Commercial   CCR-33
Miniature DC-18GHz SPDT Switch
Failsafe

The CCR-33 Switch is a 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. The switches are small with connector spacing compatible with SMA connectors.

The CCR-33 series switch is offered with either a failsafe or latching actuator. This design is compatible with the two most common mounting hole patterns. The CCR-33 series switch is interchangeable with a variety of switches.

If your requirements are more demanding then perhaps the CCM-33 Range of 10 Million cycle switches would be of interest.

Specifications

RF Contacts: Break before make

Actuator

Voltage (VDC) 20°C	12	15	28
Current (mA)	200	160	90

Switching Time: 20 msec max

Connectors: SMA (f)

Weight: 1.65 oz. max

Temperature Range: -25°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

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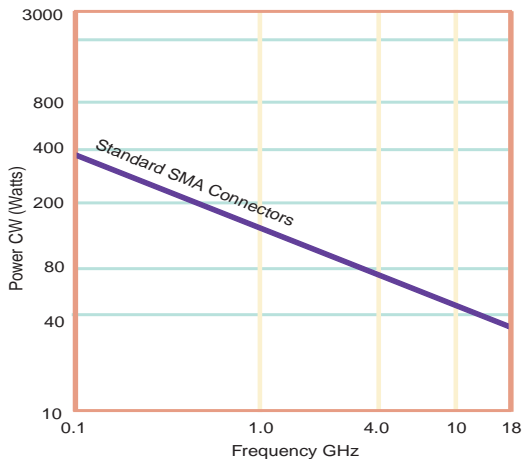
Specifications	DC-6 GHz	6-12 GHz	12-18 GHz
VSWR (max)	1.25:1	1.40:1	1.50:1
Insertion Loss (min)	0.20 dB	0.40 dB	0.50 dB
Isolation (max)	70.0 dB	60.0 dB	60.0 dB

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Specifications subject to change without notice.

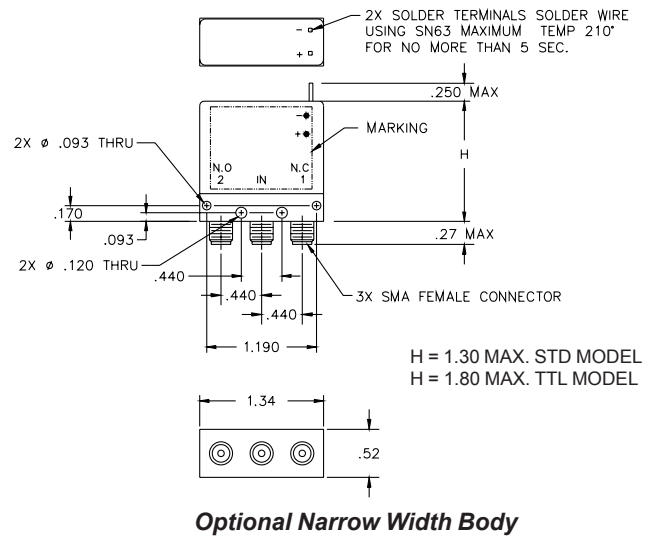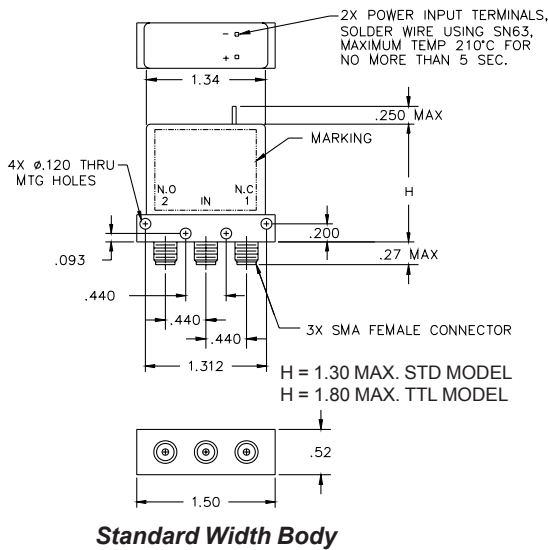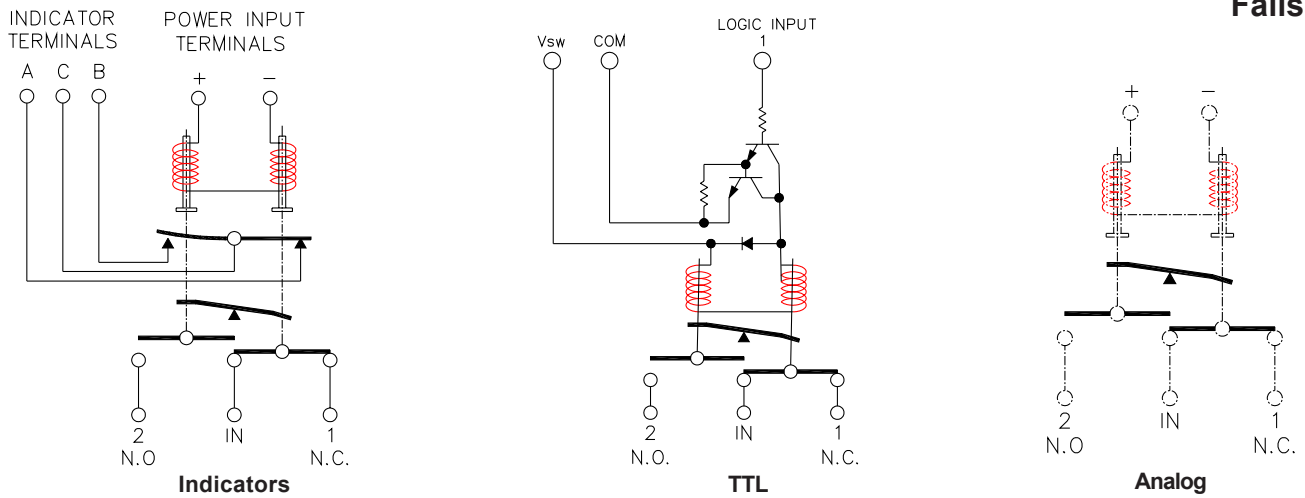www.rfswitches.com
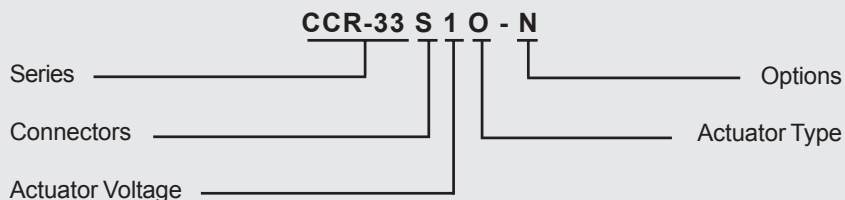email: switches@teledyne.com

