



# Automotive Power Common Mode Chokes

ACMP-Q2012

Request Samples



Check Inventory



2.0 x 1.2 x 1.2 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 0.4A

## 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 (M $\Omega$ )
		Max	Max	Max	Min
ACMP-Q2012-670	67	250	0.4	50	10
ACMP-Q2012-900	90	300	0.4	50	10
ACMP-Q2012-121	120	300	0.4	50	10
ACMP-Q2012-161	160	350	0.35	50	10
ACMP-Q2012-181	180	350	0.35	50	10
ACMP-Q2012-201	200	400	0.3	50	10
ACMP-Q2012-221	220	400	0.3	50	10
ACMP-Q2012-261	260	400	0.3	50	10
ACMP-Q2012-361	360	500	0.3	50	10

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

**ACMP-Q2012 is AEC-Q200 Automotive certified**

**ACMP-Q2012 Series is RoHS Compliant and Pb free**

**Operating Temperature: -55°C to +125°C (Including self-heating)**

**Storage Temperature (on PCB): -55°C to +125°C**

**Storage (in original packaging): <40°C, <60% RH**



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



# Automotive Power Common Mode Chokes

**ACMP-Q2012**

Request Samples



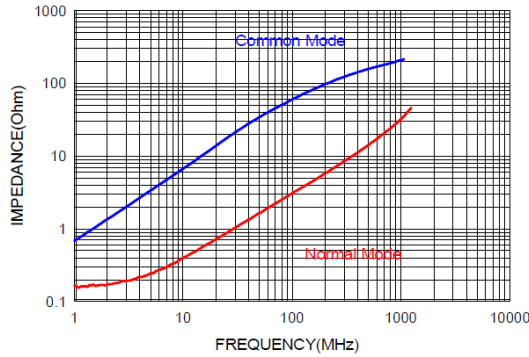
Check Inventory



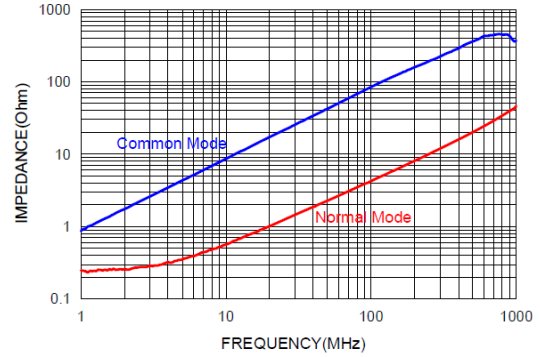
**2.0 x 1.2 x 1.2 mm**  
**RoHS/RoHS II Compliant**  
**MSL Level = 1**

