COAXIAL SWITCH
TYPE Y
DATA SHEET 100

DESCRIPTION
The Type Y was designed by Transco to meet the requirement for a small, economical coaxial switch having good RF characteristics over a broad bandwidth (0 to 11 GHz) with 1,000,000 cycle reliability.

The two independently operating solenoids allow make-before-break or break-before-make operation. RF positions can be both on or both off simultaneously. Solenoids can be supplied normally open or normally closed so FAIL-SAFE operation is easily provided by solenoid selection. Switches may be stacked (placed one on top of the other using the same mounting screws) for multipole operation.

Please see below for the part number with desired (1) RF connectors and (2) schematic . . . solenoid

DESIGNED TO MEET MIL-S-3928/7

PRODUCTS

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<td>P/N</td>
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SPECIAL CONFIGURATIONS
Type C or Type HN connectors.

RF CIRCUIT
ACTUATOR
CONNECTORS
FREQUENCY
SPDT
*Selective
N, TNC, BNC
0-11 GHz

* Solenoid for each RF position.

SCHEMATICS

#1

#2

#3

(All solenoids shown in de-energized position.)
SPECIFICATIONS

Typical RF data of a production switch; computer printouts below:

POWER
500 watts@1 GHz
10 kW peak

TEMPERATURE
-54°C to 85°C

VIBRATION
20 g's to 500 cps

OPERATING TIME
10 milliseconds nominal

LIFE
1,000,000 operations minimum

WEIGHT
6 oz. max

ACTUATOR VOLTAGE
28 Vdc nominal

RF CONNECTOR
Type N, TNC, BNC

MIL SPECIFICATIONS
MIL-E-5272, MIL-T-5422
MIL-S-3928

SOLENOID DATA
28 Vdc nominal

Rated Voltage
18-30 Vdc

Dropout Voltage
0.5-10 Vdc

Rated Current Per Coil
.23 amps @ 26V

Rated Power Per Coil
7 watts

Coil Resistance @ 20°C
101-123 ohms

DIMENSIONS

[Illustration showing dimensions and specifications]