

Power Common Mode Chokes



ACMP-7038 Series

Request Samples



Check Inventory



7.0 x 6.0 x 3.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

Features

- Commercial Grade
- PPAP ready and supported
- Excellent impedance characteristics
- Rated current up to 15A
- 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 (m Ω) | Rated Current (A) | Rated Voltage (Vdc) | Insulation Resistance (M Ω) |
|---------------|--------------------------------|------|-------------------|-------------------|---------------------|-------------------------------------|
| | Min | Typ. | Max | Typ. | Max | Min |
| ACMP-7038-700 | 40 | 70 | 5 | 15 | 125 | 10 |
| ACMP-7038-141 | 100 | 140 | 10 | 9 | 125 | 10 |
| ACMP-7038-301 | 225 | 300 | 10 | 5 | 125 | 10 |
| ACMP-7038-351 | 275 | 350 | 10 | 5 | 125 | 10 |
| ACMP-7038-701 | 500 | 700 | 15 | 4 | 125 | 10 |
| ACMP-7038-102 | 800 | 1020 | 17 | 3 | 125 | 10 |
| ACMP-7038-132 | 910 | 1300 | 21 | 2.5 | 125 | 10 |
| ACMP-7038-222 | 1700 | 2200 | 50 | 1.2 | 125 | 10 |
| ACMP-7038-272 | 2000 | 2700 | 63 | 1.0 | 125 | 10 |
| ACMP-7038-302 | 2500 | 3000 | 75 | 0.9 | 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-7038 Series is RoHS Compliant and Pb free



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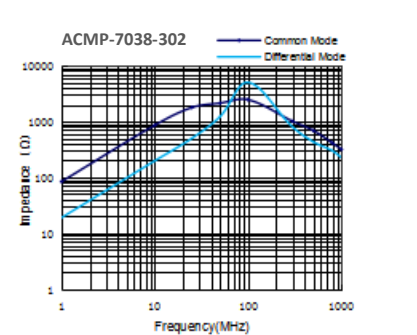
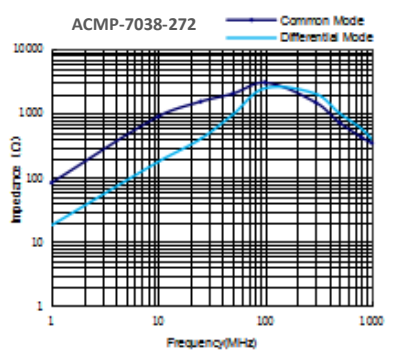
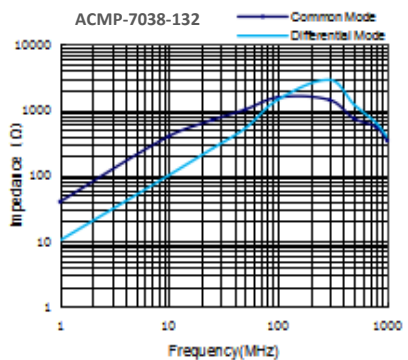
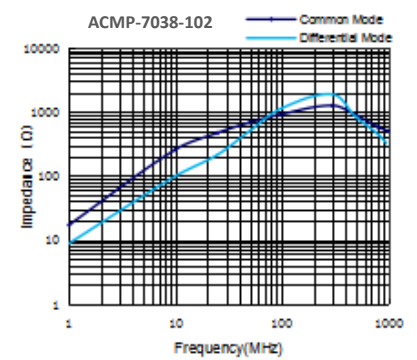
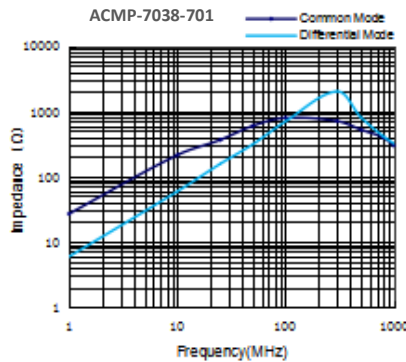
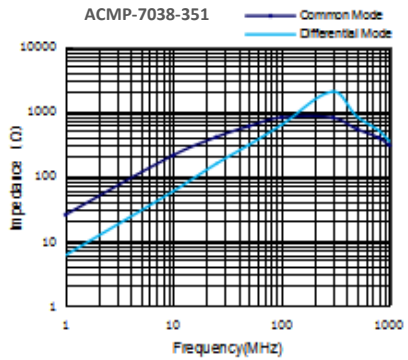
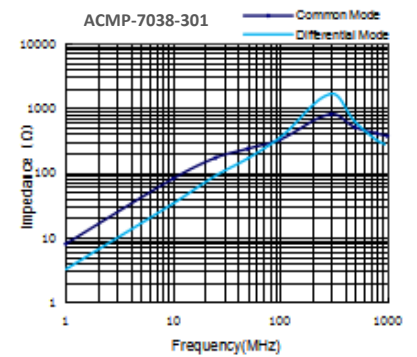
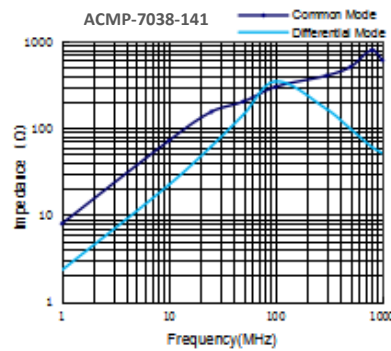
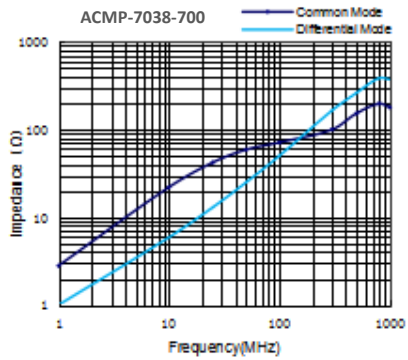


