Power Common Mode Chokes



ACMP-5025 Series

Request Samples Check Inventory

5.0 x 4.8 x 2.5 mm
RoHS/RoHS II Compliant
MSL Level = 1

Features

- Commercial Grade
- Excellent impedance characteristics
- Rated current up to 6.5A
- Extremely 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 (Ω) @100MHz	DCR (mΩ)	Rated Current (A)	Rated Voltage (Vdc)	Withstand Voltage (V)	Insulation Resistance (MΩ)
	Typ.	±40%	Typ.	Max.	VDC	Min.
ACMP-5025-101	100	9	6.5	50	125	10
ACMP-5025-251	250	14	5.0	50	125	10
ACMP-5025-501	500	19	4.0	50	125	10
ACMP-5025-102	1000	24	2.0	50	125	10
ACMP-5025-142	1400	40	1.5	50	125	10
ACMP-5025-152	1500	47	1.5	50	125	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-5025 Series is RoHS Compliant and Pb free.

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Phone: 512-371-6159 | Fax: 512-351-8858
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ABRACON IS ISO9001-2015 CERTIFIED

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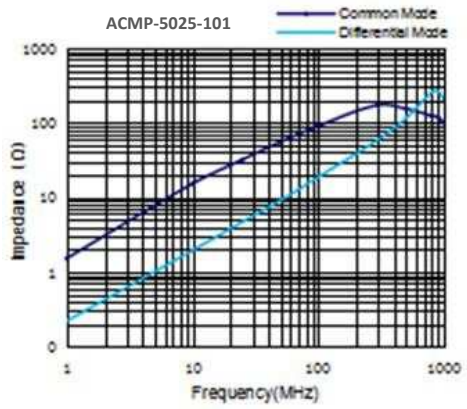


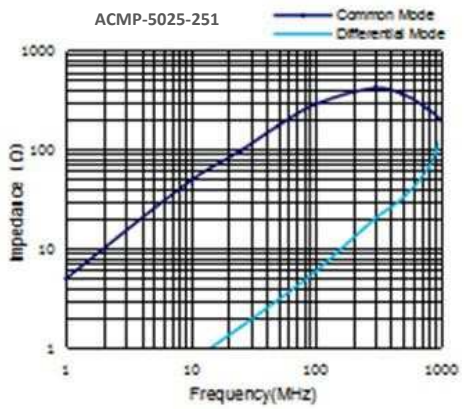
ACMP-5025 Series

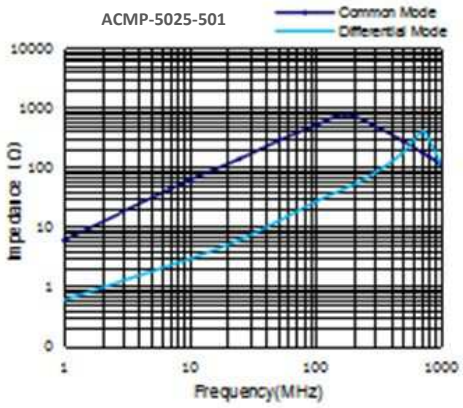
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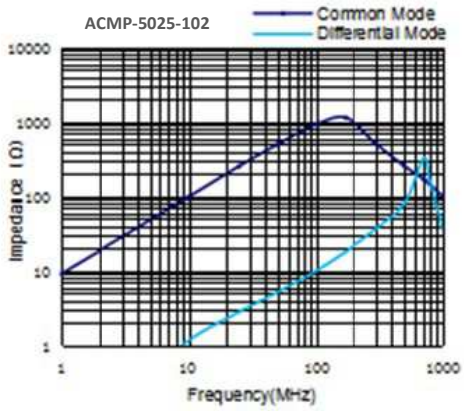
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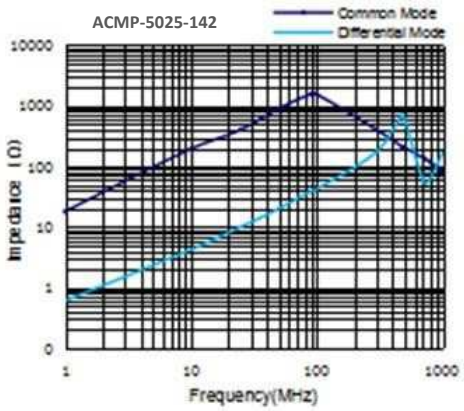
Electrical Specifications (Cont'd)











