Elite CRT-33
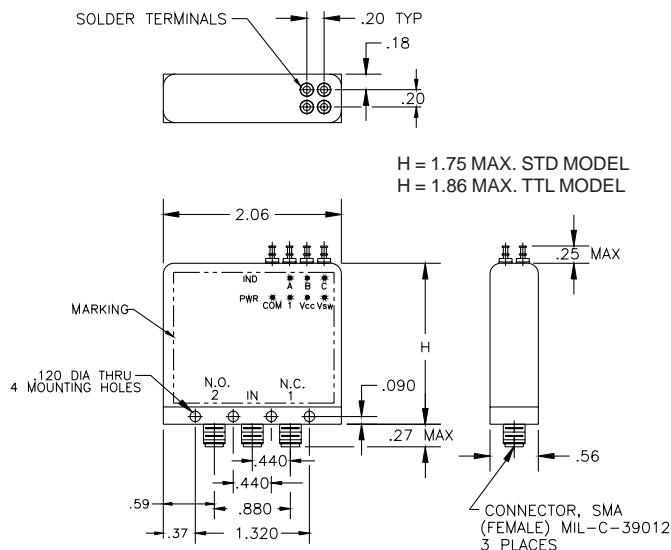## Internal Terminations DC-22GHz SPDT Switch
Failsafe

The CRT-33 Switch is an internally terminated, broadband, SPDT, electromechanical coaxial switch designed to switch a microwave signal from a common input to either of two outputs. The characteristic impedance is 50 Ohms. Internal terminations provide an impedance match for the unselected port. The switches are small with the minimum spacing that is compatible with SMA connectors.
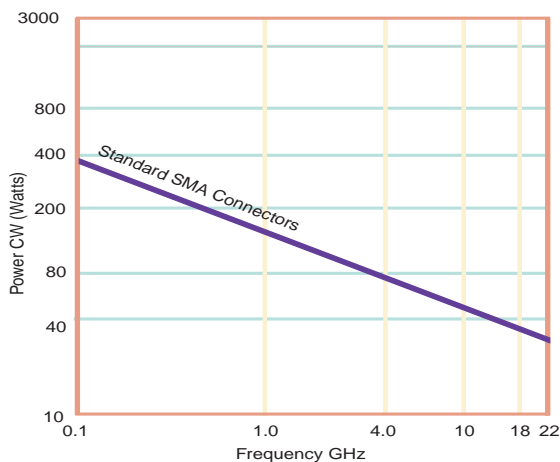
The CRT-33 is available with either a failsafe or latching actuator.

Specifications

RF Contacts: Break before make

Actuator

Voltage (VDC) 20°C	12	15	28
Current (mA)	420	350	200

Switching Time: 20 msec max

Terminations: 50 Ohm 2 Watts CW max

Connectors: SMA (f)

Weight: 2.65 oz. max

Temperature Range: -55°C to +85°C (Operating)

Shock: MIL-STD-202 Method 213, Condition D (500G Non Operating)

Vibration: MIL-STD-202 Method 214, Condition D (10G RMS Non Operating)

Humidity: Moisture Seal Available

Typical Contact Life: 5 Million Cycles

SOLDER TERMINALS
.20 TYP
.18
.20

H = 1.75 MAX. STD MODEL
H = 1.86 MAX. TTL MODEL

2.06

MARKING

IND
PWR A B C
COM 1 Vcc Vsw

.120 DIA THRU
4 MOUNTING HOLES

N.O. 2   IN   N.C. 1

.090
.27 MAX

.25 MAX

H

.59
.37 .880
.440
.440
1.320

.56

CONNECTOR, SMA
(FEMALE) MIL-C-39012
3 PLACES

RF Power Handling (Non-terminated)

Standard SMA Connectors

Typical Performance

Specifications	DC-6 GHz	6-12 GHz	12-18 GHz	18-22 GHz
VSWR (max)	1.25:1	1.40:1	1.50:1	1.60:1
Insertion Loss (min)	0.20 dB	0.40 dB	0.50 dB	0.60 dB
Isolation (max)	70.0 dB	60.0 dB	60.0 dB	50.0 dB

