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› Bestol M2716-1F1 UV EPROM IC User Manual

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Model: M2716-1F1

1. PRODUCT OVERVIEW

The Bestol M2716-1F1 is a 16K (2K x 8-bit) Ultraviolet Erasable and Electrically Programmable Read-Only Memory (UV EPROM) integrated circuit. This component is designed for applications requiring non-volatile memory storage that can be reprogrammed after erasure by exposure to ultraviolet light. Each package contains five M2716-1F1 EPROM ICs.

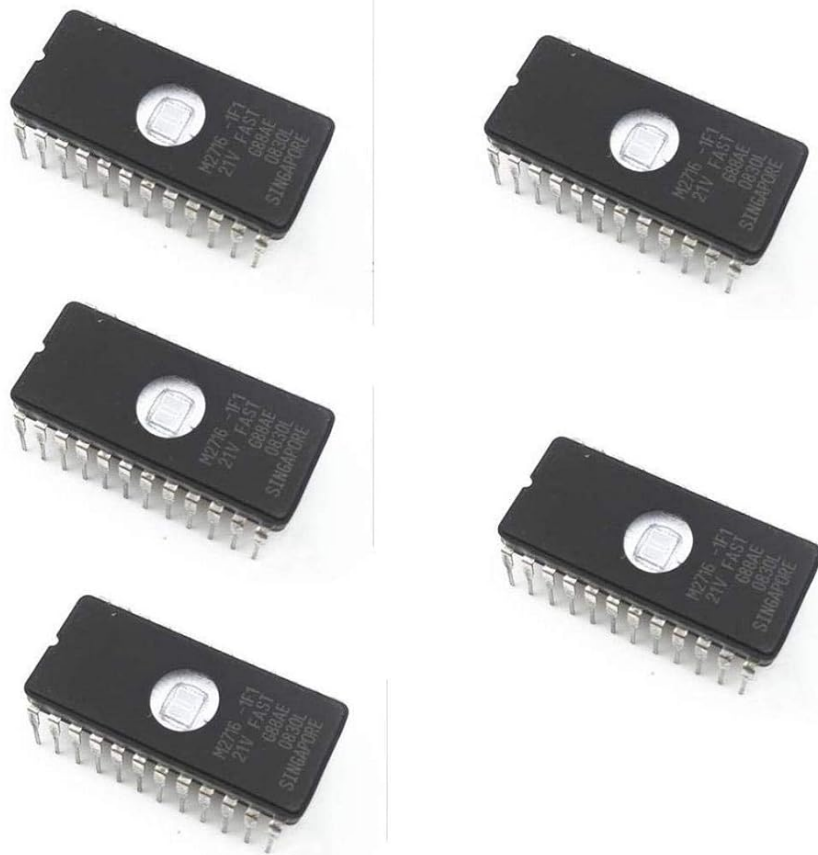


Figure 1: Five Bestol M2716-1F1 EPROM ICs as supplied in the package.

Key features include its 16Kbit memory capacity, UV erasability, and standard DIP (Dual In-line Package) form factor, making it suitable for various electronic projects and legacy system repairs.

2. SETUP AND INSTALLATION

Proper handling and installation are crucial for the longevity and functionality of the M2716-1F1 EPROM ICs.

2.1. Handling Precautions

- **Electrostatic Discharge (ESD) Protection:** Always handle the EPROM ICs in an ESD-safe environment. Use an anti-static wrist strap and mat.
- **Pin Bending:** Be careful not to bend the pins during handling or insertion.
- **UV Exposure:** Keep the EPROM's transparent window covered with an opaque label or tape when not in use or during operation to prevent accidental erasure from ambient UV light.



Figure 2: Close-up view of a single M2716-1F1 EPROM IC, showing part number and manufacturing details on its surface.

2.2. Installation into Circuit Board or Programmer

1. Identify the correct orientation of the IC. The notch or dot on the IC indicates Pin 1.
2. Carefully align the pins of the EPROM with the corresponding holes in the IC socket or circuit board.
3. Gently press the IC into place until it is fully seated. Avoid excessive force.
4. Ensure all pins are correctly inserted and none are bent or shorted.

