

Aexit L5352OIV-8366MQ

Aexit 5W 100 Ohm Ceramic Cement Resistor Instruction Manual

1. PRODUCT OVERVIEW

This manual provides essential information for the safe and effective use of Aexit 5W 100 Ohm Ceramic Cement Resistors. These resistors are designed for applications requiring good heat resistance, a low temperature coefficient, high load power, and high insulation capacity. They are commonly used in various electronic equipment, including computers, televisions, appliances, meters, and audio systems.



Figure 1: A group of Aexit 5W 100 Ohm ceramic cement resistors. Each resistor is rectangular, white, and features two metal axial leads extending from its ends. The resistance value '5W100RJ' is printed on the body of some resistors, indicating 5 Watts and 100 Ohms with a 5% tolerance.

2. SPECIFICATIONS

Product Name	Cement Resistor
Brand	Aexit
Model Number	L5352OIV-8366MQ
Body Material	Cement
Power Rating	5W
Resistance	100Ω (Ohms)
Tolerance	± 5% (J)
Body Size (Approx.)	22 x 10 x 9 mm / 0.78" x 0.4" x 0.35" (L*W*H)
Lead Wire Size (Approx.)	69 x 0.7 mm / 2.7" x 0.028" (L*D)
Color	White, Silver Tone Leads
Net Weight (per 10 pieces)	41 g

Package Content	10 x Cement Resistors
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3. SETUP AND INSTALLATION

Follow these general guidelines for installing your Aexit cement resistors:

- Identify Correct Resistor:** Verify the resistance value (100 Ohms) and power rating (5W) match your circuit requirements.
- Circuit Placement:** Ensure the resistor is placed in the correct location within your electronic circuit diagram.
- Lead Preparation:** Bend the axial leads carefully to fit the mounting holes on your PCB or breadboard. Avoid sharp bends near the resistor body.
- Soldering:** When soldering, use appropriate soldering techniques to ensure a secure and reliable connection. Avoid excessive heat, which can damage the resistor or surrounding components.
- Heat Dissipation:** For high-power applications, ensure adequate ventilation or heat sinking is provided around the resistor to prevent overheating.

4. OPERATING INSTRUCTIONS

Aexit cement resistors are passive components designed to limit current and dissipate power in electronic circuits. Observe the following during operation:

- Voltage and Current Limits:** Do not exceed the maximum voltage or current that would result in power dissipation greater than 5W. Exceeding this limit can cause the resistor to overheat and fail.
- Temperature:** These resistors are designed for good heat resistance, but prolonged operation at maximum power in an enclosed space without ventilation can still lead to high temperatures.
- Environmental Conditions:** Operate the resistors within typical electronic component environmental conditions (e.g., avoid extreme humidity or corrosive atmospheres).

5. MAINTENANCE

Cement resistors generally require minimal maintenance. However, periodic inspection can help ensure long-term reliability:

- Visual Inspection:** Periodically check the resistor for any signs of physical damage, cracks, discoloration, or burn marks, which may indicate overheating or failure.
- Cleanliness:** Ensure the resistor and surrounding area are free from dust and debris, which can impede heat dissipation. Use a soft brush or compressed air for cleaning if necessary.
- Connection Integrity:** Verify that the soldered connections remain secure and free from corrosion.

6. TROUBLESHOOTING

If you encounter issues with your Aexit cement resistors, consider the following:

- Resistor Not Functioning:**
 - Check for proper soldering and secure connections.
 - Verify the correct resistance value was installed.
 - Measure the resistance with a multimeter to confirm it is within tolerance.
- Overheating:**
 - Ensure the power dissipated by the resistor does not exceed its 5W rating. Recalculate power ($P = I^2R$ or $P = V^2/R$).
 - Check for adequate ventilation around the resistor.

- Confirm the circuit design is correct and not placing excessive load on the resistor.
- **Discoloration or Burning:** This typically indicates that the resistor has been subjected to excessive power or heat. Replace the resistor and re-evaluate the circuit design to prevent recurrence.

7. WARRANTY AND SUPPORT

Aexit cement resistors are manufactured to high standards. While specific warranty details are not provided in this manual, for any product-related inquiries, technical support, or concerns, please contact your retailer or the manufacturer directly. Keep your purchase receipt for any potential warranty claims.

For further assistance, refer to the contact information provided by your point of purchase or the official Aexit website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question