

# Automotive Power Common Mode Chokes



ACMP-Q3226

Request Samples



Check Inventory



3.2 x 2.5 x 2.35 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
- low DCR

## Applications

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

## Electrical Specifications

Part Number	Impedance ( $\Omega$ ) $\pm 25\%$ @100MHz	DCR (m $\Omega$ )	Rated Current (A)	Rated Voltage (Vdc)	Insulation Resistance ( $\Omega$ )
		Max	Max	Max	Min
ACMP-Q3226-501	500	180	0.8	50	10
ACMP-Q3226-102	1000	200	0.75	50	10
ACMP-Q3226-242	2400	300	0.64	50	10

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

**ACMP-Q3226 is AEC-Q200 Automotive certified.**

**ACMP-Q3226 Series is RoHS Compliant and Pb free.**

**Operating Temperature:** -40°C to +125°C (AEC-Q200 Grade 1)

**Storage Temperature (on PCB):** -40°C to +125°C.

**Storage (in original packaging):** <40°C, <70% RH.

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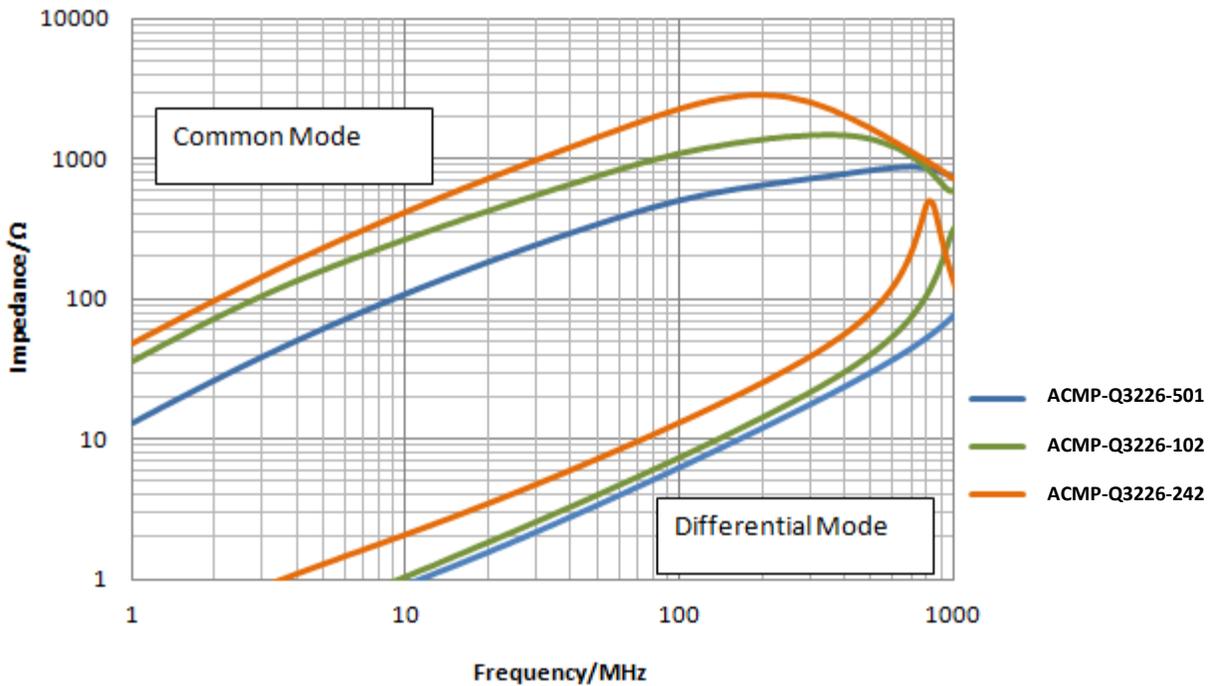


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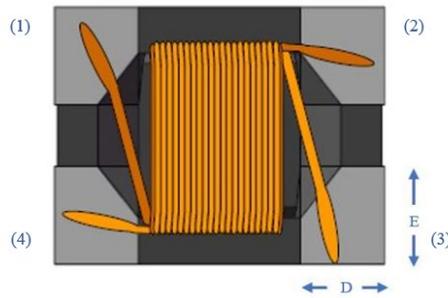
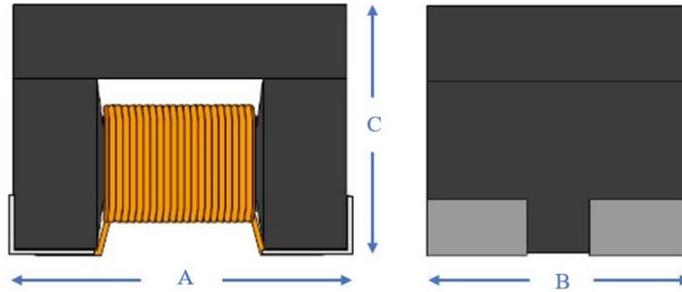