Tel: 800 -284-7007
01/2004

Commercial CCR-33
Miniature DC-18GHz SPDT Switch
Failsafe

INDICATOR TERMINALS
A C B

POWER INPUT TERMINALS
+ −

2 N.O   IN   1 N.C.

Indicators

LOGIC INPUT
Vsw   COM   1

2 N.O.   IN   1 N.C.

TTL

+ −

2 N.O   IN   1 N.C.

Analog

2X POWER INPUT TERMINALS, SOLDER WIRE USING SN63, MAXIMUM TEMP 210°C FOR NO MORE THAN 5 SEC.

1.34
.250 MAX
MARKING
4X ∅.120 THRU MTG HOLES
N.O 2   IN   N.C 1
H
.200
.27 MAX
.093
.440
.440
.440
3X SMA FEMALE CONNECTOR
1.312

H = 1.30 MAX. STD MODEL
H = 1.80 MAX. TTL MODEL

1.50   .52

Standard Width Body

2X SOLDER TERMINALS SOLDER WIRE USING SN63 MAXIMUM TEMP 210° FOR NO MORE THAN 5 SEC.

.250 MAX
MARKING
2X ∅ .093 THRU
N.O 2   IN   N.C 1
H
.170
.093
.27 MAX
2X ∅ .120 THRU
.440
.440
.440
3X SMA FEMALE CONNECTOR
1.190

H = 1.30 MAX. STD MODEL
H = 1.80 MAX. TTL MODEL

1.34   .52

Optional Narrow Width Body

Part Numbering System for CCR-33 (Failsafe)

CCR-33 S 1 O - N

Series ——————

Connectors ——————

Actuator Voltage ——————

Options

Actuator Type

Connector	Actuator Voltage	Actuator Type	Options
S: SMA Female #	1: 28Vdc Failsafe #	O: No Indicator Contacts #	T: TTL Drivers with Diodes
	2: 15Vdc Failsafe #	C: Indicator Contacts #	N: Narrow Body #
	3: 12Vdc Failsafe #		R: Positive + Common

For other options contact Factory

#: Stock item subject to prior sale

TELEDYNE
RELAYS
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www.rfswitches.com
email: switches@teledyne.com

Tel: 800- 284-7007