



Commercial CCR-39

Multi-Throw DC-18GHz

Latching

The CCR-39 Switch is a broadband, multi-throw, electromechanical coaxial switch designed to switch a microwave signal from a common input to any of 3, 4, 5, or 6 outputs. The characteristic impedance is 50 Ohms. The switches are small using the popular connector spacing on a 1.062" dia. circle. Each position has an individual actuator mechanism allowing random position selection. This also minimizes switching time.

Specifications

RF Contacts:

Break before make

Actuator

Voltage (VDC) 20°C	12	15	28
Latching Current (mA)	255	205	90
Reset Current (mA)	Positions		
	3	765	615
	4	1020	820
	5	1275	1025
	6	1530	1230

Switching Time: 20 msec max

Connectors: SMA (f)

Weight: 6 oz. max

Temperature Range: -40°C to +65°C (Operating)

The CCR-39 comes with a latching actuator. The latching switch remains in the last position selected when the switch is de-energized. STD dual command requires a reset pulse before a new selected position. A separate reset circuit allows all positions to be set to an open position. User must provide both reset (clear) and set (select new position) commands.

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

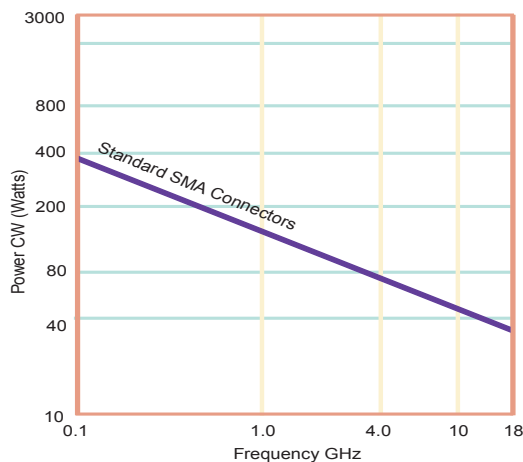
Typical Contact Life: 5 Million Cycles

Insertion Loss Repeatability (1 Million Cycles):

DC to 6 GHz: 0.05 dB

DC to 20 GHz: 0.1 dB

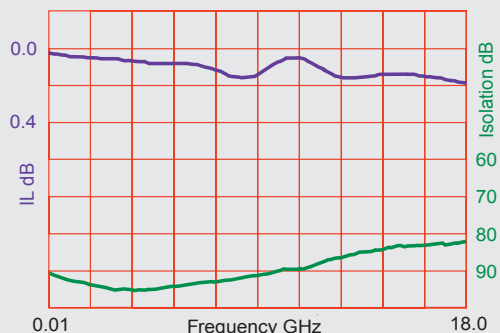
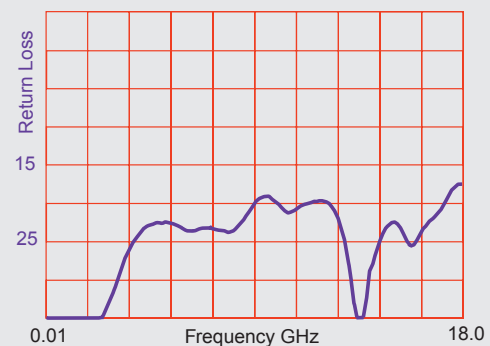
RF Power Handling



