SECTION 1
General Information

1.1 INTRODUCTION

This section contains general information about the Model 7073 Coaxial Matrix Card and is arranged in the following manner:

1.2 Features
1.3 Warranty Information
1.4 Manual Addenda
1.5 Safety Symbols and Terms
1.6 Specifications
1.7 Unpacking and Inspection
1.8 Repacking for Shipment
1.9 Optional Accessories

1.2 FEATURES

The Model 7073 is a coaxial, one-pole 8 row × 12 column matrix card. Some of the key features include:

- Low contact potential and offset current for minimal effects on low-level signals.
- Quick-disconnect BNC connections to DUT and instrumentation.
- Backplane disconnect jumpers to isolate or connect matrix rows to the backplane of the Model 707.

1.3 WARRANTY INFORMATION

Warranty information is located on the inside front cover of this instruction manual. Should your Model 7073 require warranty service, contact the Keithley representative or authorized repair facility in your area for further information. When returning the matrix card for repair, be sure to fill out and include the service form at the back of this manual in order to provide the repair facility with the necessary information.

1.4 MANUAL ADDENDA

Any improvements or changes concerning the matrix card or manual will be explained in an addendum included with the the unit. Be sure to note these changes and incorporate them into the manual.

1.5 SAFETY SYMBOLS and TERMS

The following symbols and terms may be found on an instrument or used in this manual.

The symbol ⚠ on an instrument indicates that the user should refer to the operating instructions located in the instruction manual.

The symbol ⚡ on an instrument shows that high voltage may be present on the terminal(s). Use standard safety precautions to avoid personal contact with these voltages.

The **WARNING** heading used in this manual explains dangers that might result in personal injury or death. Always read the associated information very carefully before performing the indicated procedure.

The **CAUTION** heading used in this manual explains hazards that could damage the matrix card. Such damage may invalidate the warranty.

1.6 SPECIFICATIONS

Model 7073 specifications may be found at the front of this manual. These specifications are exclusive of the matrix mainframe specifications.

1.7 UNPACKING and INSPECTION

1.7.1 Inspection for Damage

The Model 7073 is packaged in a resealable, anti-static bag to protect it from damage due to static discharge and from contamination that could degrade its performance. Before removing the card from the bag, observe to the following precautions on handling.

Handling Precautions:

1. Always grasp the card by the handle and side edges. Do not touch the edge connectors and do not touch board surfaces or components.
2. When not installed in a Model 707 mainframe, keep the card in the anti-static bag and store in the original packing carton.

After removing the card from its anti-static bag, inspect it for any obvious signs of physical damage. report any such damage to the shipping agent immediately. Save the origianl packing carton for possible reshipment.

If you are going to install the card in the Model 707 mainframe at this time, be sure to follow the additional handling precautions explained in paragraph 2.2

1.7.2 Shipping Contents

The following items are included with every Model 7073 order:

• Model 7073 Coaxial Matrix Card
• Model 7073 Instruction Manual
• Additional accessories as ordered.

1.7.3 Instruction Manual

The Model 7073 Instruction Manual is three-hole drilled so that it can be added to the three-ring binder of the Model 707 Switching Matrix Instruction Manual. After removing the plastic wrapping, place the manual in the binder after the mainframe instruction manual. Note that a manual identification tab is included and should precede the matrix card instruction manual.

If an additional instruction manual is required, order the manual package, Keithley part number 7073-901-00. The manual package includes an instruction manual and any pertinent addenda.

1.8 REPACKING FOR SHIPMENT

Should it become necessary to return the Model 7073 for

repair, carefully pack the unit in its original packing carton or the equivalent, and include the following information:

• Advise as to the warranty status of the matrix card.
• Write ATTENTION REPAIR DEPARTMENT on the shipping label.
• Fill out and include the service form located at the back of this manual.

1.9 OPTIONAL ACCESSORIES

The following accessories are available for use with the Model 7073:

Model 4801—Low noise coaxial cable, 48″ (1.2m) in length, with male BNC connectors on both ends.

Model 4802-10—Low noise coaxial cable, 10ft. (3m) in length, with a male BNC connector at one end and unterminated at the other end.

Model 4803—Low noise cable kit. Includes 50ft. of low noise coaxial cable, 10 male BNC connectors, and 5 female BNC chassis-mount connectors.

Model 4804—Male BNC to female triax adapter.

Model 4851—BNC shorting plug.

Model 6147—Male triax to female BNC adapter.

Model 7051-2 BNC to BNC Cable—The Model 7051-2 is a 50Ω BNC to BNC cable (RG-58C) 2ft. (0.6m) in length.

Model 7071-5 BNC to BNC Cable—The Model 7051-5 is a 50Ω BNC to BNC cable (RG-58C) 5ft. (1.5m) in length.

Model 7754-3 BNC to Alligator Cable—The Model 7754-3 is a 3ft. (0.9m) 50Ω cable (RG-58C) terminated with a BNC plug on one end and two alligator clips on the other end.

Model 7755 50Ω Feed-Through Terminator—The Model 7755 is a BNC to BNC adapter that is teminated with a 50Ω resistor. VSWR < 1.1, dc to 250MHz.

Mode CS-115—Male UHF to female BNC adapter.