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Electrical Specifications (Cont'd)



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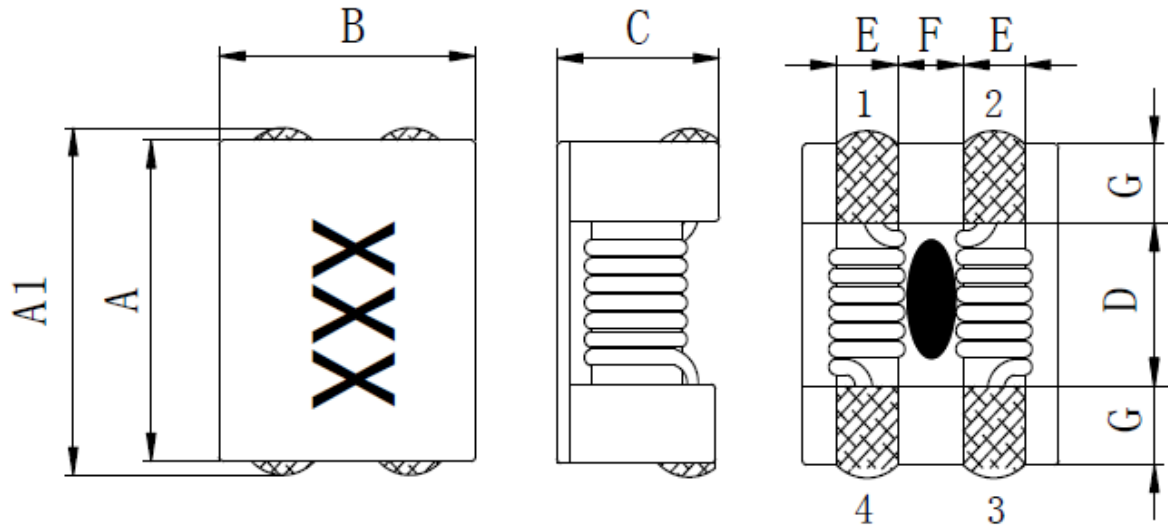