Specifications

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

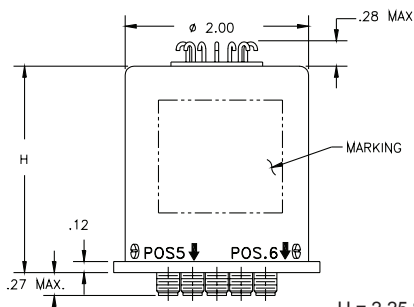
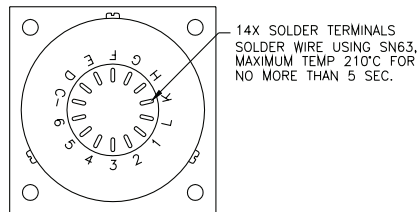
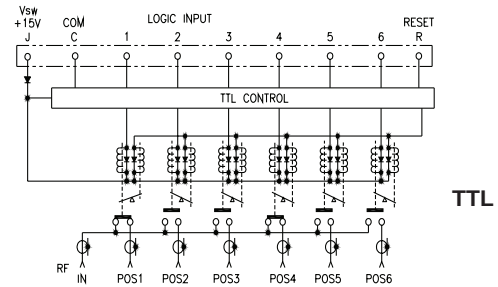
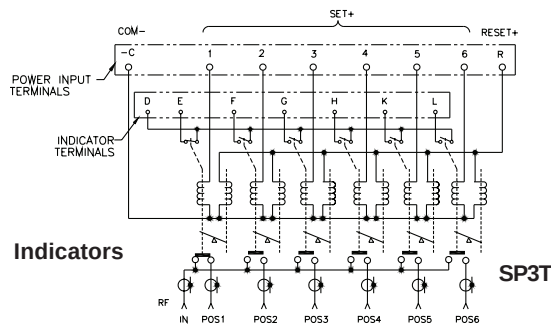
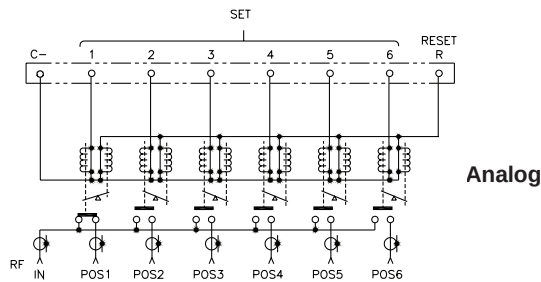
Typical Performance



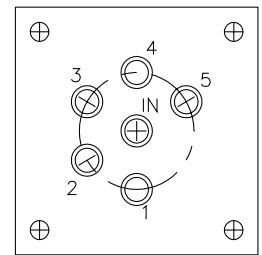
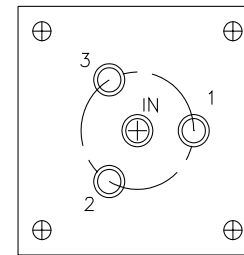
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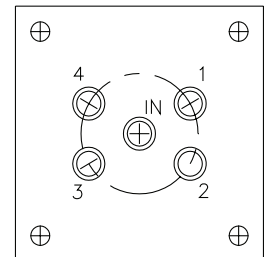
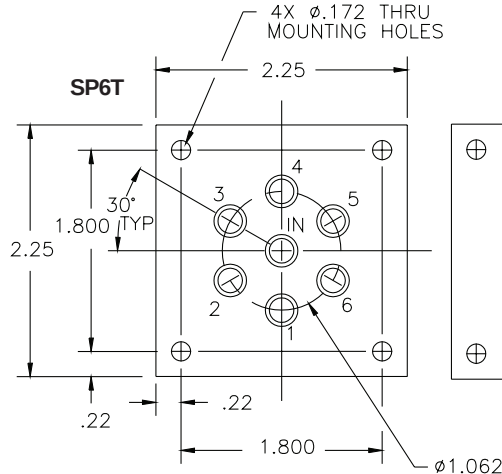
Latching



H = 2.25 STD Model
H = 2.50 TTL Model

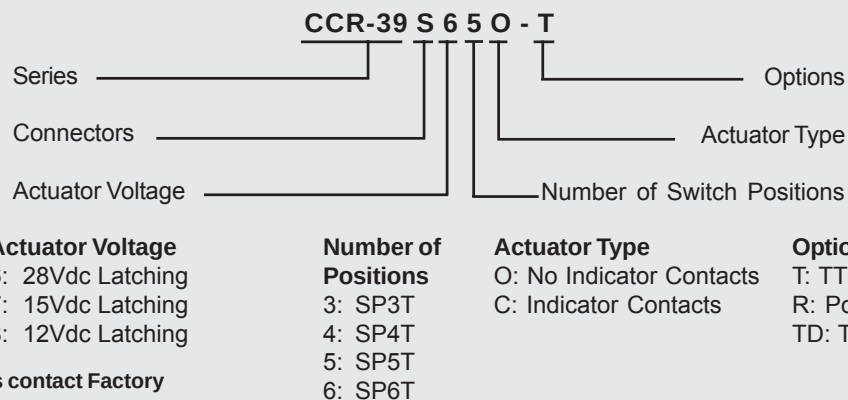


SP5T



SP4T

Part Numbering System for CCR-39 (Latching)



Connector
S: SMA Female

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

Number of Positions
3: SP3T
4: SP4T
5: SP5T
6: SP6T

Actuator Type
O: No Indicator Contacts
C: Indicator Contacts

Options
T: TTL Drivers with Diodes
R: Positive + Common
TD: TTL Driver with Decoder

For other options contact Factory



Specifications subject to change without notice.

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