

ACMP-Q9050

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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	Typ.	Max	Max	Max	Min	
ACMP-Q9050-701	500	700	9	6.0	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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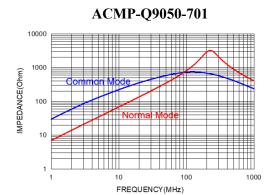


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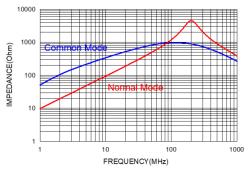


9.0 x 7.0 x 4.5 mm **RoHS/RoHS II Compliant** MSL Level = 1

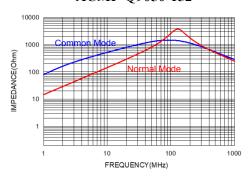
Electrical Specifications



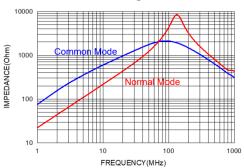
ACMP-Q9050-102



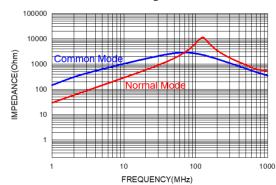
ACMP-Q9050-152



ACMP-Q9050-222



ACMP-Q9050-272







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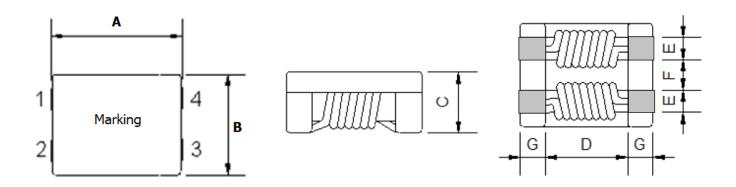


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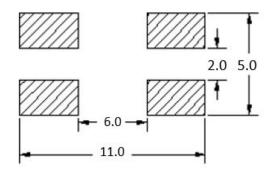


9.0 x 7.0 x 4.5 mm **RoHS/RoHS II Compliant** MSL Level = 1

Mechanical Specifications



A	A B C		D	E	F	G	
9.0 ± 0.5	7.0 ± 0.5	4.5 Max	5.3 Typ.	1.5 ± 0.5	2.1 ± 0.5	1.8 ± 0.5	



Recommended Layout

Dimensions: mm





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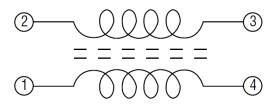


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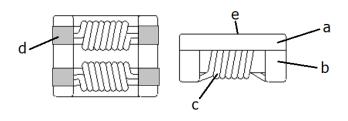


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Schematic

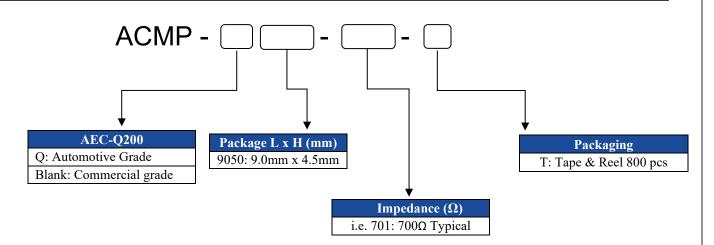


Materials



	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





5101 Hidden Creek Ln, Spicewood TX 78669 Phone: 512-371-6159 Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com

REVISION Initial Release 3/31/2022

ABRACON IS ISO9001-2015 CERTIFIED



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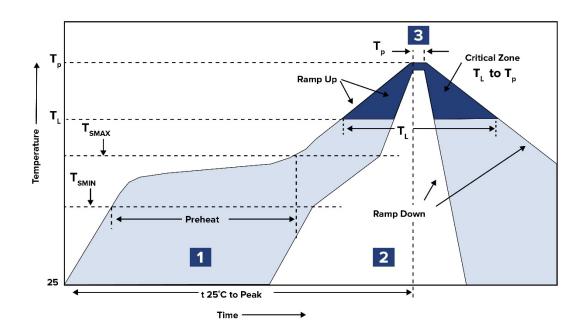


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Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX} \\ 150^{\circ}C \sim 200^{\circ}C$	60 ∼ 120 sec.
2	Reflow	T _L 217°C	60 ∼ 150 sec.
3	Peak heat	Т _Р 250°С±5°С	30 sec. MAX





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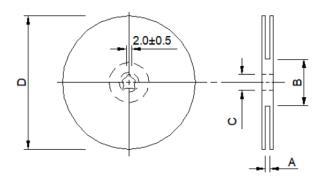
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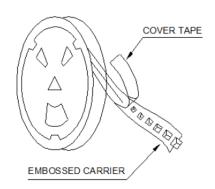


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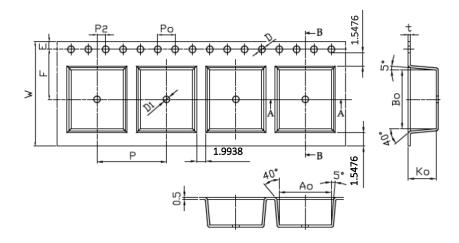
Packaging

Tape & Reel: 800pcs/reel





Series	A	В	С	D	
ACMP-Q9050	16.0 ± 0.5	100.0 ± 2.0	13.5 ± 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
± 0.30	± 0.10	+0.10/-0	± 0.10	± 0.05							

Dimensions: mm

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