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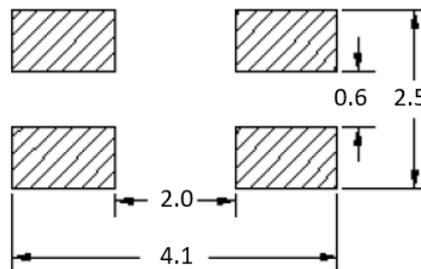


3.2 x 2.5 x 2.35 mm  
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## Mechanical Specifications



A	B	C	D	E
3.2 ±0.2	2.5 ±0.2	2.35 ±0.2	0.8	0.95



### Recommended Layout

Dimensions: mm

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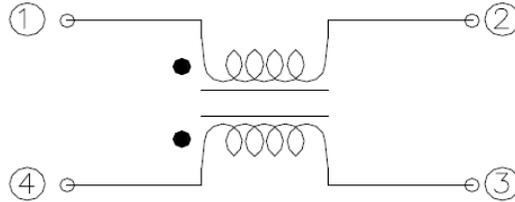


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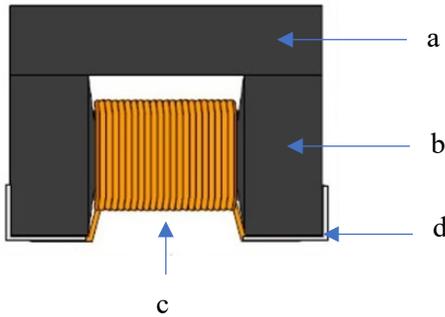


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## Schematic

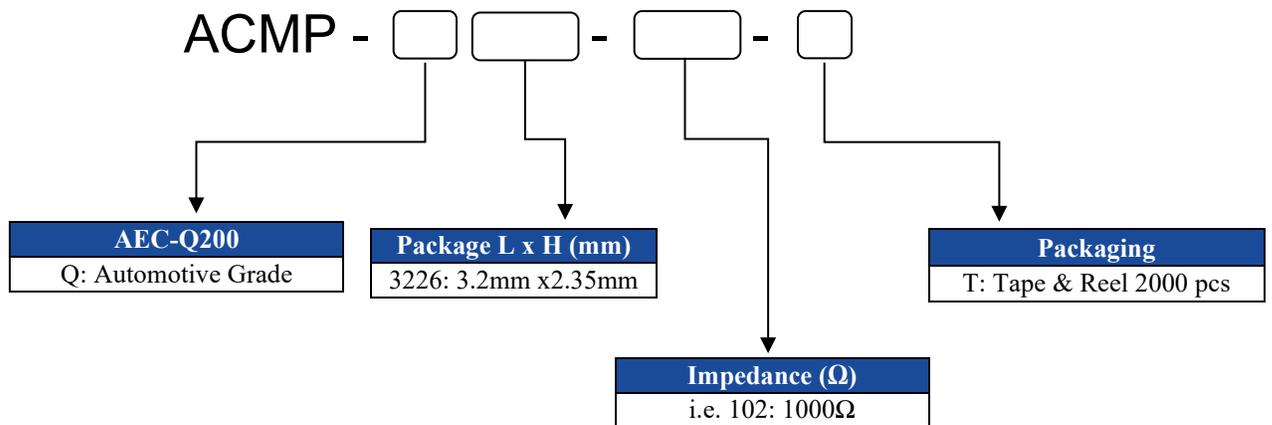


## Materials



	Description	Specification
a	Upper Plate	Ni-Zn Ferrite
b	Core	Ni-Zn Ferrite
c	Wire	Enameled copper wire
d	Electrode	Ag/Ni/Sn