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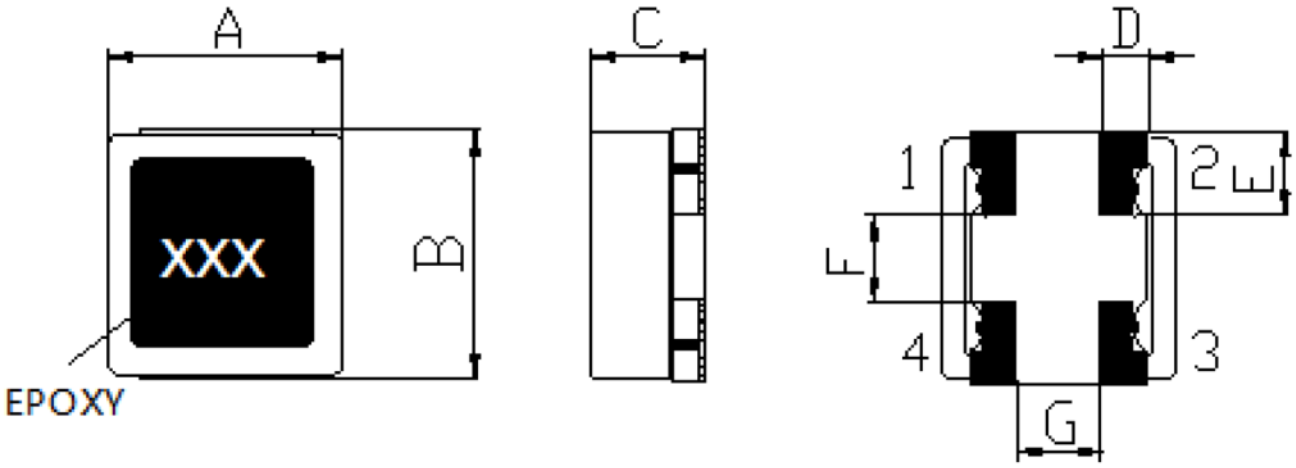


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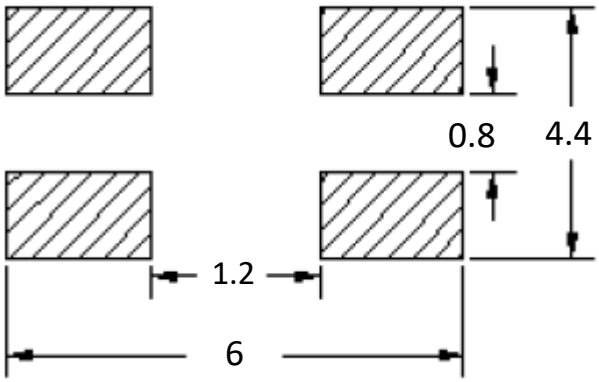
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Mechanical Specifications



A	B	C	D	E	F	G
4.8 ± 0.3	5.0 ± 0.3	2.5 MAX	1.25 Ref.	1.7 Ref	1.6 Ref.	1.0 Ref.



Recommended Layout

Dimensions: mm

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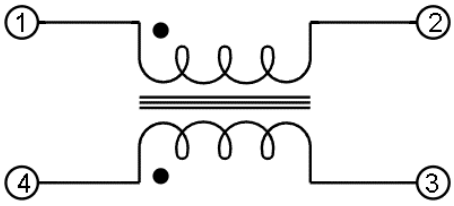


