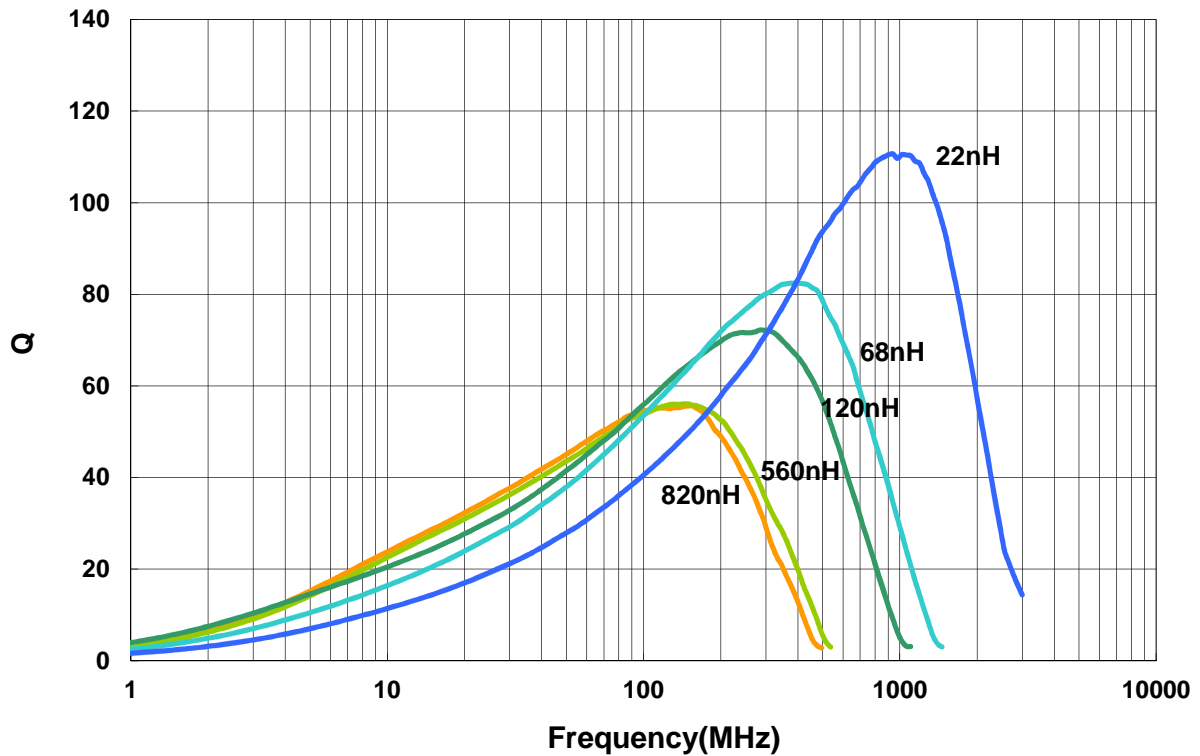
AWCS00372822 Type

Characteristics Graph

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics

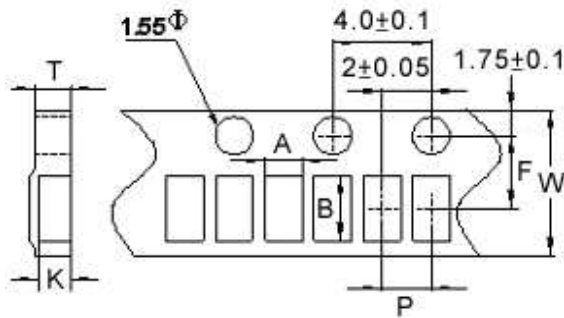


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■ Packaging

Tape Dimensions

Figure 1



Tape Material

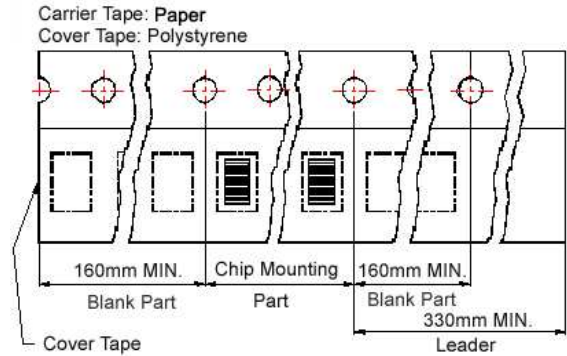


Figure 2

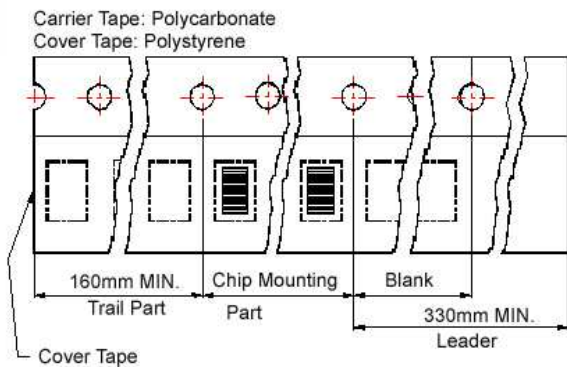
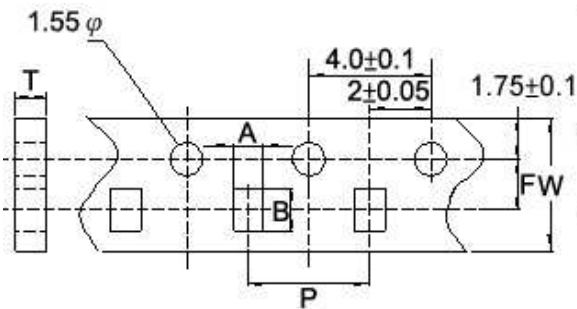
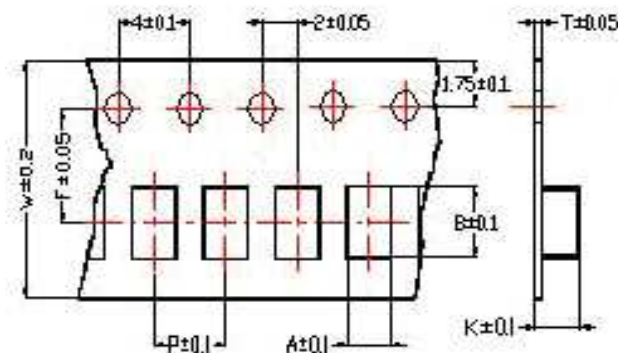
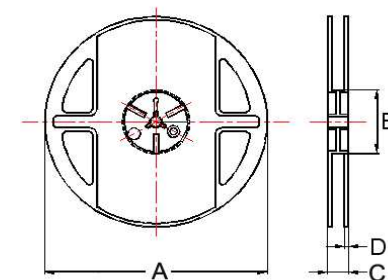


Figure 3



Reel Dimensions



Dimensions in mm

| TYPE | Fig. | Tape Dimensions | | | | | | | Reel Dimensions | | | | Quantity PCS / Reel |
|--------------|------|-----------------|------|------|----|---|-----|------|-----------------|----|----|-----|------------------------|
| | | A | B | T | W | P | F | K | A | B | C | D | |
| AWCS00120707 | 1 | 0.67 | 1.2 | 0.75 | 8 | 2 | 3.5 | 0.59 | 178 | 60 | 12 | 1.5 | 4000 |
| AWCS00161008 | 2 | 1.25 | 1.90 | 1.05 | 8 | 4 | 3.5 | - | 178 | 60 | 12 | 1.5 | 4000 |
| AWCS00231715 | 3 | 1.85 | 2.45 | 0.23 | 8 | 4 | 3.5 | 1.7 | 178 | 60 | 12 | 1.5 | 2000 |
| AWCS00292821 | 3 | 2.80 | 2.95 | 0.23 | 8 | 4 | 3.5 | 2.2 | 178 | 60 | 12 | 1.5 | 2000 |
| AWCS00372822 | 3 | 2.85 | 3.58 | 0.26 | 12 | 4 | 5.5 | 2.55 | 178 | 60 | 16 | 1.4 | 2000 |

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