Common mode filters
For power line
ACM series

**ACM7060 type**

**FEATURES**
- Chip common mode filter for large current applications.
- For each series, there is excellent common mode impedance and noise suppression in a compact case.
- Compatible with high-density portable devices, which are always being made smaller and lighter, because the height has been reduced.
- Operating temperature range: −40 to +85°C

**APPLICATION**
- Power line noise countermeasure for various electronic equipment.
- Noise countermeasure for adapter lines and battery lines or larger electronic equipment such as note PCs and word processors.

**PART NUMBER CONSTRUCTION**

<table>
<thead>
<tr>
<th>ACM</th>
<th>7060</th>
<th>-</th>
<th>301</th>
<th>-</th>
<th>2PL</th>
<th>-</th>
<th>TL</th>
<th>01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series name</td>
<td>L×W×H dimensions</td>
<td>Impedance</td>
<td>Number of lines</td>
<td>Packaging style</td>
<td>Internal code</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACM</td>
<td>7.0×6.0×3.5 mm</td>
<td>(Ω) at 100MHz</td>
<td>1 line</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CHARACTERISTICS SPECIFICATION TABLE**

<table>
<thead>
<tr>
<th>Common mode impedance [100MHz]</th>
<th>DC resistance [1 line]</th>
<th>Rated current (A)max.</th>
<th>Insulation resistance (MΩ)min.</th>
<th>Rated voltage (V)max.</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Ω)min.</td>
<td>(Ω)typ.</td>
<td>(mΩ)max.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>225</td>
<td>300</td>
<td>10</td>
<td>5</td>
<td>10</td>
<td>80</td>
</tr>
<tr>
<td>500</td>
<td>700</td>
<td>15</td>
<td>4</td>
<td>10</td>
<td>80</td>
</tr>
</tbody>
</table>

**Measurement equipment**

<table>
<thead>
<tr>
<th>Measurement item</th>
<th>Product No.</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common mode impedance</td>
<td>4991A</td>
<td>Keysight Technologies</td>
</tr>
<tr>
<td>DC resistance</td>
<td>4338A</td>
<td>Keysight Technologies</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>4339A</td>
<td>Keysight Technologies</td>
</tr>
</tbody>
</table>

* Equivalent measurement equipment may be used.

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⚠️ Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.
ACM7060 type

**IMPEDEANCE VS. FREQUENCY CHARACTERISTICS**

![Graph showing impedance vs. frequency for ACM7060 type]

**Measurement equipment**

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<tr>
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<td>Keysight Technologies</td>
</tr>
</tbody>
</table>

* Equivalent measurement equipment may be used.*
ACM7060 type

■ SHAPE & DIMENSIONS

Dimensions in mm

■ RECOMMENDED LAND PATTERN

Dimensions in mm

■ CIRCUIT DIAGRAM

■ RECOMMENDED REFLOW PROFILE

■ PACKAGING STYLE

■ REEL DIMENSIONS

Dimensions in mm

■ TAPE DIMENSIONS

Dimensions in mm

<table>
<thead>
<tr>
<th>Type</th>
<th>A</th>
<th>B</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACM7060</td>
<td>6.6±0.1</td>
<td>7.6±0.1</td>
<td>3.6±0.1</td>
</tr>
</tbody>
</table>

■ PACKAGE QUANTITY

| Package quantity | 1500 pcs/reel |

■ TEMPERATURE RANGE, INDIVIDUAL WEIGHT

<table>
<thead>
<tr>
<th>Operating temperature range</th>
<th>Storage temperature range*</th>
<th>Individual weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>−40 to +85 °C</td>
<td>−40 to +85 °C</td>
<td>0.35 g</td>
</tr>
</tbody>
</table>

* The storage temperature range is for after the assembly.
REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using this product.

REMINDERS

- The storage period is less than 12 months. Be sure to follow the storage conditions (temperature: 5 to 40°C, humidity: 10 to 75% RH or less).
  - If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
- Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
- Before soldering, be sure to preheat components.
  - The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications.
  - If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.
- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Carefully lay out the coil for the circuit board design of the non-magnetic shield type.
  - A malfunction may occur due to magnetic interference.
- Use a wrist band to discharge static electricity in your body through the grounding wire.
- Do not expose the products to magnets or magnetic fields.
- Do not use for a purpose outside of the contents regulated in the delivery specifications.
- The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.
- The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.
- If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.
  1. Aerospace/aviation equipment
  2. Transportation equipment (cars, electric trains, ships, etc.)
  3. Medical equipment
  4. Power-generation control equipment
  5. Atomic energy-related equipment
  6. Seabed equipment
  7. Transportation control equipment
  8. Public information-processing equipment
  9. Military equipment
  10. Electric heating apparatus, burning equipment
  11. Disaster prevention/crime prevention equipment
  12. Safety equipment
  13. Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.