

#### **ACMP-Q9050**

Request Samples



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9.0 x 7.0 x 4.5 mm **RoHS/RoHS II Compliant** MSL Level = 1

#### **Features**

- AEC-Q200 compliant, Grade 1
- PPAP ready and supported
- Manufactured in TS/IATF 16949 production lines
- Excellent impedance characteristics
- Rated current up to 6A
- Extremely low DCR

### **Applications**

- DC power line common mode noise suppression.
- Multimedia devices
- Automotive power train
- Automotive infotainment

### **Electrical Specifications**

Part Number	Impedance (Ω) @100MHz		DCR (mΩ)	Rated Current (A)	Rated Voltage (Vdc)	Insulation Resistance (MΩ) Min	
ACMP-Q9050-701	Min Typ. Max 500 700 9		6.0	Max 80	10		
ACMP-Q9050-102	750	1000	10	5.0	80	10	
ACMP-Q9050-152	1000	1500	15	4.5	80	10	
ACMP-Q9050-222	1700	2200	25	4.0	80	10	
ACMP-Q9050-272	2000	2700	32	3.5	80	10	

Rated Current is based on an Irms temperature rise of 40°C

ACMP-Q9050 is AEC-Q200 Automotive certified

ACMP-Q9050 Series is RoHS Compliant and Pb free

Operating Temperature: -40°C to +125°C (Including self-heating)

Storage Temperature (on PCB): -40°C to +125°C Storage (in original packaging): <40°C, <60% RH





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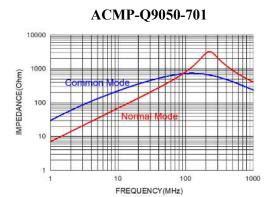


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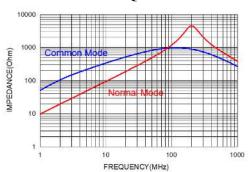


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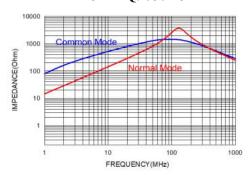
### **Electrical Specifications**



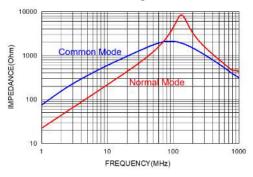
# ACMP-Q9050-102



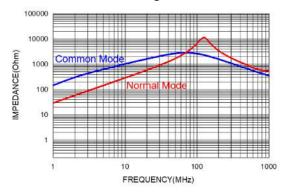
ACMP-Q9050-152



ACMP-Q9050-222



### ACMP-Q9050-272







**ACMP-Q9050** 

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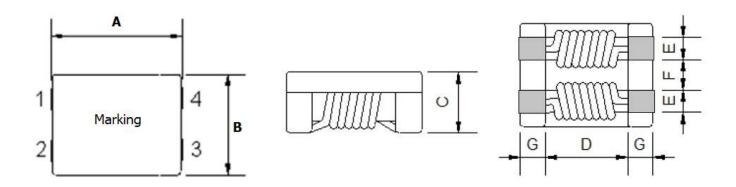


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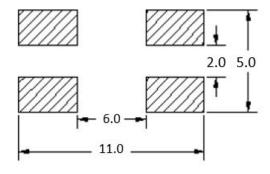


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### **Mechanical Specifications**



A	A B		D	E	F	G	
$9.0 \pm 0.5$	$7.0 \pm 0.5$	4.5 Max	5.3 Typ.	$1.5 \pm 0.5$	$2.1 \pm 0.5$	$1.8 \pm 0.5$	



# **Recommended Layout**

Dimensions: mm





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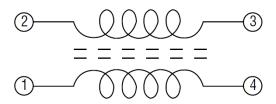


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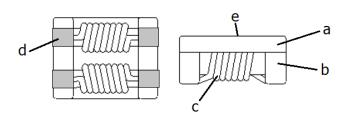


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#### **Schematic**

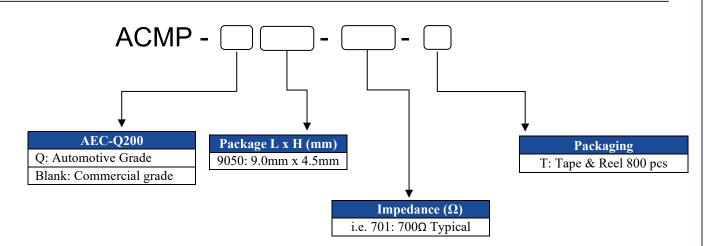


#### Materials



	Description	Specification
a	Upper Plate	Plastic
b	Core	Ferrite Core
С	Wire	Enameled Copper
d	Electrode	Ag/Ni/Sn + Sn Solder
e	Marking	Laser Marking

### **Part Identification**







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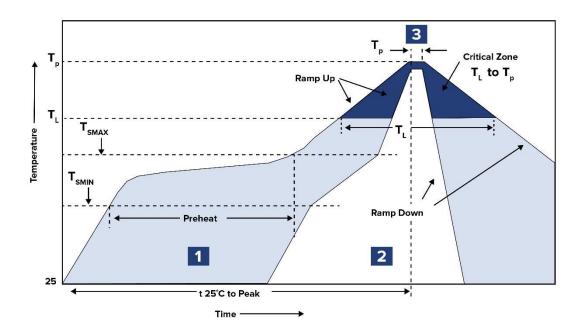


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### **Reflow Profile**



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX} \\ 150^{\circ}C \sim 200^{\circ}C$	$60 \sim 120 \text{ sec.}$
2	Reflow	T <sub>L</sub> 217°C	$60 \sim 150 \text{ sec.}$
3	Peak heat	Т <sub>Р</sub> 250°С±5°С	30 sec. MAX





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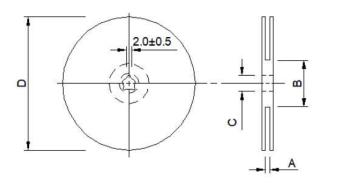
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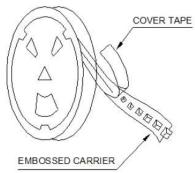


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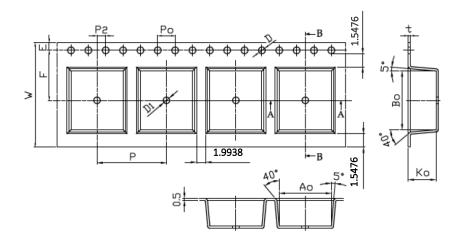
### **Packaging**

Tape & Reel: 800pcs/reel





Series	A	В	С	D	
ACMP-Q9050	$16.0 \pm 0.5$	$100.0 \pm 2.0$	$13.5 \pm 0.5$	330	



W	P	E	F	P0	P2	Bo	Ao	Ko	D	D1	t
16.0	12	1.75	7.5	4.0	2.0	9.6	8.6	4.6	1.5	1.5	0.4
$\pm 0.30$	$\pm 0.10$	+0.10/-0	$\pm 0.10$	$\pm 0.05$							

Dimensions: mm

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