



Commercial CCRT-33

Internal Terminations DC-18GHz SPDT Switch

Latching

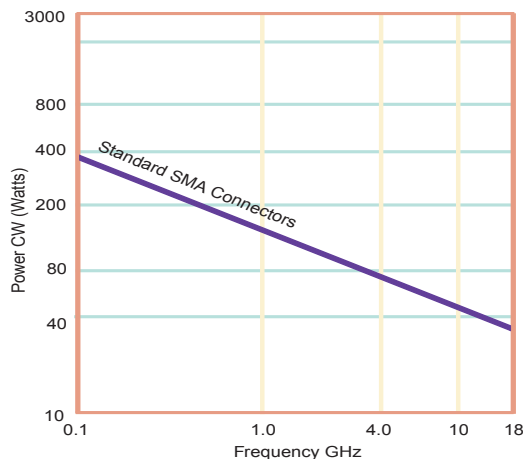
The CCRT-33 Switch is an internally terminated, broadband, SPDT, electromechanical coaxial switch designed to switch a microwave signal from a common input to either of two outputs. The characteristic impedance is 50 Ohms. Internal terminations provide an impedance match for the unselected port. The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

The CCRT-33 is available with either a failsafe or latching actuator.

Specifications

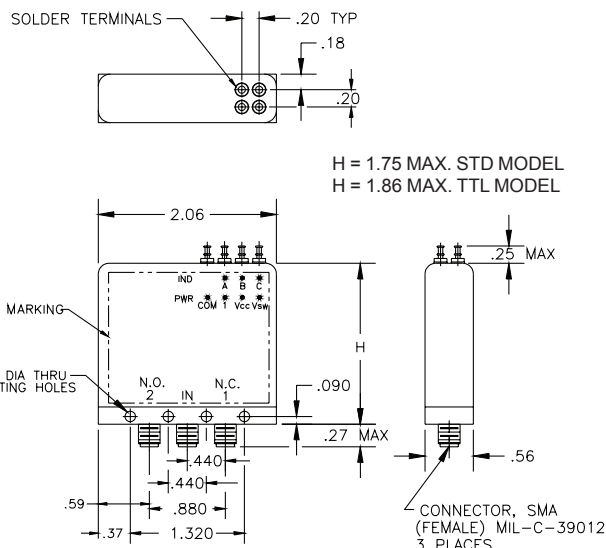
| | | | | |
|---------------------------|---|-----|-----|-----|
| RF Contacts: | Break before make | | | |
| Actuator | Voltage (VDC) 20°C | 12 | 15 | 28 |
| | Current (mA) | 420 | 350 | 200 |
| Switching Time: | 10 msec max | | | |
| Terminations: | 50 Ohm 2 Watts CW max | | | |
| Connectors: | SMA (f) | | | |
| Weight: | 2.65 oz. max | | | |
| Temperature Range: | -40°C to +65°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 | | | |
| MTBF: | 7.3 Million Hours (MIL-HDBK-217F Fixed, 25°C, <1 Cycle per hour) | | | |

RF Power Handling (Non-terminated)

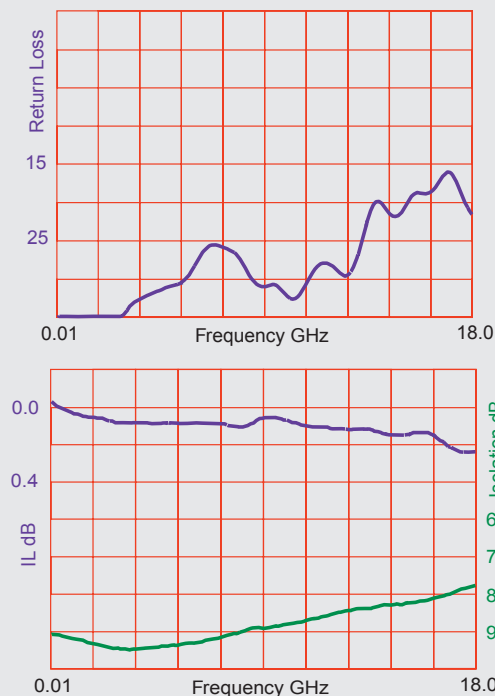


Specifications

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



Typical Performance



TELEDYNE
COAX SWITCHES

Specifications subject to change without notice.