## Electrical Specifications

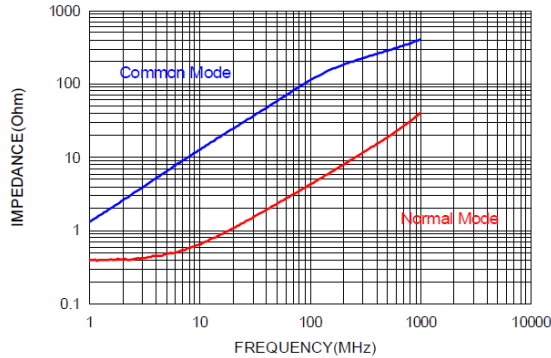
**ACMP-Q2012-670-T**



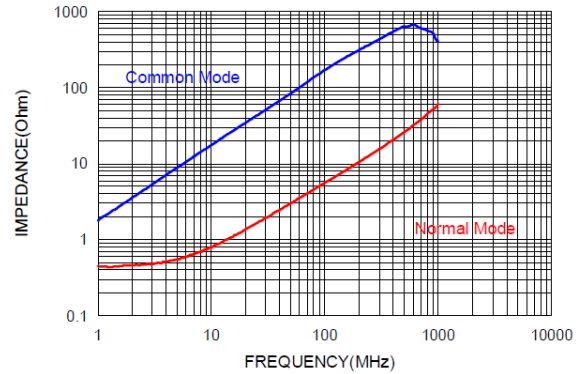
**ACMP-Q2012-900-T**



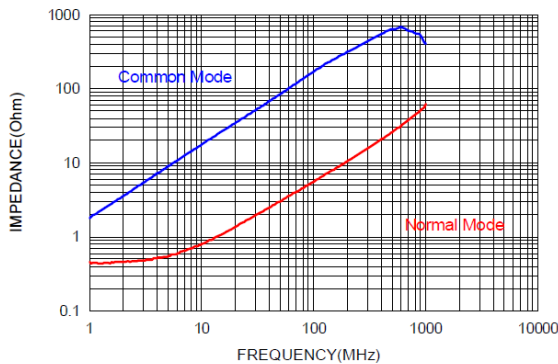
**ACMP-Q2012-121-T**



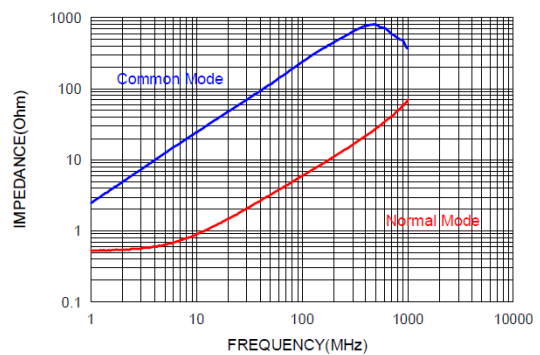
**ACMP-Q2012-161-T**



**ACMP-Q2012-181-T**



**ACMP-Q2012-201-T**



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](http://www.abracon.com)

**REVISION Initial Release**  
**3/31/2022**

ABRACON IS  
ISO9001-2015  
CERTIFIED



# Automotive Power Common Mode Chokes

**ACMP-Q2012**

Request Samples



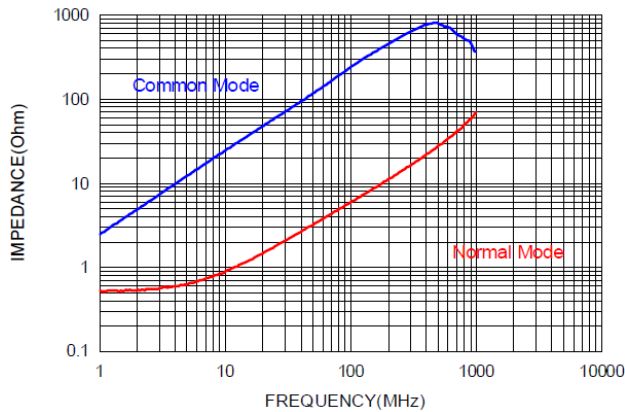
Check Inventory



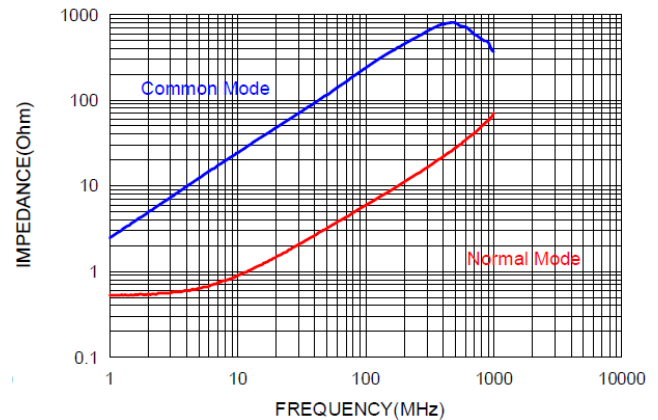
2.0 x 1.2 x 1.2 mm  
RoHS/RoHS II Compliant  
MSL Level = 1

