

# Power Common Mode Chokes



## ACMP-5045 Series

Request Samples



Check Inventory



5.0 x 4.8 x 4.5 mm  
RoHS/RoHS II Compliant  
MSL Level = 1

### Features

- Commercial Grade
- Excellent impedance characteristics
- Rated current up to 5A
- Low DCR

### Applications

- DC power line common mode noise suppression.
- Switch Mode Power Supplies and regulators
- Variable Frequency Drives
- AC/DC power rectifiers

### Electrical Specifications

Part Number	Impedance ( $\Omega$ ) @100MHz	DCR (m $\Omega$ )	Rated Current (A)	Rated Voltage (Vdc)	Insulation Resistance (M $\Omega$ )
	Typ.	Max	Typ.	Max	Min
ACMP-5045-191	190	20	5.0	50	10
ACMP-5045-351	350	40	2.0	50	10
ACMP-5045-501	500	50	1.8	50	10
ACMP-5045-801	800	50	1.5	50	10
ACMP-5045-102	1000	60	1.5	50	10
ACMP-5045-152	1500	100	1.0	50	10
ACMP-5045-302	3000	300	0.5	50	10

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

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

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

**ACMP-5045 Series is RoHS Compliant and Pb free.**

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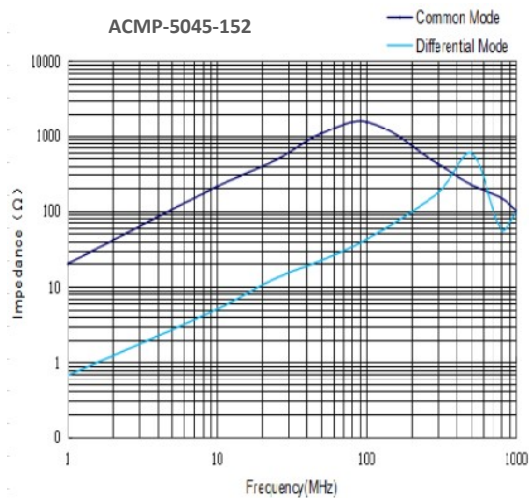
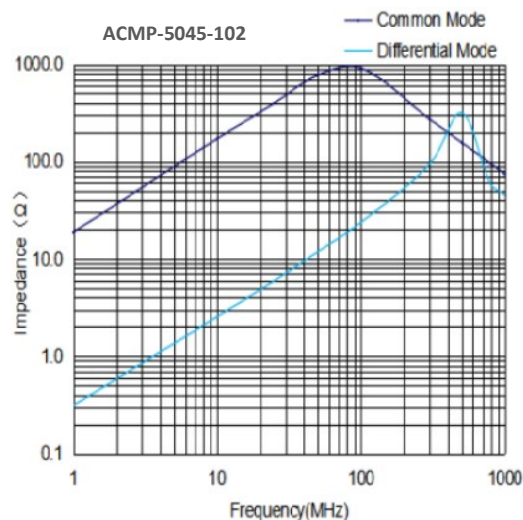
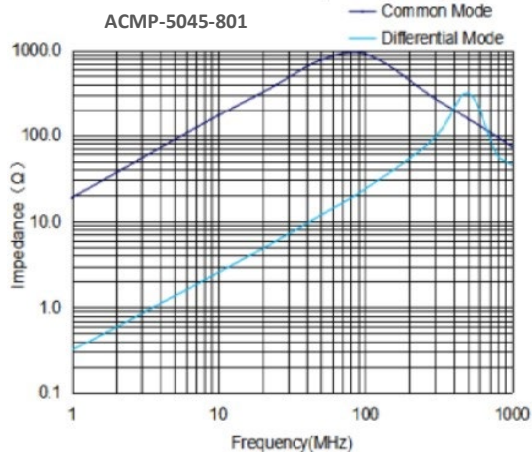
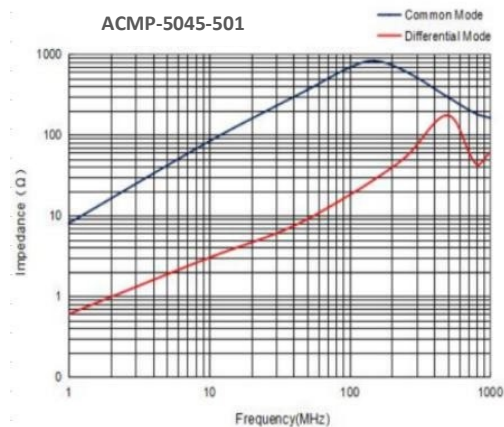
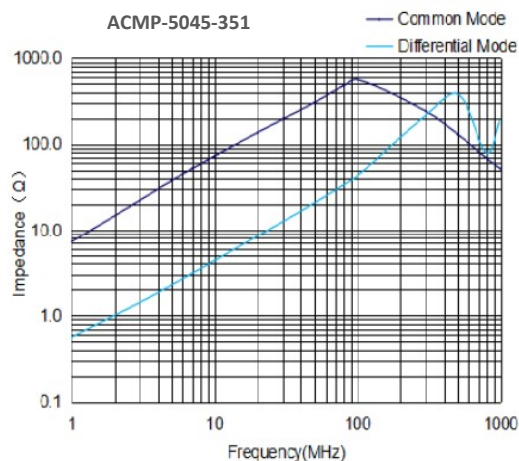
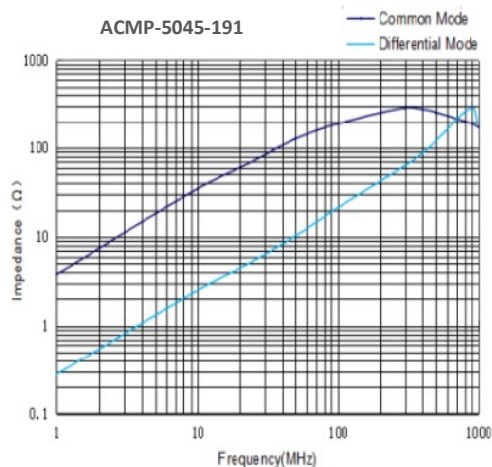


