



Wire Wound Chip Common Mode Choke Coil –ACMC-S/H Series 片式绕线共模电
Operating Temp. : -55°C~+150°C

● **FEATURES 特性**

1. 绕线工艺，小尺寸，低封装高度。
Winding type realizes small size and low profile.
2. 高频共模阻抗高，噪声抑制性能优良。
High common mode impedance at high frequency cause excellent noise .
3. 高可靠性，满足AEC-Q200测试要求。
High reliability -Reliability tests comply with AEC-Q200.



● **APPLICATIONS 用途**

1. 用于汽车USB2.0/HDMI2.0信号线，一般信号线。
Automotive USB 2.0/HDMI 2.0 signal transmission, General signal line.

● **PART NUMBERING SYSTEM 品名系统**

ACMC 2012 S - 900 - 2P - T
A B C D E F

A: Automobile Type 车载型号

C: For general signal line 一般信号线

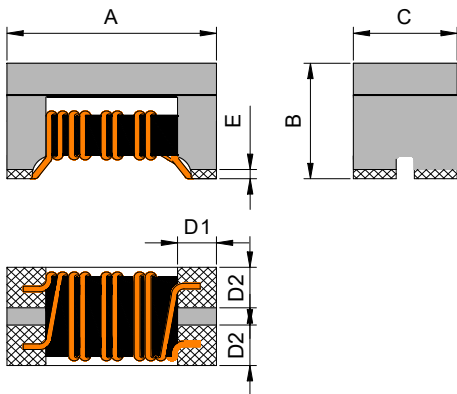
E: Number of line 2P : 2-Line

B: External Dimensions 外形尺寸 A*C

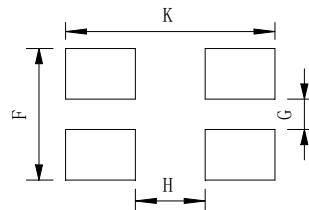
D: Impedance (900 = 90Ω) 阻抗

F: Packaging : T=Taping and reel 包装: 载盘编带

● **SHAPES AND DIMENSIONS 外形尺寸 (Unit:mm)**



Recommended Land Pattern



| TYPE(型号) | A | B | C | D1 | D2 | E | F | G | H | K |
|----------|---------|---------|---------|----------|----------|----------|---------|---------|---------|---------|
| ACMC2012 | 2.0±0.2 | 1.2±0.2 | 1.2±0.2 | 0.5 Ref | 0.45 Ref | 0.17 Max | 1.2 Ref | 0.4 Ref | 0.8 Ref | 2.6 Ref |
| ACMC3225 | 3.2±0.2 | 2.5Max | 2.5±0.2 | 0.8 Ref | 0.8Ref | 0.25Max | 3.5Ref | 0.6Ref | 1.6 Ref | 4.1Ref |
| ACMC4532 | 4.5±0.2 | 2.6±0.2 | 3.2±0.2 | 0.75 Ref | 0.75Ref | 0.5 Max | 3.4Ref | 1.6 Ref | 2.9 Ref | 5.5 Ref |

● SPECIFICATION TABLE:

ACMC2012S Series

| Part No. | Common Mode Impedance(Ω) | Test Frequency (MHz) | DCR (Ω) Max | Max. Rated Current (mA) | Rated Voltage (Vdc) | Insulation Resistance (M Ω) Min. | Withstanding Voltage (Vdc) |
|--------------------|-----------------------------------|----------------------|----------------------|-------------------------|---------------------|--|----------------------------|
| ACMC2012S-670-2P-T | 67 \pm 25% | 100 | 0.25 | 400 | 50 | 10 | 125 |
| ACMC2012S-900-2P-T | 90 \pm 25% | 100 | 0.30 | 400 | 50 | 10 | 125 |
| ACMC2012S-121-2P-T | 120 \pm 25% | 100 | 0.30 | 400 | 50 | 10 | 125 |
| ACMC2012S-181-2P-T | 180 \pm 25% | 100 | 0.35 | 350 | 50 | 10 | 125 |
| ACMC2012S-201-2P-T | 200 \pm 25% | 100 | 0.35 | 300 | 50 | 10 | 125 |
| ACMC2012S-361-2P-T | 360 \pm 25% | 100 | 0.45 | 300 | 50 | 10 | 125 |

ACMC3225S Series

| Part No. | Common Mode Impedance(Ω) | Test Frequency (MHz) | DCR (Ω) Max | Max. Rated Current (mA) | Rated Voltage (Vdc) | Insulation Resistance (M Ω) Min. | Withstanding Voltage (Vdc) |
|--------------------|-----------------------------------|----------------------|----------------------|-------------------------|---------------------|--|----------------------------|
| ACMC3225S-900-2P-T | 90 \pm 25% | 100 | 0.05 | 1000 | 50 | 10 | 125 |
| ACMC3225S-601-2P-T | 600 \pm 25% | 100 | 0.2 | 1000 | 50 | 10 | 125 |
| ACMC3225S-102-2P-T | 1000 \pm 25% | 100 | 0.3 | 750 | 50 | 10 | 125 |
| ACMC3225S-222-2P-T | 2200 \pm 25% | 100 | 0.3 | 640 | 50 | 10 | 125 |
| ACMC3225S-242-2P-T | 2400 \pm 25% | 100 | 0.3 | 1000 | 50 | 10 | 125 |

