

# 7061

- Circuit prototyping
- Access to relay drive lines
- Extender cable

## Ordering Information

7061 Universal Adapter Card

# 7062 7063



- 500MHz bandwidth
- BNC connectors
- Two independent 1 of 5 switches

## Ordering Information

7062 RF Switch Card

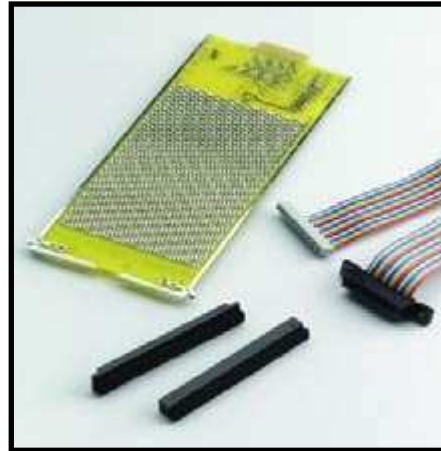
7063 RF Switch Card with Terminations

1.888.KEITHLEY (U.S. only)

[www.keithley.com](http://www.keithley.com)

[www.valuetronics.com](http://www.valuetronics.com)

# Universal Adapter Card



The Model 7061 was designed with a 6-volt supply, ground trace, and a grid pattern of plated-through holes on 0.1 inch centers for mounting special relays or circuits. Relay drive lines from the scanner mainframe can be used for control. A supplied ribbon cable assembly extends the relay drive lines beyond the enclosure for easy access to relay cards for troubleshooting.

**RELAY DRIVE LINES:** 350mA sink.

**HARDWARE SPACE:** 15/16 inch, maximum height a component can protrude from the universal adapter card and fit in the 7001 or 7002 mainframe.

**HOLE SIZE:** 0.062 inch diameter.

**HOLE SPACING:** 0.1 inch centers

**RIBBON CABLE:** 2 ft length with connectors preassembled.

**STRAIN RELIEF CLAMP:** Assembly provided.

**OPERATING CODES:** Provided in manual.

# 500MHz RF Switching Cards

Model 7062, 50 $\Omega$  unterminated

Model 7063, 50 $\Omega$  terminated (on unselected inputs)

The 7062 and 7063 have two independent 1 of 5 switches. Each switch has a separate through connection that can be used to cascade sections to achieve larger scanning configurations in multiples of five. The switched transmission line design maintains the 50 $\Omega$  characteristic through the switch, minimizing reflection and loss. This approach results in reduced capacitance and better frequency response. The 7063 inputs are terminated in the 50 $\Omega$  characteristic impedance when not selected. A 500MHz bandwidth assures signal integrity over a broad range from DC to communications signals and digital waveforms. Coaxial switching provides additional shielding and noise immunity in the system environment.

**SWITCHES PER CARD:** 2 (with isolated grounds).

**CHANNELS PER SWITCH:** 5.

**SWITCH CONFIGURATION:** 1-pole, 5 throw.

**EXPANSION:** A through connector is provided for cascading switches.

**CONNECTOR TYPE:** BNC.

**RELAY DRIVE CURRENT:** 100mA per relay typical.

**ACTUATION TIME:** 10ms exclusive of mainframe.

**RELEASE TIME:** 5ms.

**CHARACTERISTIC IMPEDANCE:** 50 $\Omega$ .

**TERMINATIONS:** 7062: None. 7063: 50 $\Omega$  on unselected inputs.

**PROPAGATION DELAY:** <2ns.

**INSERTION LOSS:** <0.1dB below 20MHz, <1.0dB below 250MHz, and <3.0dB below 500MHz.

**ISOLATION CHANNEL (switch to channel):** >75dB below 20MHz, >55dB below 250MHz, and >60dB below 500MHz.

**ISOLATION (switch to switch):** >80dB below 20MHz, >70dB below 250MHz, and >60dB below 500MHz.

**MAXIMUM SIGNAL LEVEL:** 24V on Model 7062, 5V on Model 7063, switched; 50mA; 0.5 watt switched.

**CONTACT LIFE:** >10<sup>6</sup> closures cold switching; >10<sup>5</sup> closures at maximum signal levels.

**CONTACT RESISTANCE:** <2 $\Omega$  input to output.

**CONTACT POTENTIAL:** <20 $\mu$ V.

## ACCESSORIES AVAILABLE

7051-2	BNC Male to BNC Male Cable, 2ft.
7051-5	BNC Male to BNC Male Cable, 5ft.
7051-10	BNC Male to BNC Male Cable, 10ft.