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### Electrical Specifications (Cont'd)



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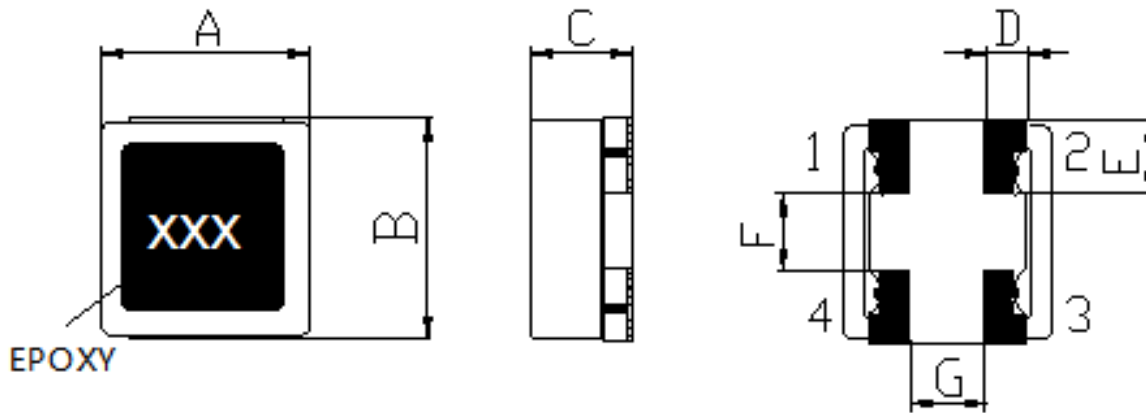


