

1582-71, -72 RF SWITCH

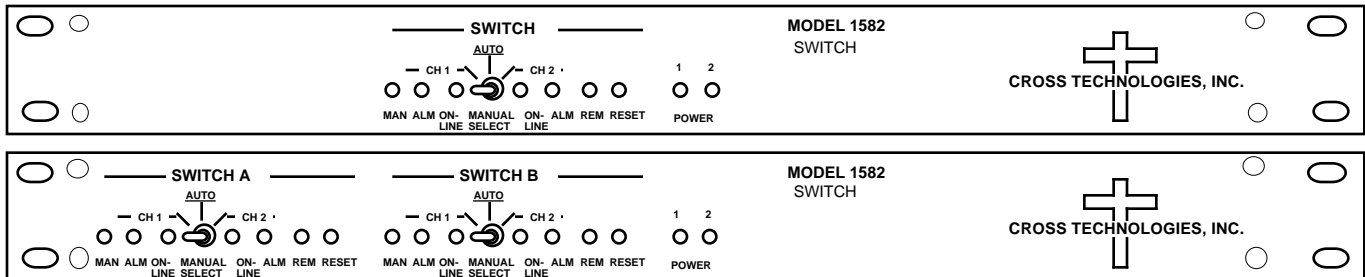
The 1582-71 Switch provides automatic and manual control of DC - 1.5 GHz signals. Automatic control determines switch routing by monitoring alarm inputs on two channels (CH1, CH2) and selecting the initial source. Local and remote (with contact closures) control of RF sources is also provided. . The 1582-72 has two switches in one chassis.

EQUIPMENT DESCRIPTION

The 1582-71 RF Switch provides Auto, Manual, or Remote relay switching between CH1 and CH2 RF signals. Alarm conditions are either contact closure to ground or an open (selectable). Switching logic can be selected as follows:

- 1) CH1 Prime Mode** - Switches from CH1 to the CH2 only if CH1 alarms and CH2 is good. Switches back to CH1 when it is no longer in alarm or when both CH1 and CH2 are in alarm
- 2) Latch to CH2 Mode** - Switches from CH1 to CH2 if CH1 alarms and CH2 is good. Latches to CH2. Push Reset or ground Remote Reset pin to return to CH1 if it has no alarm or both CH1 and CH2 are in alarm.
- 3) Minimum Auto switching, Return to Last State Mode** - Switch goes to the last state (CH1 or CH2) it was in when in Auto after Manually or Remotely switching and returning to Auto. Auto switching occurs only if current channel alarms and the other channel is clear.
- 4) Minimum Auto switching, Initial Channel Select (ICS) Mode**- Switch stays on channel last selected by Manual or Remote selection after return to Auto if both channel alarms are clear or both channels are in alarm. Auto switching occurs only if current channel alarms and the other channel is clear.

When power is applied with no alarms, CH1 is selected. On power loss CH1 is the selected. The Manual Select switch and contact closures to Remote Select pins (when in Auto), select CH1 or CH2 independent of alarms. LEDs indicate alarm and switch conditions for CH1 and CH2, REMOTE or MANUAL operation, and power on. RF connectors are BNC, female. Contact closure I/O's are via barrier strip. Dual power supplies provide redundant power. The 1582-72 RF Switch has two independent switches (A and B) in one 1 3/4" chassis.



1582-71, 72 RF SWITCHES

1582-71 Technical Specifications

Switch Characteristics

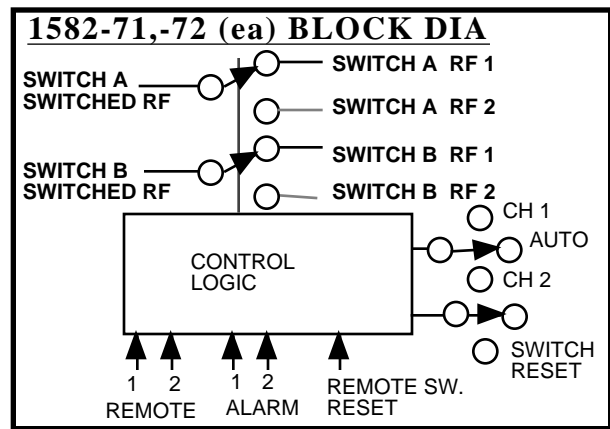
Impedance	75 ohms (no sw termination)
Type	RF Relay
Isolation	>65 dB DC to 10MHz >50 dB to 500 MHz, >40 dB to 1.5 GHz
Switch time	10 milliseconds
Insertion Loss	1 dB, < 0.5 dB typ (to 0.5 GHz) 2 dB, < 1 dB typ (to 1.5 GHz)
Configuration	DPDT

Controls and Indicators

Manual Select Switches between manual or automatic operation
 LEDS CH1, CH2 ON-LINE; MANUAL; ALARM CH1,CH2; REMOTE; POWER CH1,CH2

Other

Connectors, alarm, RF Barrier Strip, BNC, female
 Mechanical 19 inch standard chassis 1.75"high X 11.5" deep
 Power 90 - 260 VAC, 47 - 60Hz, 30 watts; Redundant power supplies



*+10 to +40 degrees C; 2000 meters max elevation; 80% max humidity; Specifications subject to change without notice

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