

Automotive Power Common Mode Chokes



ACMP-Q7040

Request Samples



Check Inventory



7.0 x 6.0 x 3.8 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 15A
- 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 (m Ω)	Rated Current (A)	Rated Voltage (Vdc)	Insulation Resistance (M Ω)
	Min	Typ.	Max	Max	Max	Min
ACMP-Q7040-700	40	70	5	15	80	10
ACMP-Q7040-141	100	140	10	9	80	10
ACMP-Q7040-301	225	300	10	5	80	10
ACMP-Q7040-501	400	500	10	5	80	10
ACMP-Q7040-701	500	700	15	4	80	10
ACMP-Q7040-102	800	1020	17	3	80	10
ACMP-Q7040-132	910	1300	20	3	80	10

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

ACMP-Q7040 is AEC-Q200 Automotive certified

ACMP-Q7040 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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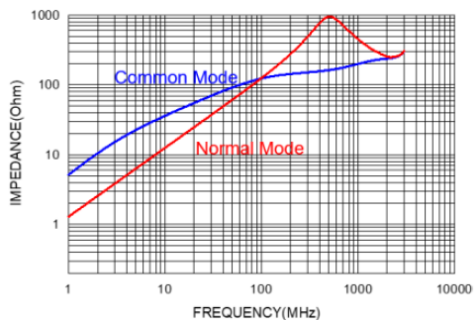


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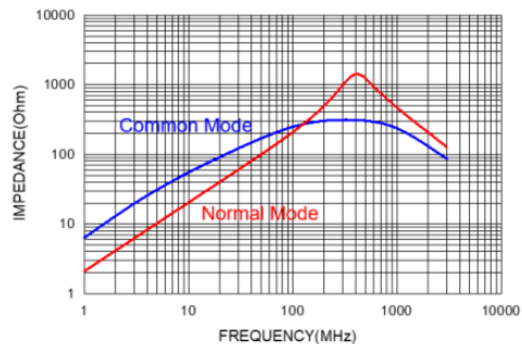


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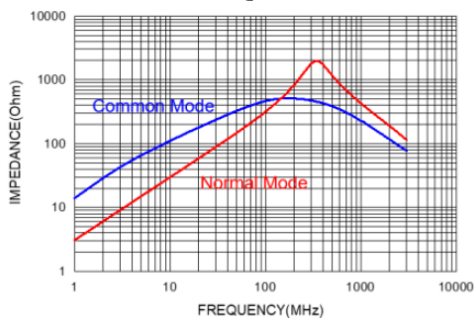
ACMP-Q7040-700



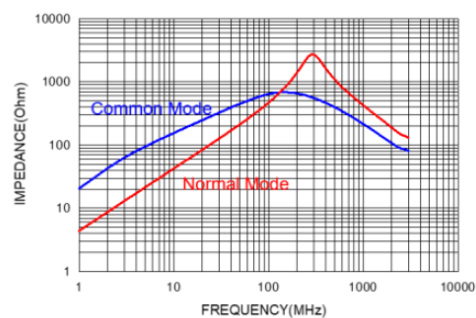
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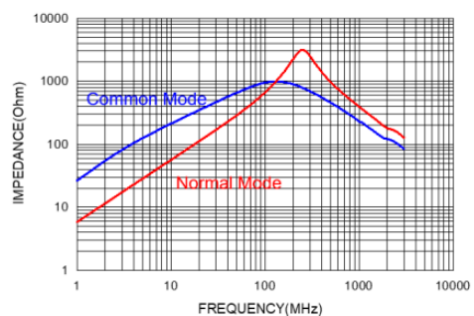
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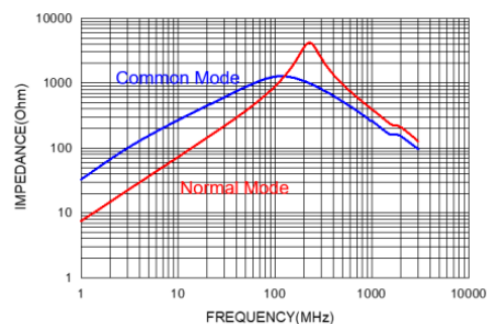
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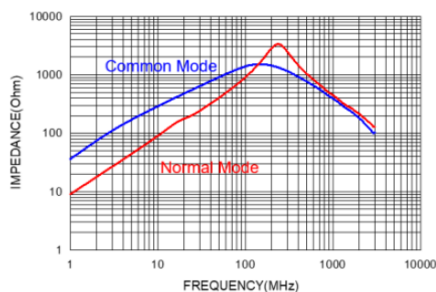
ACMP-Q7040-701