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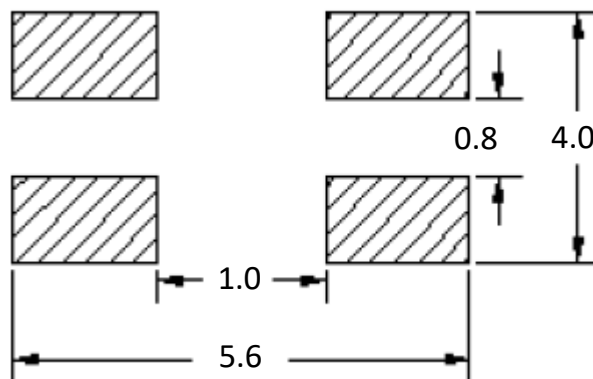


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### Mechanical Specifications



A	B	C	D	E	F	G
4.8 ± 0.3	5.0 ± 0.3	4.5 MAX	1.35 Ref.	1.9 Ref	1.2 Ref.	0.8 Ref.



### Recommended Layout

Dimensions: mm

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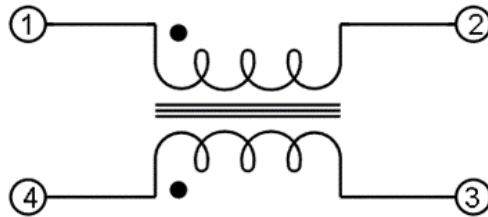


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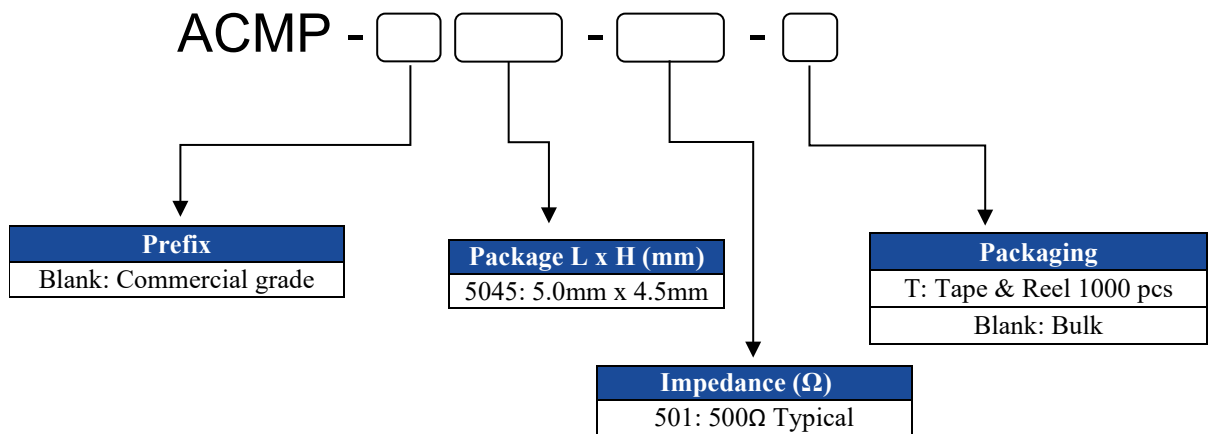
### Schematic



### Materials

Description	Specification
Core	Ferrite core
Wire	Enameled copper wire
Base	Plastic
Adhesive	Epoxy resin
Terminal	Sn/Cu
Ink	White