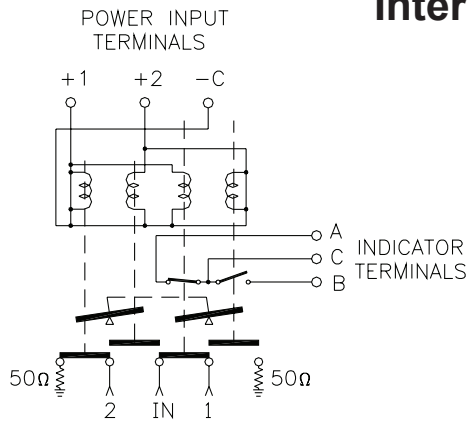
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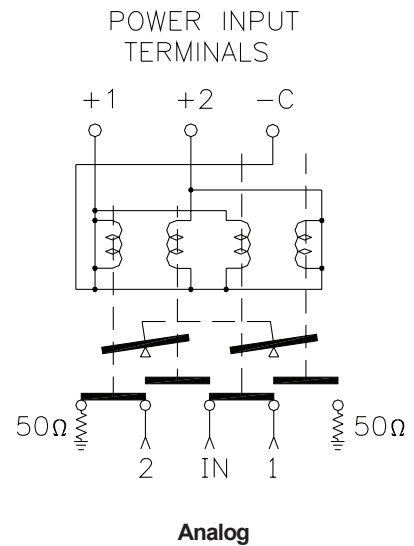
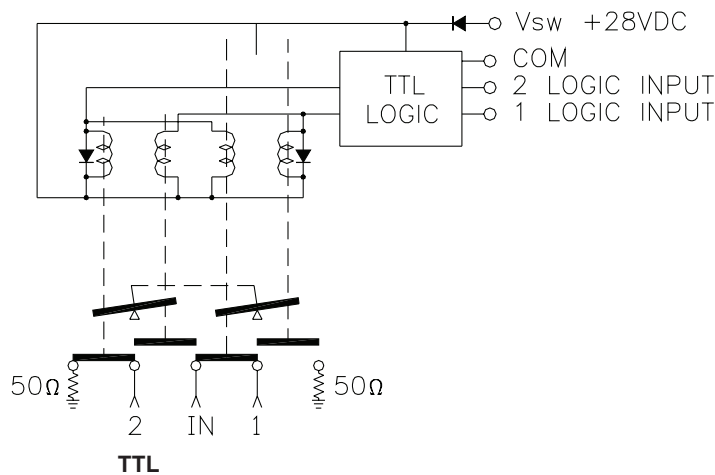
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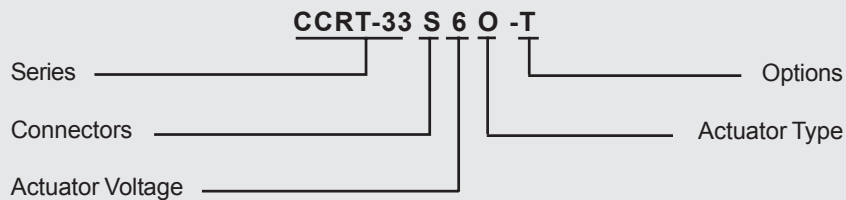
Latching



Indicators



Part Numbering System for CCRT-33 (Latching)



Connector
S: SMA Female

Actuator Voltage
6: 28Vdc Latching
7: 15Vdc Latching
8: 12Vdc Latching

Actuator Type
O: No Indicator Contacts
C: Indicator Contacts
D: Self Cutoff Only
E: Indicators and Self Cutoff

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

For other options contact Factory