## Electrical Specifications

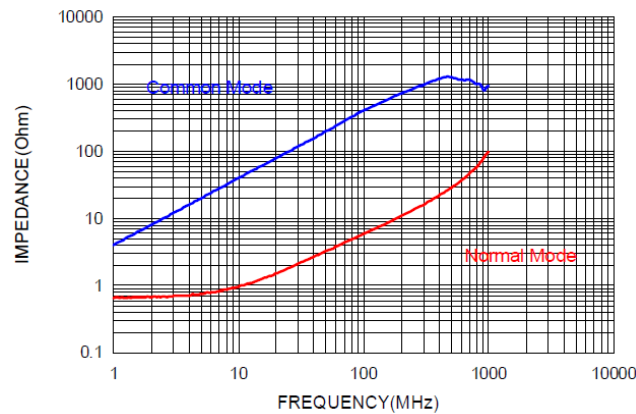
**ACMP-Q2012-221-T**



**ACMP-Q2012-261-T**



**ACMP-Q2012-361-T**



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](http://www.abracon.com)

**REVISION Initial Release**  
3/31/2022

ABRACON IS  
ISO9001-2015  
CERTIFIED



# Automotive Power Common Mode Chokes

ACMP-Q2012

Request Samples

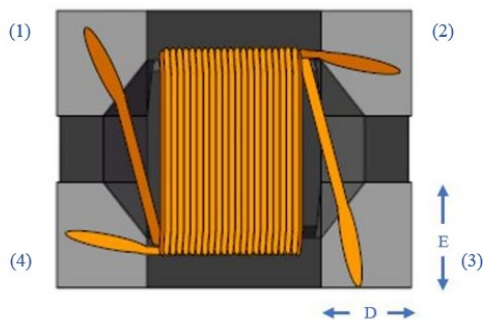
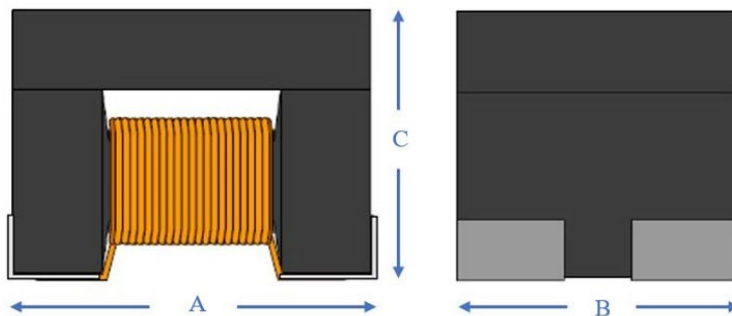


Check Inventory

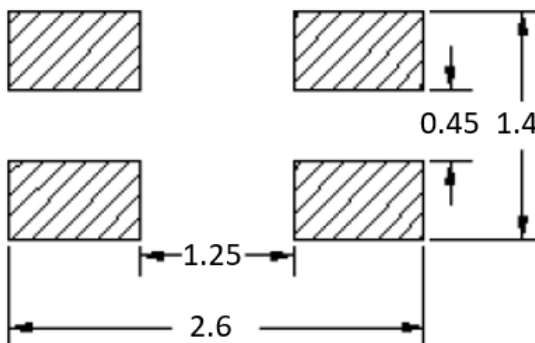


2.0 x 1.2 x 1.2 mm  
**RoHS/RoHS II Compliant**  
 MSL Level = 1

## Mechanical Specifications



A	B	C	D	E
2.0 ±0.2	1.2 ±0.2	1.2 ±0.2	0.50 ±0.1	0.51 ±0.1



## Recommended Layout

Dimensions: mm



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](http://www.abracon.com)