TELEDYNE COAX SWITCHES
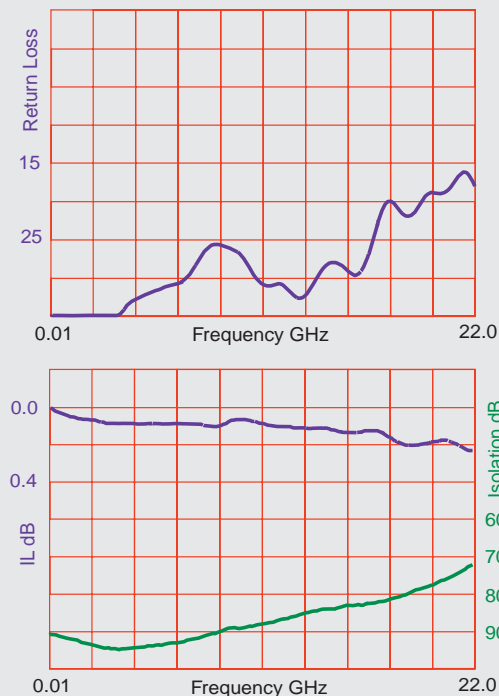
Specifications subject to change without notice.

www.teledynecoax.com
email: coax@teledyne.com

Tel: (800) 351-7368
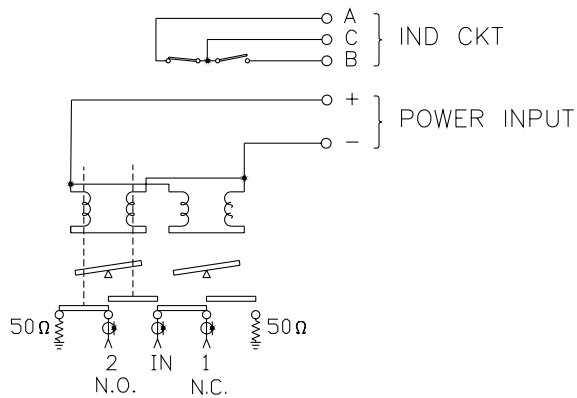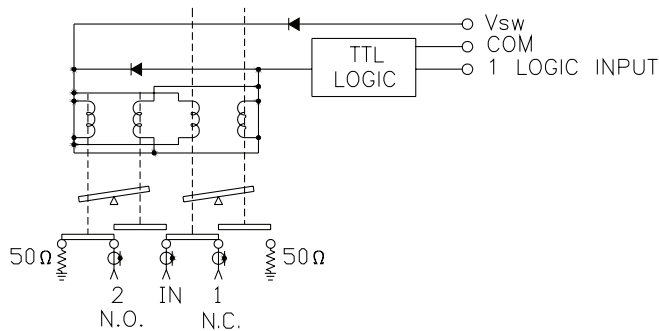10/2007

Indicators

TTL

Analog

Part Numbering System for CRT-33 (Failsafe)

CRT-33 S 1 O -T

- Series
- Connectors
- Actuator Voltage
- Options
- Actuator Type
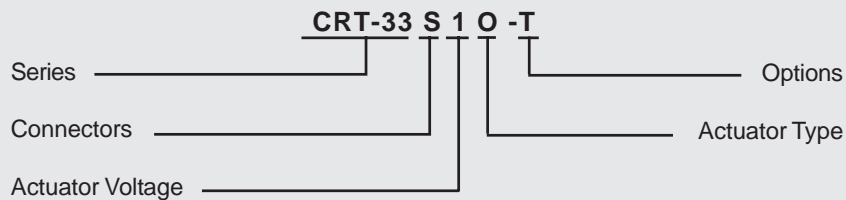
Connector
S: SMA Female

Actuator Voltage
1: 28Vdc Failsafe
2: 15Vdc Failsafe
3: 12Vdc Failsafe

Actuator Type
O: No Indicator Contacts
C: Indicator Contacts

Options
T: TTL Drivers with Diodes
R: Positive + Common

For other options contact Factory

TELEDYNE
COAX SWITCHES

Specifications subject to change without notice.

www.teledynecoax.com
email: coax@teledyne.com