ACMP-Q7040-102



ACMP-Q7040-132



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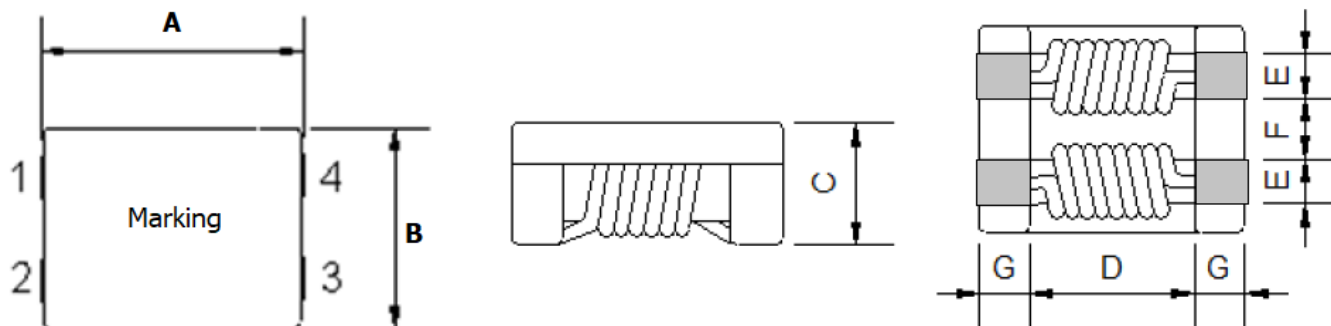


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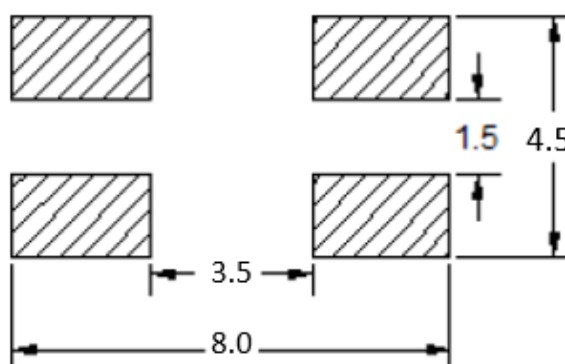


7.0 x 6.0 x 3.8 mm
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Mechanical Specifications



A	B	C	D	E	F	G
7.0 ±0.5	6.0 ±0.5	3.8 MAX	3.5 Typ.	1.5 ±0.5	1.5 ±0.5	1.7 ±0.2



Recommended Layout

Dimensions: mm

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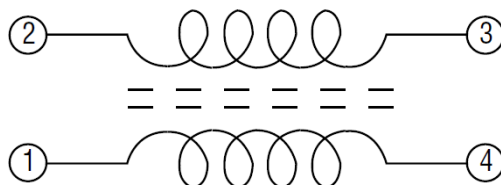