REVISION Initial Release  
 3/31/2022

ABRACON IS  
 ISO9001-2015  
 CERTIFIED



# Automotive Power Common Mode Chokes

**ACMP-Q2012**

Request Samples

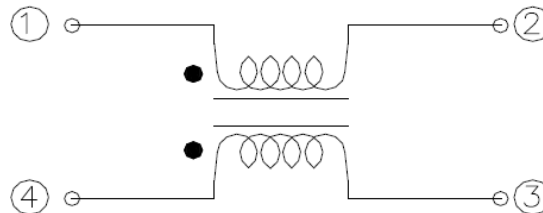


Check Inventory

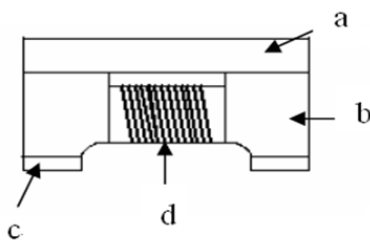


2.0 x 1.2 x 1.2 mm  
**RoHS/RoHS II Compliant**  
 MSL Level = 1

## Schematic

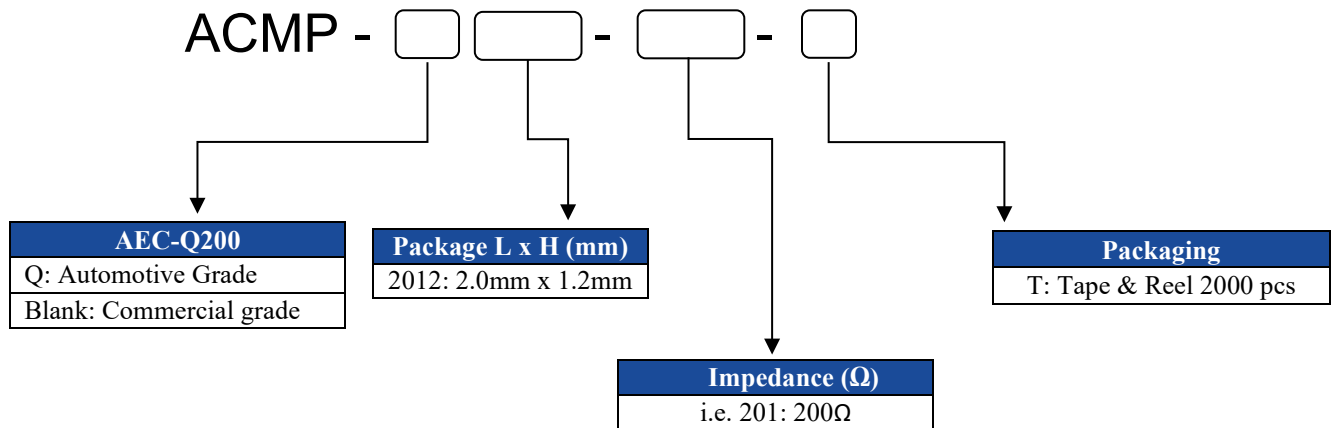


## Materials



No.	Description	Specification
a	Upper Plate	Ferrite
b	Core	Ferrite Core
c	Electrode	Ag/Ni/Sn
d	Wire	Enameled Copper Wire