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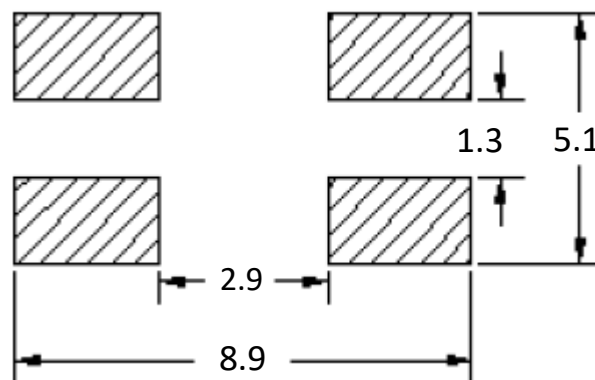


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Mechanical Specifications



| A | A1 | B | C | D | E | F | G |
|-----------|-----------|-----------|---------|----------|----------|----------|----------|
| 7.0 ± 0.5 | 7.5 ± 0.6 | 6.0 ± 0.5 | 3.8 MAX | 3.5 Ref. | 1.5 Ref. | 1.5 Ref. | 1.7 Ref. |



Recommended Layout

Dimensions: mm

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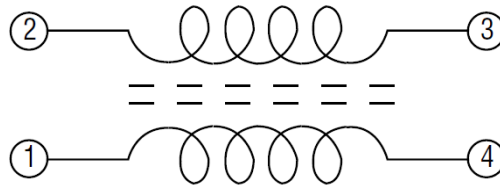


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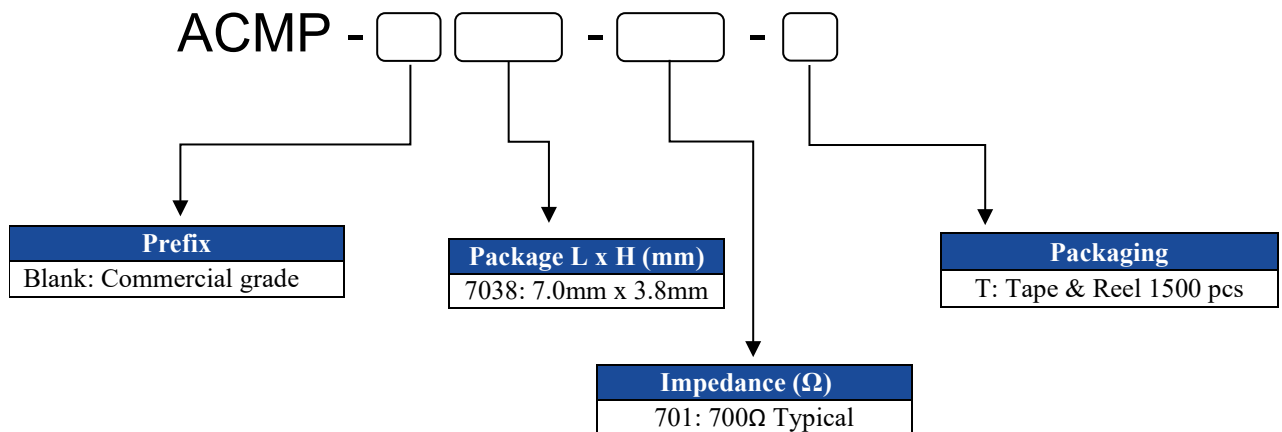
Schematic