## Part Identification



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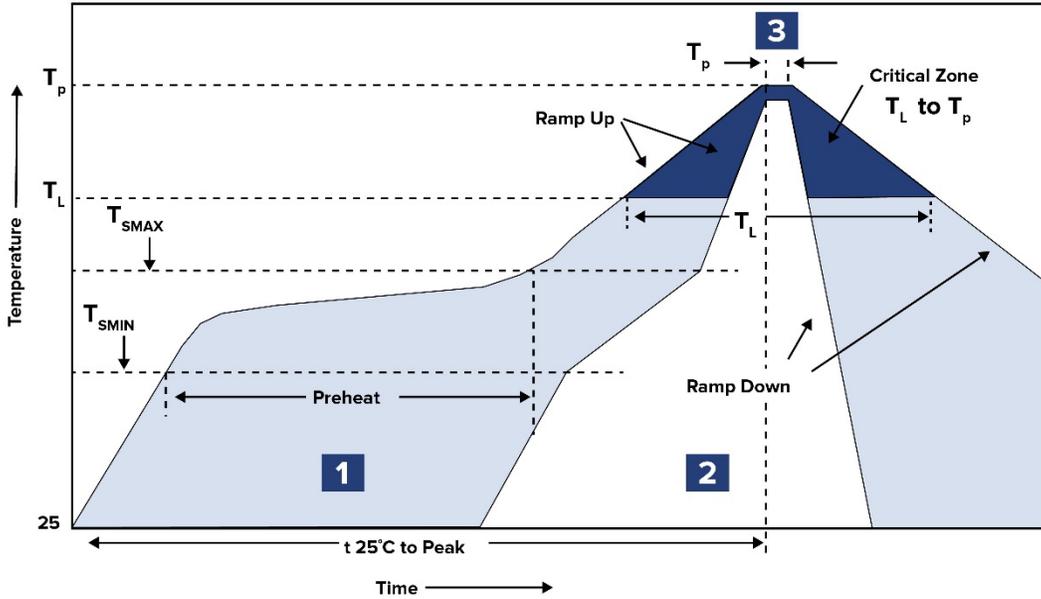


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## Reflow Profile



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 ~ 90 sec.
3	Peak heat	$T_P$ 260°C MAX	10 sec. MAX

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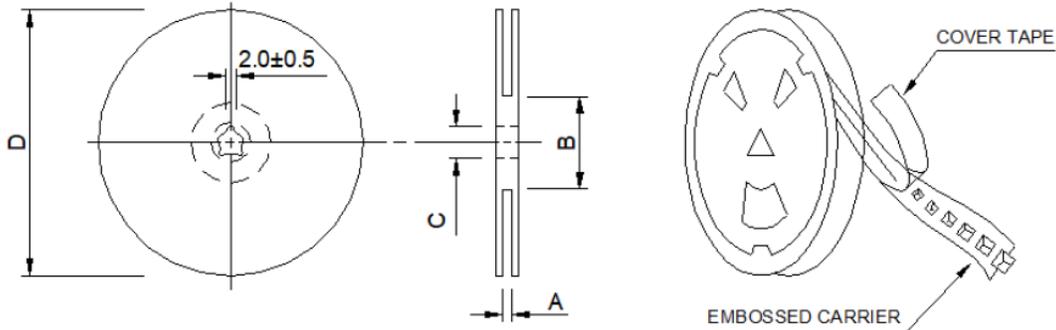
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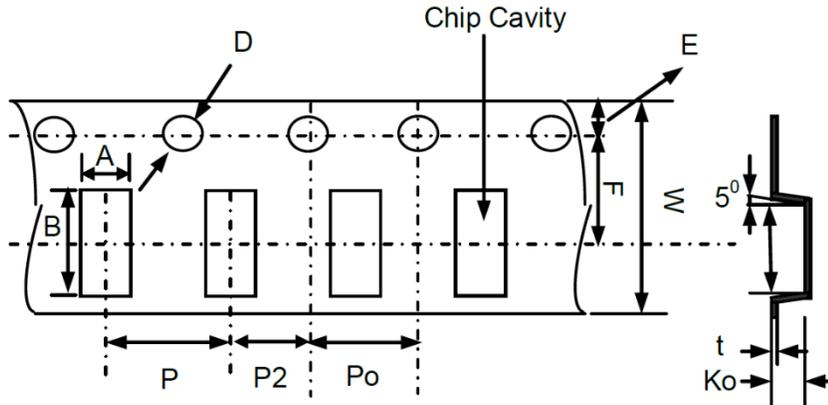
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## Packaging

**Tape & Reel: 2000pcs/reel**



Series	A	B	C	D
ACMP-Q3226	13.0 ±0.5	100.0 ±2.0	13.0 ±0.2	330



W	P	E	F	P0	P2	Bo	Ao	Ko	D	t
12.0 ±0.10	8.0 ±0.10	1.75 ±0.10	5.55 ±0.10	4.0 ±0.10	2.0 ±0.10	3.6 ±0.10	2.9 ±0.10	2.6 ±0.10	1.5 +0.10/-0	0.3 ±0.05

**Dimensions: mm**

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