## Part Identification





# Automotive Power Common Mode Chokes

ACMP-Q2012

Request Samples

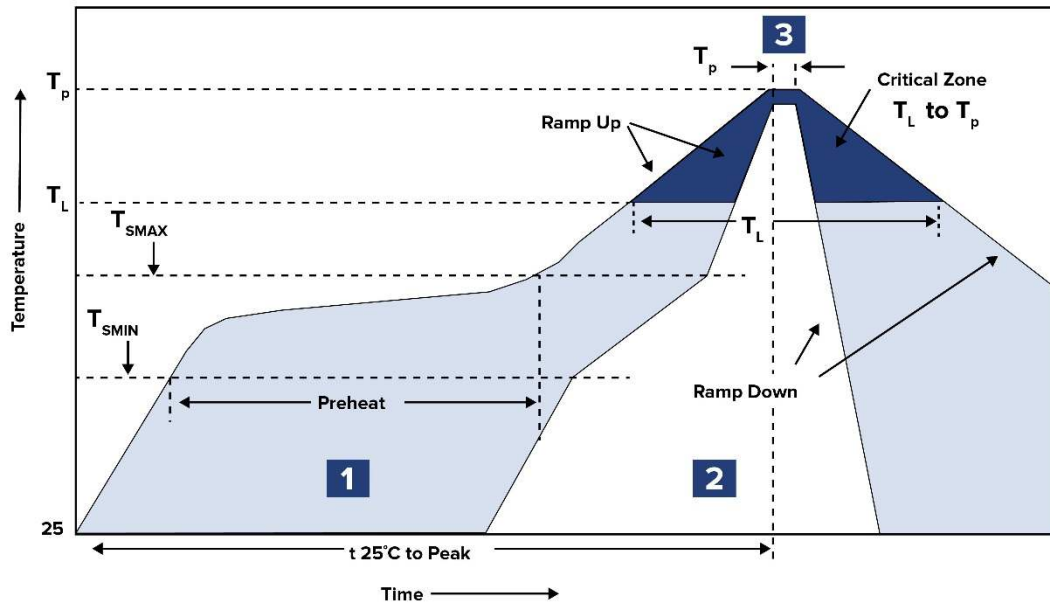


Check Inventory



2.0 x 1.2 x 1.2 mm  
 RoHS/RoHS II Compliant  
 MSL Level = 1

## Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 180 sec.
2	Reflow	$T_L$ 217°C	60 ~ 150 sec.
3	Peak heat	$T_p$ 260°C MAX	10 sec. MAX



# Automotive Power Common Mode Chokes

**ACMP-Q2012**

Request Samples



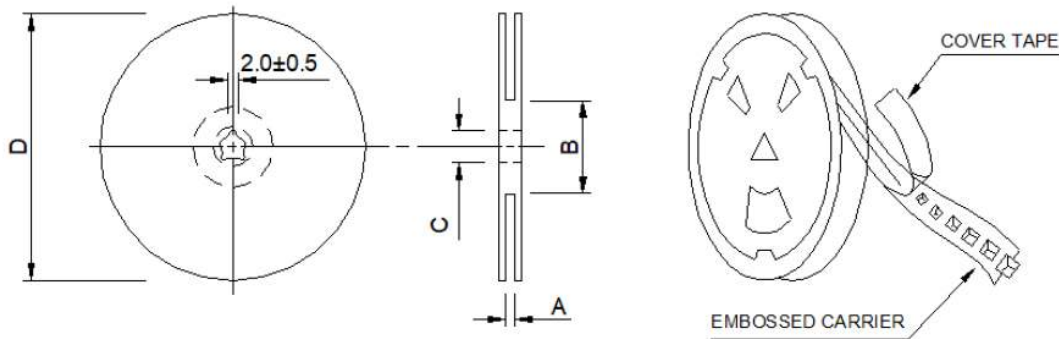
Check Inventory



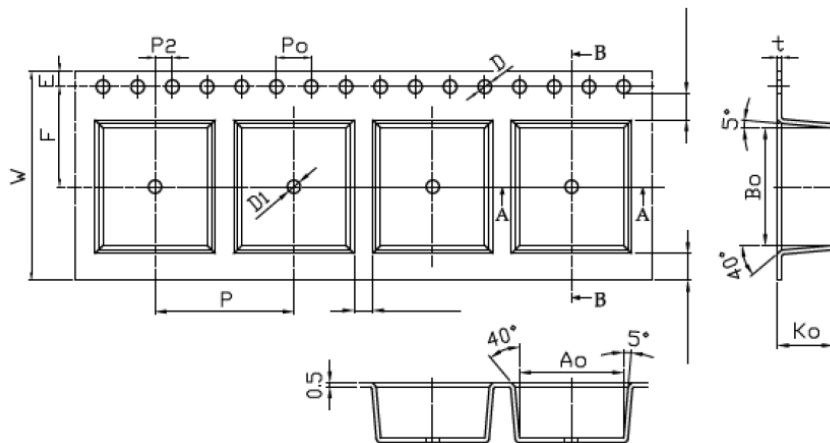
**2.0 x 1.2 x 1.2 mm**  
**RoHS/RoHS II Compliant**  
**MSL Level = 1**

## Packaging

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



Series	A	B	C	D
ACMP-Q2012	9.0 ±0.5	60.0 ±2.0	13.5 ±0.5	178.0 ±2.0



W	P	E	F	P0	P2	B0	A0	K0	D	D1	t
8.0 ±0.10	4 ±0.10	1.75 ±0.10	3.5 ±0.10	4.0 ±0.10	2.0 ±0.10	2.35 ±0.10	1.5 ±0.10	1.45 ±0.10	1.5 +0.10/-0	1.0 ±0.10	0.28 ±0.05

Dimensions: mm

**ATTENTION:** Abracon LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLC is required. Please contact Abracon LLC for more information.



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](http://www.abracon.com)

**REVISION Initial Release**  
**3/31/2022**

ABRACON IS  
 ISO9001-2015  
 CERTIFIED