ACMC3225H Series

| Part No. | Common Mode Impedance(Ω) | Test Frequency (MHz) | DCR (Ω) Max | Max. Rated Current (mA) | Rated Voltage (Vdc) | Insulation Resistance (M Ω) Min. | Withstanding Voltage (Vdc) |
|--------------------|-----------------------------------|----------------------|----------------------|-------------------------|---------------------|--|----------------------------|
| ACMC3225H-501-2P-T | 500 \pm 25% | 100 | 0.1 | 2000 | 50 | 10 | 125 |
| ACMC3225H-102-2P-T | 1000 \pm 25% | 100 | 0.1 | 1500 | 50 | 10 | 125 |

ACMC4532S Series

| Part No. | Common Mode Impedance(Ω) | Test Frequency (MHz) | DCR (Ω) Max | Max. Rated Current (mA) | Rated Voltage (Vdc) | Insulation Resistance (M Ω) Min. | Withstanding Voltage (Vdc) |
|--------------------|-----------------------------------|----------------------|----------------------|-------------------------|---------------------|--|----------------------------|
| ACMC4532S-701-2P-T | 700 \pm 25% | 100 | 0.15 | 1000 | 50 | 10 | 125 |

1. Operating temperature range : -55 $^{\circ}$ C \sim 150 $^{\circ}$ C (Including self - temperature rise)
2. Storage temperature range (packaging conditions): -55 $^{\circ}$ C \sim 150 $^{\circ}$ C (Including self - temperature rise) and RH 70% (Max.)
3. Rated Current (Irms)

Irms is direct electric current as chip surface temperature rose just 20 $^{\circ}$ C or 40 $^{\circ}$ C against chip initial surface temperature (Ta)

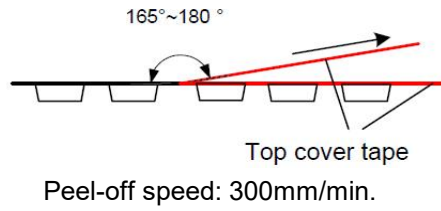
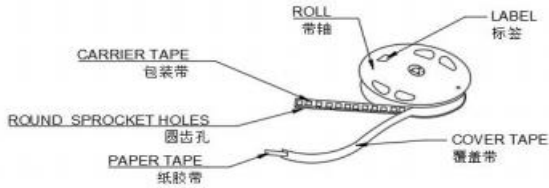
Temperature rise: Rated Current < 1A Δ T 20 $^{\circ}$ C Max

Rated Current \geq 1A Δ T 40 $^{\circ}$ C Max

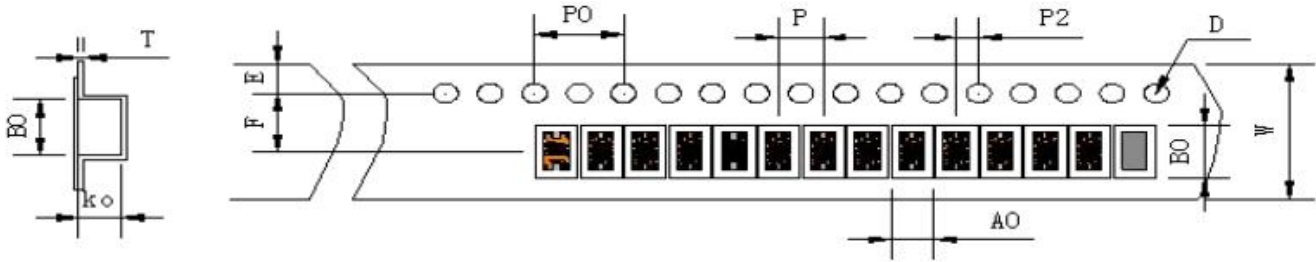
● **PACKAGING SPECIFICATION :**

1. Packaging - Cover Tape

The force for tearing off cover tape is 10 to 100 grams in the arrow direction.

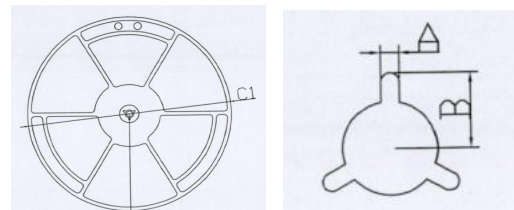
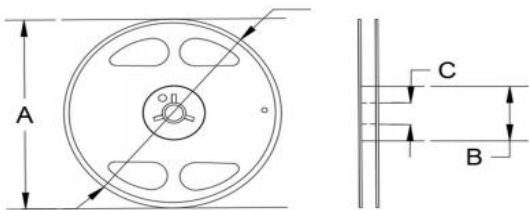


2. Packaging - Tape & Reel



ACMC2012S/ACMC4532S:

ACMC3225S/H:



| Type | Tape Dimension (mm) | | | | | | Reel Dimension (mm) | | | Quantity (Pcs/Reel) |
|-------------|---------------------|------|------|------|-----|---|---------------------|-------|-------|---------------------|
| | W | A0 | B0 | K0 | D | P | A | B | C(C1) | |
| ACMC2012S | 8 | 1.55 | 2.45 | 1.5 | 1.5 | 4 | 178 | 60 | 13 | 2000 pcs |
| ACMC3225S/H | 12 | 2.9 | 3.5 | 2.7 | 1.5 | 8 | 2.3 | 10.75 | 330 | 3000 pcs |
| ACMC4532S | 12 | 3.7 | 4.95 | 2.95 | 1.5 | 8 | 178 | 60 | 13 | 500pcs |