



Elite CR-39

Multi-Throw DC-22GHz

Latching

The CR-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

Latching Current (mA)

	12	15	28
Positions	255	205	90
3	765	615	270
4	1020	820	360
5	1275	1025	450
6	1530	1230	540

Switching Time: 20 msec max

Connectors: SMA (f)

Weight: 6 oz. max

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

The CR-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)

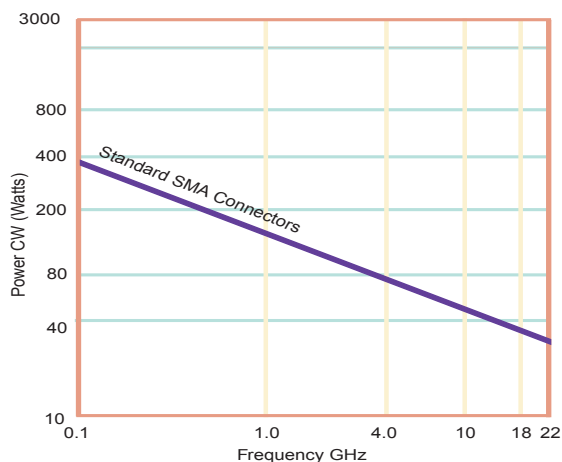
Humidity:

Moisture Seal Available

MTBF:

6.5 Million Hours (MIL-HDBK-217F Fixed, 25°C, <1 Cycle per hour)

RF Power Handling

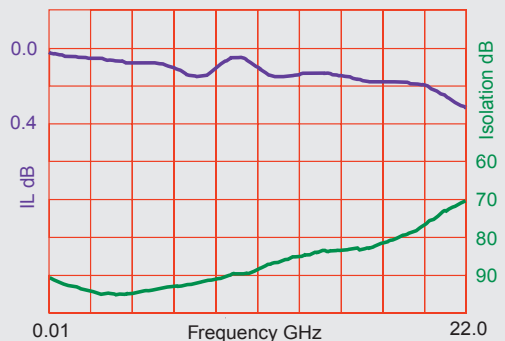
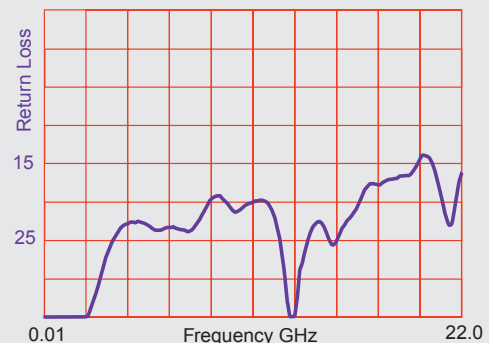


Specifications

VSWR (max)
Insertion Loss (min)
Isolation (max)

DC-6 GHz	6-12 GHz	12-18 GHz	18-22 GHz
1.25:1	1.40:1	1.50:1	1.80:1
0.20 dB	0.40 dB	0.50 dB	0.80 dB
70.0 dB	60.0 dB	60.0 dB	50.0 dB

Typical Performance



TELEDYNE
COAX SWITCHES

Specifications subject to change without notice.