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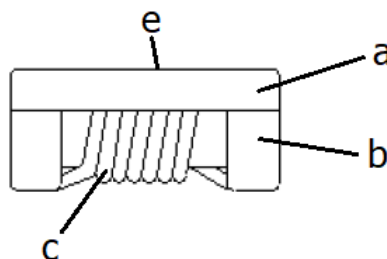
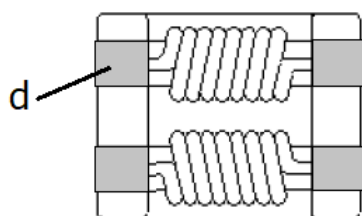


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Schematic

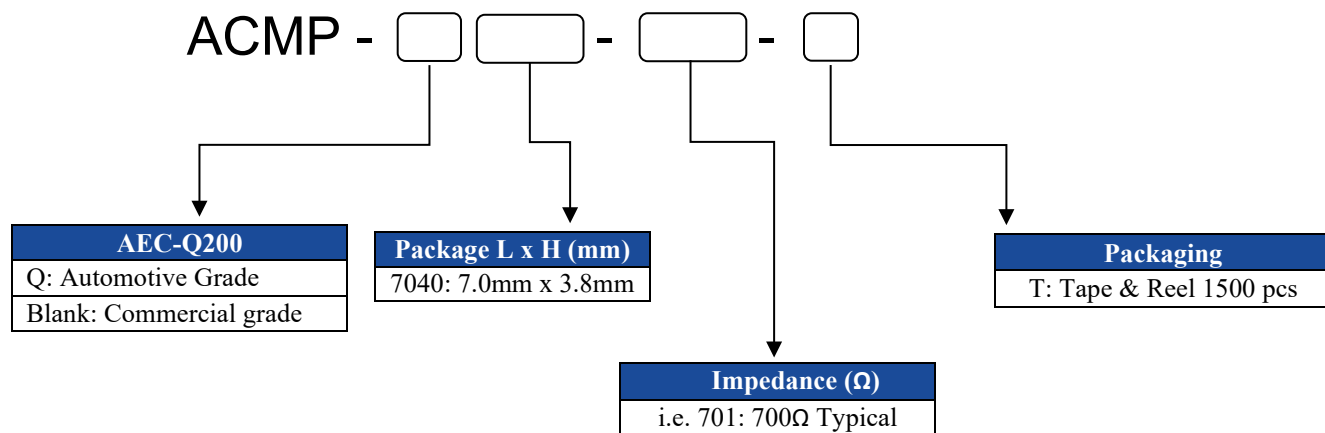


Materials



	Description
a	Upper Plate
b	Core
c	Wire
d	Electrode
e	Marking

Part Identification



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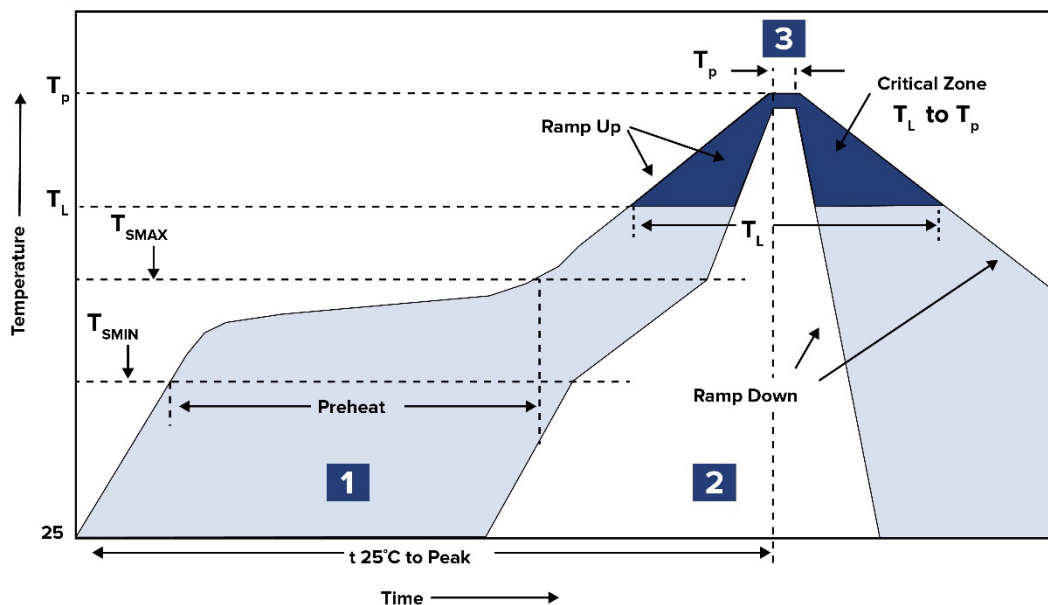


