Amphenol[®] RF

Global RF Solutions

FEATURES & BENEFITS Single Pole-Double Throw (SPDT) design Compact size

Surface mount, lead free

Low VSWR and insertion loss DC-3 GHz

APPLICATIONS

Telecommunications Systems

Wireless Access Cards (EvDO and EvDV)



Manually Actuated RF Switches

Manual RF Switch

Amphenol RF's manually actuated switches are PCB surface mount single pole double throw switches used to transfer one source signal between two outputs. The normally closed "internal output" is a PCB trace. The normally open "external output" is a connector interface. In its normally closed state, the switch directs the source signal to the internal output. When a connector is mated to the switch, the source signal is transferred to the external output. The signal returns to the internal output when the "external output" connector is unmated from the switch. At DC to 3 GHz and up to 1,500 cycles, the VSWR is 1.4 Maximum.

Specifications

Electrical

Impedance 50 Ω

Frequency Range DC - 3 GHz Dielectric Withstanding Voltage 250 VRMS, Min.

Mechanical

Temperature Range -40° C to 110° C

Material

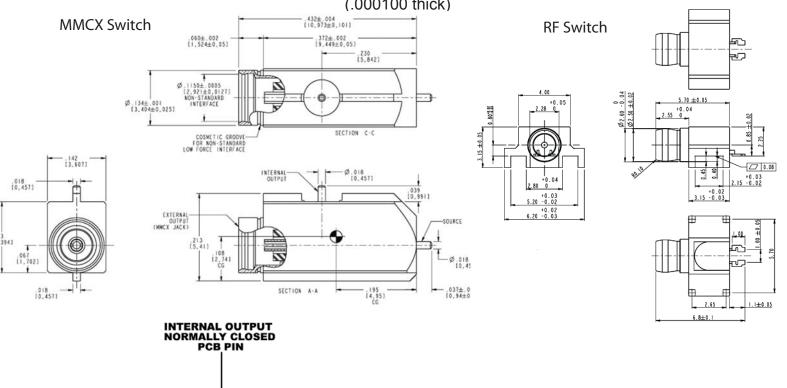
Body Female Contact Pin Contact

Outer Contact

brass, gold plating (.000010 min. thick) beryllium copper, gold plating (.000030 min. thick)

phosphor bronze, Gold Plating (.000030 min. thick) phosphor bronze or beryllium copper, nickle plating

(.000100 thick)



SOURCE

SINGLE POLE DOUBLE THROW SWITCH

EXTERNAL OUTPUT NORMALLY OPEN

MATING INTERFACE