This specification is for an electro–mechanical coaxial SPDT switch with SMA connectors. The 401–169 contains a 24 to 30 volt failsafe actuator mechanism with mechanical indicators. The switch remains in the normally closed position 1–IN until the actuator is energized. With the actuator energized, the switch moves to the normally open position 2–IN. When the actuator is de–energized, the switch returns to the normally closed position.
SPECIFICATIONS:

1. RF CHARACTERISTICS
   1.1 FREQUENCY (GHz)  .01–8.0  8.0–13.0  13.0–18.0
   1.2 VSWR MAX.  1.3:1  1.4:1  1.5:1
   1.3 INSERTION LOSS MAX.  0.2dB  0.3dB  0.5dB
   1.4 ISOLATION MIN.  80dB  80dB  60dB

2. ACTUATION DATA @ 20°C
   2.1 VOLTAGE:  24–30 Vdc (28 Vdc NOMINAL)
   2.2 PULL IN  20 Vdc MAX
   2.3 DROP OUT:  1.0 Vdc MIN.
   2.4 CURRENT:  150ma MAX @ 28 Vdc
   2.5 SWITCHING TIME:  20ms MAX., RF TO RF.
   2.6 OPERATING MODE:  FAILSAFE WITH INDICATOR

3. MECHANICAL
   3.1 CONTACT ARRANGEMENT:  SPDT
   3.2 RF CONTACTS:  BREAK BEFORE MAKE
   3.3 WEIGHT:  1.5 OZ MAX.
   3.4 LIFE:  1,000,000 CYCLES

4. ENVIRONMENTAL
   4.1 OPERATING TEMPERATURE:  −54°C TO +85°C
   4.2 STORAGE TEMPERATURE:  −62°C TO +85°C

5. FINISH
   5.1 ENCLOSURE:  ALUMINUM, ELECTROLESS NICKEL
                   PLATE 0.001 INCH THICK
   5.2 RF CAVITY  ALUMINUM, ELECTROLESS NICKEL
                   PLATE PER MIL–C–26074
   5.3 CONNECTOR SHELL  CRES, PASSIVATED PER QQ–P–35
SCHEMATIC

+ 2
24 TO 30 Vdc
- 1

POS 2 5

POS 1 4

COM 3

SHOWN IN FAILSAFE DE-ENERGIZED POSITION (POS 1)