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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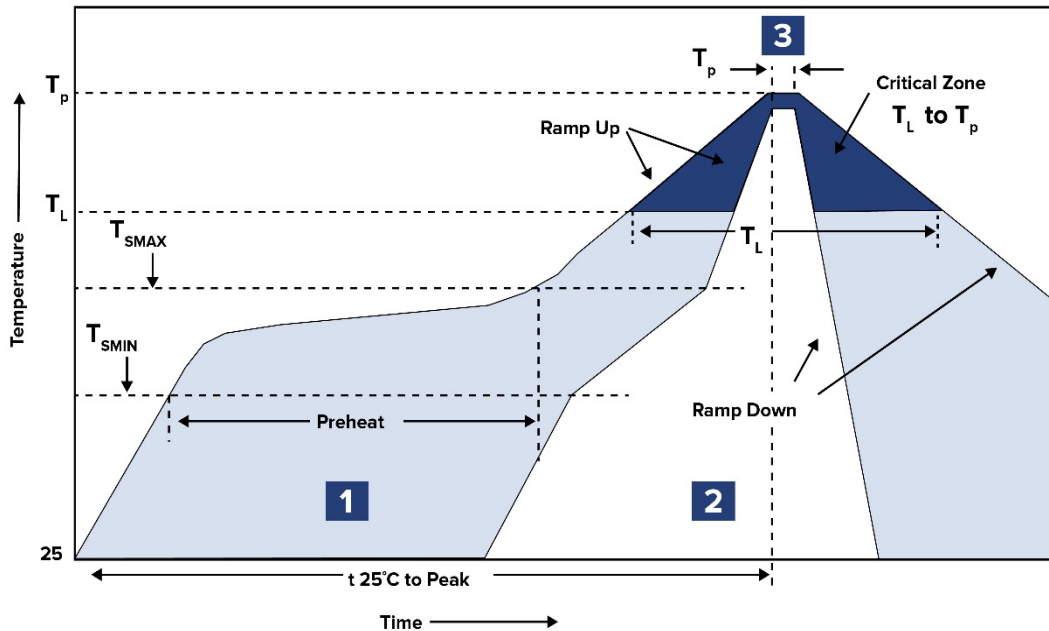


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Reflow Profile



| 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 260°C Max. | 5 sec. Max |

1~2 °C/Sec. Ramp

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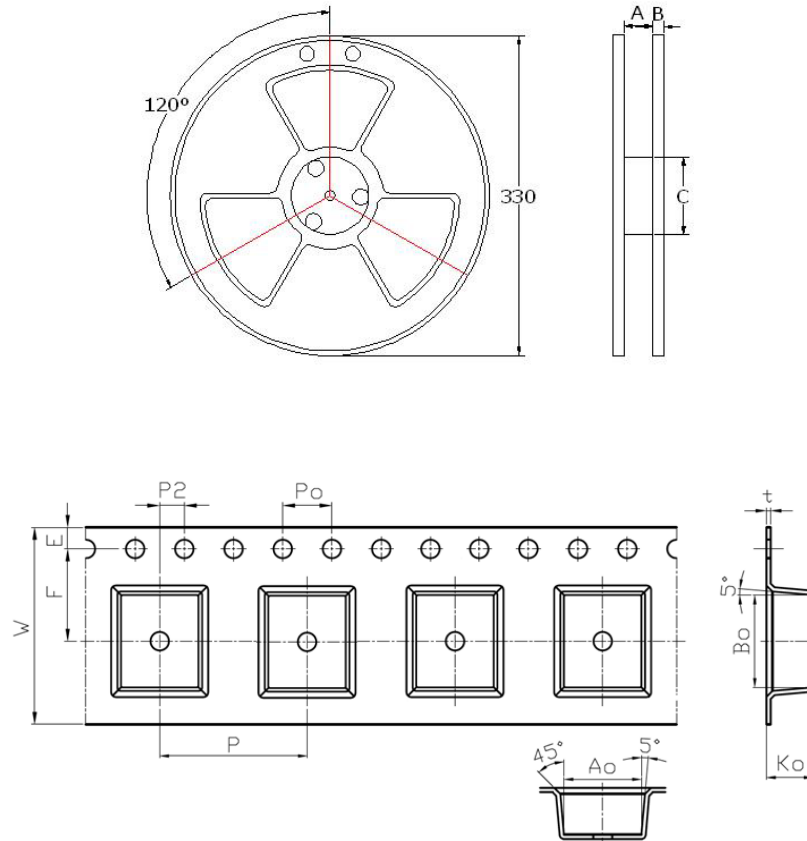
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Packing

Tape & Reel: 1500pcs/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 | 6.35 ± 0.10 | 7.85 ± 0.10 | 3.8 ± 0.10 |

Dimensions: mm

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