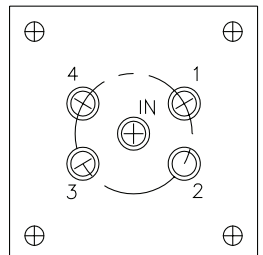
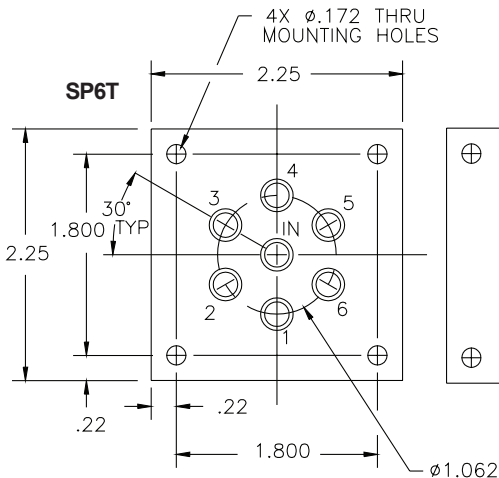
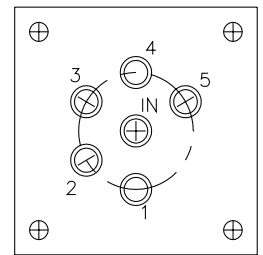
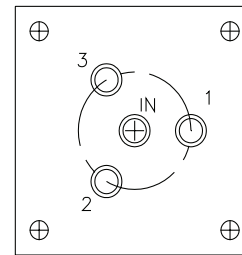
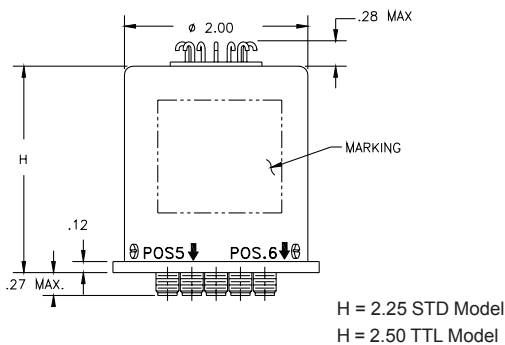
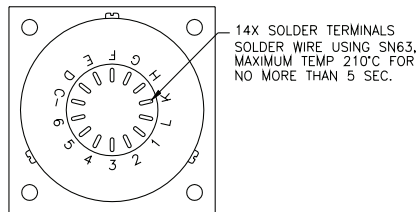
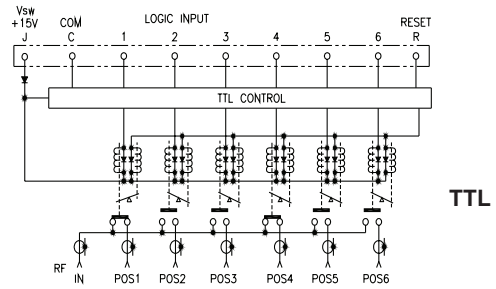
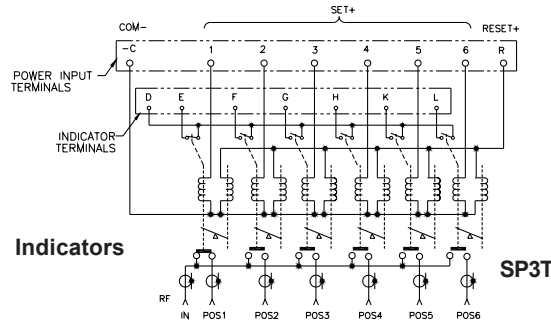
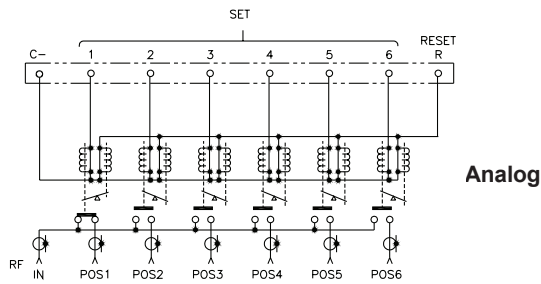
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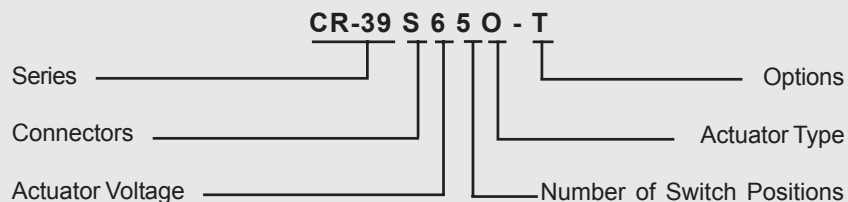
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Latching



Part Numbering System for CR-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
D: Self Cutoff Only
E: Indicators and Self Cutoff

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

For other options contact Factory



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