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Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	T_L 217°C	60 ~ 150 sec.
3	Peak heat	T_p 250°C ± 5°C	30 sec. MAX

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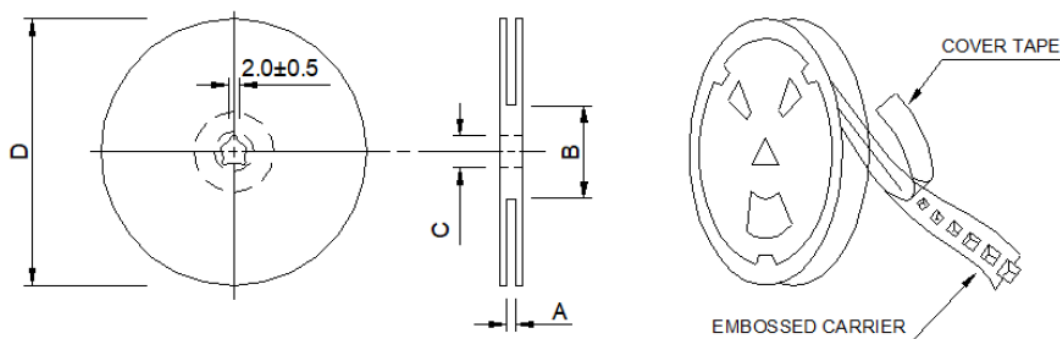
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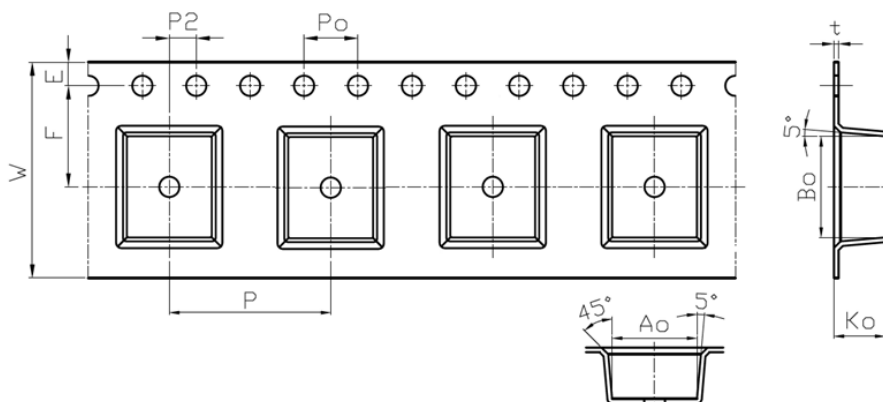
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Packaging

Tape & Reel: 1500pcs/reel



Series	A	B	C	D
ACMP-Q7040	16.0 ± 0.5	100.0 ± 2.0	13.5 ± 0.5	330



W	P	E	F	P0	P2	Bo	Ao	Ko	t
16.0 ± 0.30	12 ± 0.10	1.75 ± 0.10	7.5 ± 0.10	4.0 ± 0.10	2.0 ± 0.10	7.5 ± 0.10	6.3 ± 0.10	3.8 ± 0.10	0.35 ± 0.05

Dimensions: mm

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