### Part Identification



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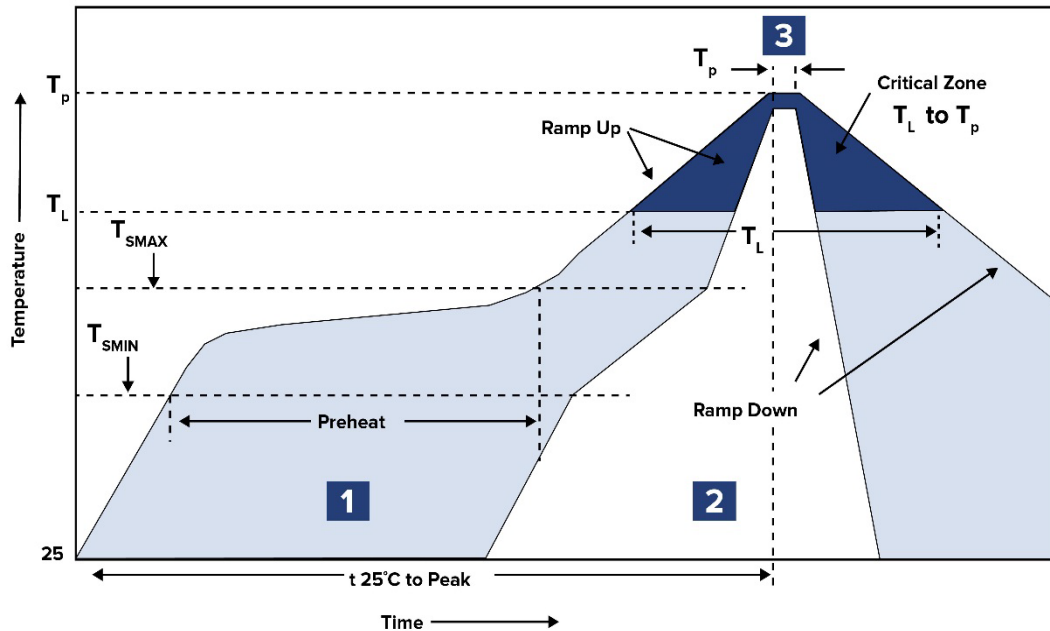


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### Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 190°C	60 ~ 120 sec.
2	Reflow	$T_L$ 240°C	20 ~ 40 sec.
3	Peak heat	$T_p$ 255°C Max.	5 sec. Max

1~2 °C/Sec. Ramp

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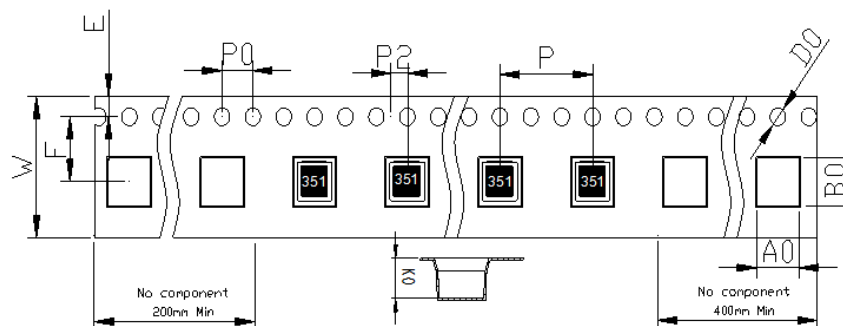
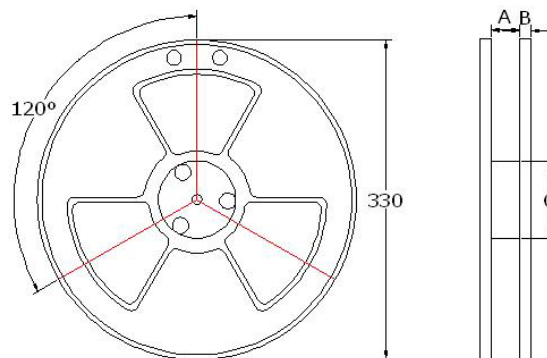
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## Packaging

Tape & Reel: 1000pcs/reel



W	P	P0	P2	D0	E	F	A0	B0	K0
16 ± 0.30	12 ± 0.10	4.0 ± 0.10	2.0 ± 0.10	1.5 ± 0.10	1.75 ± 0.10	7.5 ± 0.10	5.4 ± 0.10	5.4 ± 0.10	4.7 ± 0.10

Dimensions: mm

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