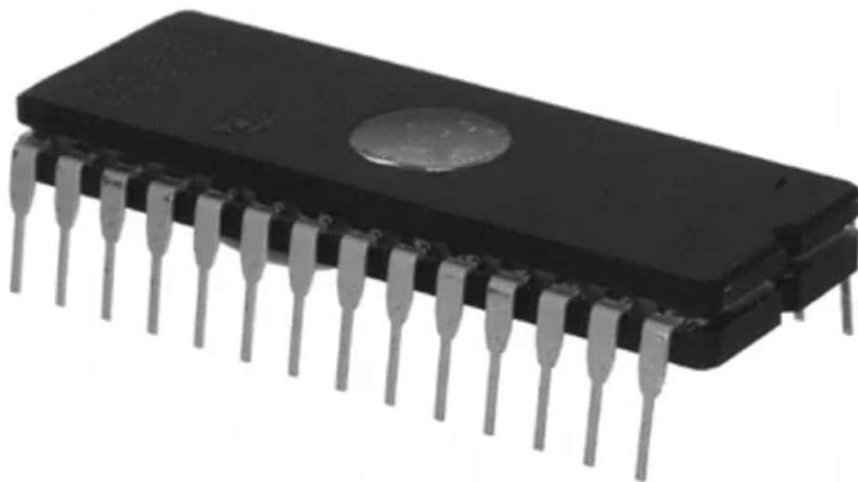


Figure 3: Side view of the M2716-1F1 EPROM IC, illustrating its pin configuration and package dimensions.

3. OPERATING INSTRUCTIONS

The M2716-1F1 EPROM requires an EPROM programmer for writing (programming) data and a UV eraser for erasing data.

3.1. Programming the EPROM

1. Insert the M2716-1F1 EPROM into a compatible EPROM programmer. Ensure correct orientation.
2. Select the M2716 device type in your programmer software.
3. Load the binary or hexadecimal data file you wish to program onto the EPROM.
4. Initiate the programming process. The programmer will apply the necessary programming voltage (typically 21V) and sequence to write the data.
5. After programming, verify the data against the source file using the programmer's verification function to ensure data integrity.

3.2. Reading Data from EPROM

To read data, insert the programmed EPROM into a compatible EPROM reader or programmer, select the device type, and initiate the read operation. The data can then be saved to a file.

4. MAINTENANCE

Proper maintenance ensures the longevity and reusability of your M2716-1F1 EPROMs.

4.1. Erasing the EPROM

To erase the data stored on the M2716-1F1, expose its transparent window to a high-intensity ultraviolet (UV) light source (typically 253.7 nm wavelength). The erasure time varies depending on the UV lamp's intensity, but typically ranges from 15 to 30 minutes for complete erasure.

- Place the EPROM in a UV eraser with the window facing the UV lamp.
- Follow the UV eraser's instructions for exposure time.
- After erasure, the EPROM will return to its erased state (all bits set to '1').

4.2. Storage

Store EPROMs in anti-static tubes or foam. Always keep the transparent window covered with an opaque label or tape to prevent accidental erasure from ambient light sources, which contain small amounts of UV radiation.

5. TROUBLESHOOTING

If you encounter issues with your M2716-1F1 EPROM, consider the following common problems and solutions:

- **Programming Failure:**
 - Ensure the EPROM is fully erased before programming.
 - Verify the EPROM is correctly inserted into the programmer socket.
 - Check that the correct device type (M2716) is selected in the programmer software.
 - Confirm the programmer is supplying the correct programming voltage (21V).
- **Data Corruption/Read Errors:**
 - Ensure the EPROM's window is covered to prevent accidental partial erasure.
 - Check for proper seating of the IC in its socket.
 - Verify the power supply to the circuit or programmer is stable.
- **IC Not Recognized:**
 - Inspect pins for bending or damage.
 - Ensure the IC is inserted with the correct orientation.
 - Clean pins if there is any visible residue.

6. SPECIFICATIONS

Detailed technical specifications for the Bestol M2716-1F1 EPROM IC:

Specification	Value
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Specification	Value
Brand	Bestol
Model Name	M2716-1F1
Memory Type	UV EPROM
RAM Size	1 MB (equivalent to 16Kbit / 2K x 8-bit)
Voltage	1 Volts (Operating), 21 Volts (Programming)
Form Factor	DIMM (Dual In-line Memory Module) - Note: This is likely a misclassification in the source data, as M2716 is a DIP IC.
Item Weight	41 g (for the package of 5)
Package Dimensions	16 x 2.21 x 1.19 cm
Special Feature	Lightweight

7. WARRANTY AND SUPPORT

Information regarding specific warranty terms or direct support channels for the Bestol M2716-1F1 EPROM ICs is not provided within this manual. Please refer to your point of purchase or the product packaging for any available warranty details or contact information for technical support.

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