

tD

E(Ref.)

0.33

3

D(Ref.)

0.36

## Electrical Characteristic

A(±0.2)

1.20

Δ

Part Number	Impedance (Ω)	Tolerance (%)	Test Frequency (MHz)/0.5V	Rated Current (mA)/(Max.)	Rated Voltage (Vdc)	DC Resistance (Ω)/(Max.)	Insulation Resistance (MΩ)/(Min.)
ZCMS-0504EA-900N	90	25	100	280	20	0.50	10

### **Product Structure**

Туре

ZCMS-0504



2

C(Max.)

1.20

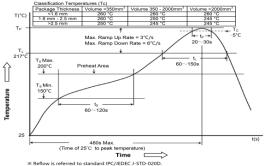
R

B(±0.2)

1.00

### **Reflow Heat Endurance**

ZenithTek Inc.



### Schematic

Туре

ZCMS-0504

A(Ref.)

0.60

B(Ref.)

1.50

C(Ref.)

0.30

D(Ref.)

1.20

2 °------ 3

### **Operating Conditions**

Operating Temp. : -25°C~+85°C (including self-temp. rise) Storage Temp. : -35°C and < 60%RH.

#### **Standard & Atmospheric Condition**

Ambient Temp. :  $20^{\circ}C \pm 15^{\circ}C$  / Relative Humidity :  $65\pm 20\%$ . If there may be any doubt on the result, measurement shall be made within the following limits : Ambient Temp. :  $20^{\circ}C \pm 2^{\circ}C$  / Relative Humidity :  $65\pm 5\%$ .

LCR Meter : Agilent E4291A. Resistance Meter : HIOKI-RM3545. Caliper : Mitsutoyo 150mm.

# Ambient Temp. : 20°C±

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**V0** 



Brand

Product Series Code File Version Description ZenithTek

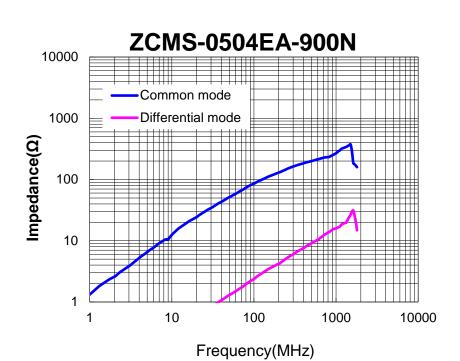
ZCMS-0504EA-900N



Wire Wound Common Mode Filter

#### **Electrical Characteristic Curve**

ZenithTek Inc.



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Brand Product Series Code File Version Description

#### ZenithTek

ZCMS-0504EA-900N



Wire Wound Common Mode Filter

### **Reliability Test**

No.	ltem	Specification	Test Method
1	Temperature Shock.	Appearance: No damage. Impedance: within ±10% of initial.	Temperature: -25±2℃ ~+85±2℃ Kept for 30 minutes. Transition time : 5 minutes. 100 Cycles.
2	Humidity Resistance.	Appearance: No damage. Impedance: within ±10% of initial.	Temperature: 40±2℃. Relative Humidity: 90%. Duration: 500 +4/-0 hours.
3	High Temperature Resistance.	Appearance: No damage. Impedance: within ±10% of initial.	Temperature: 85±2℃. Duration: 1000 +4/-0 hours.
4	Low Temperature Resistance.	Appearance: No damage. Impedance: within ±10% of initial.	Temperature: -25±2℃. Duration: 1000 +4/-0 hours.
5	Vibration test.	Appearance: No damage. Impedance: within ±10% of initial.	Oscillation Frequency: 10Hz to 55Hz to 10Hz in 60 seconds as a period. Total amplitude: 1.5mm. Testing Time: a period of 2 hours in each 3 mutually perpendicular directions (total of 6 hours).
6	Solderability Heat test.	Appearance: No damage. Impedance: within ±10% of initial.	Solder temperature: 260 +0/-5℃. Duration: 5 sec. Allowed reflow time: 2 times.
7	Solderability test.	90% or more of electrode area shall be coated by new solder.	Preheating: 160°C,60sec. Solder temperature: 245±5°C. Duration : 5 sec.
8	Flexure Strength.	No visible mechanical damage.	Flexure: 2mm. Pressurizing Speed: 0.5mm/sec. Keep time: 30±1sec.
9	Terminal Strength.	No visible mechanical damage.	Reflow 2 times. Force: 10N,Keep time: 5 sec,X,Y directs.



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**Brand Product Series Code File Version** 

Description

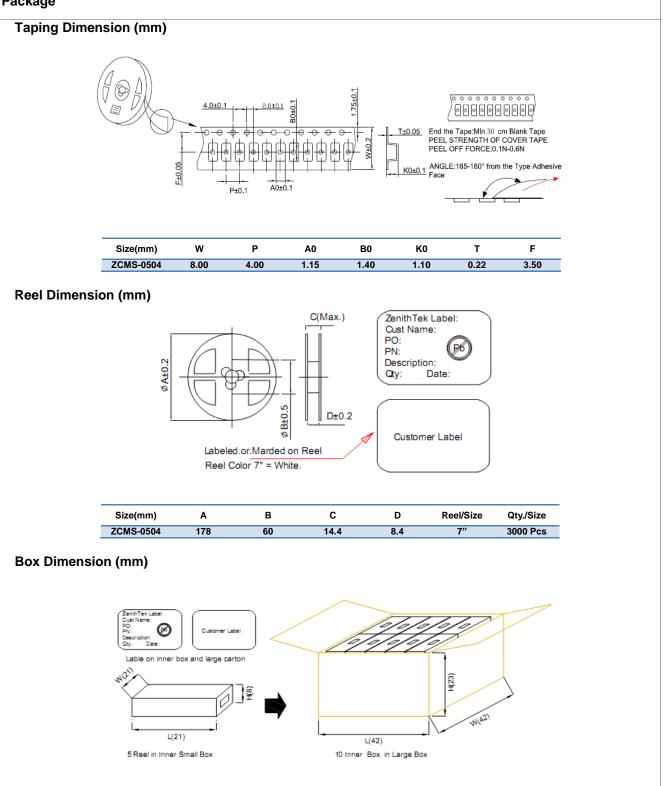
**ZenithTek** 

**ZCMS-0504EA-900N** 



**V0** Wire Wound Common Mode Filter

#### Package



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