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Schematic



Materials

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

Part Identification

ACMP - □ □ - □ - □

Prefix
Blank: Commercial grade

Package L x H (mm)
5025: 5.0mm x 2.5mm

Impedance (Ω)
501: 500Ω Typical

Packaging
T: Tape & Reel 2500 pcs
Blank: Bulk

Part Marking

Ink: Ink color may be black or white

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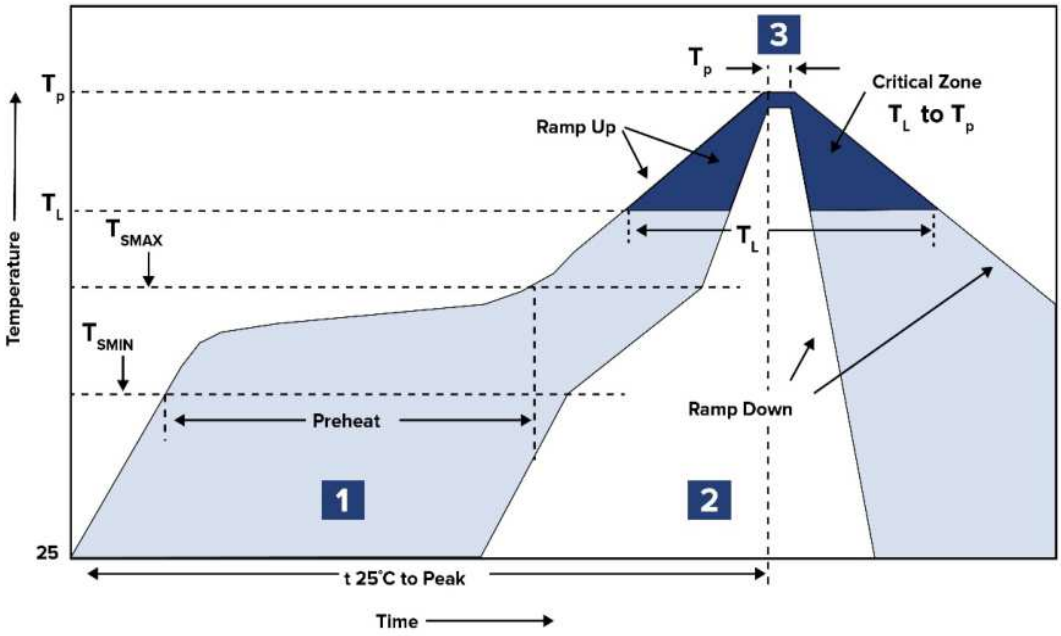


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Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	T_{SMIN} ~ 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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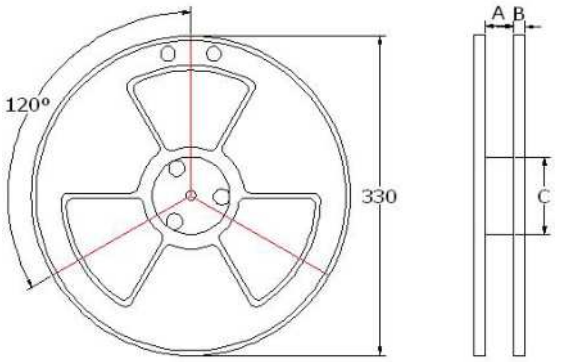
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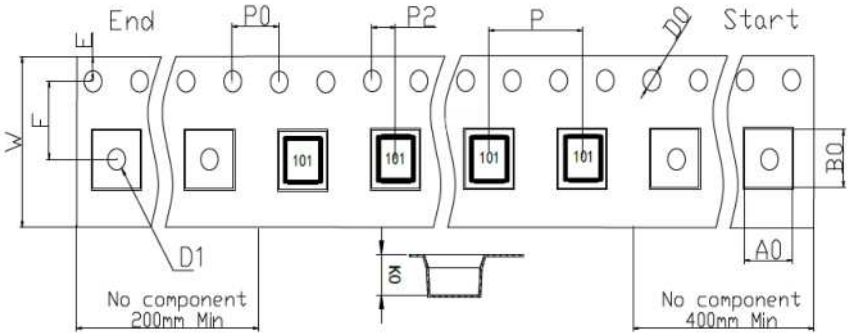
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Packaging

Tape & Reel: 2500pcs/reel





W	P	P0	P2	D0	E	F	A0	B0	K0
12 ± 0.30	8 ± 0.10	4.0 ± 0.10	2.0 ± 0.10	1.5 ± 0.10	1.75 ± 0.10	5.5 ± 0.10	5.4 ± 0.10	5.4 ± 0.10	2.8 ± 0.10

Dimensions: mm

ATTENTION: Abracon LLC's products are Commercial-Off-The-Shelf (COTS, which are designed, intended and validated for use in commercial, industrial and automotive applications. The customer is responsible for testing and verifying the performance of an Abracon solution to meet their system-level requirements.

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