



# Elite CS-18

## High Power DC-8GHz Multi - Throw Switch

### SP7T and SP8T versions only

#### Normally Open

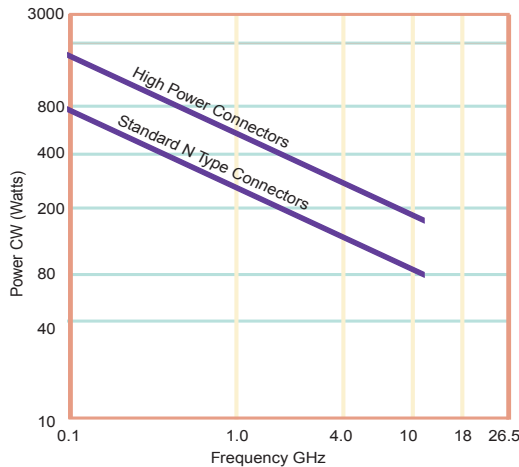
The CS-18 Switch is a broadband multi-position coaxial switch designed to switch RF signals from one input port to any one of 3 through 8 output ports. It is readily adapted to any 50 Ohms transmission line system. The standard actuator gives individual solenoid control of each position and when de-energized, all positions are open. Standard actuator voltage is 28 VDC. The primary advantage of this switch over the miniature versions shown on previous pages is the higher power handling capability.

### Specifications

<b>RF Contacts:</b>	Break before make			
<b>Actuator</b>	Voltage (VDC) 20°C	12	15	28
	Current (mA)	600	480	270
<b>Switching Time:</b>	20 msec max			
<b>Connectors:</b>	SMA (f), TNC(f), N Type (f)			
<b>Weight:</b>	14 oz. max (8 Position)			
<b>Temperature Range:</b>	-55°C to +85°C (Operating)			
<b>Shock:</b>	MIL-STD-202 Method 213, Condition D (500G Non Operating)			
<b>Vibration:</b>	MIL-STD-202 Method 214, Condition D (10G RMS Non Operating)			
<b>Humidity:</b>	Moisture Seal Available			
<b>MTBF:</b>	4.6 Million Hours ( MIL-HDBK-217F Fixed, 25°C, <1 Cycle per hour)			

SP3T to SP6T version available. See additional datasheets

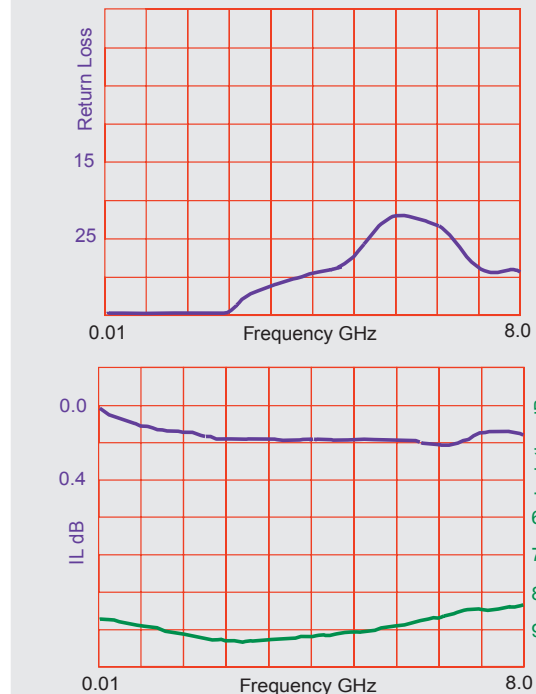
### RF Power Handling



### Specifications

	DC-1 GHz	1-4 GHz	4-8 GHz
VSWR (max)	1.25:1	1.40:1	1.70:1
Insertion Loss (min)	0.30 dB	0.40 dB	0.50 dB
Isolation (max)	70.0 dB	60.0 dB	60.0 dB

### Typical Performance

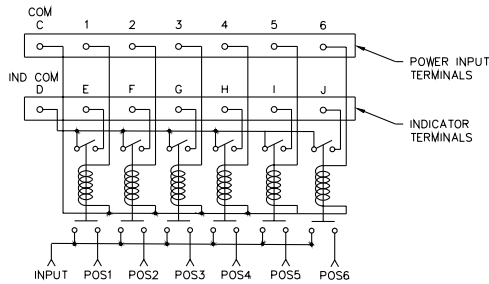


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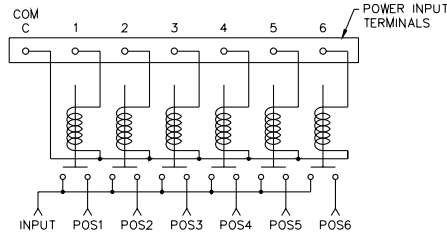
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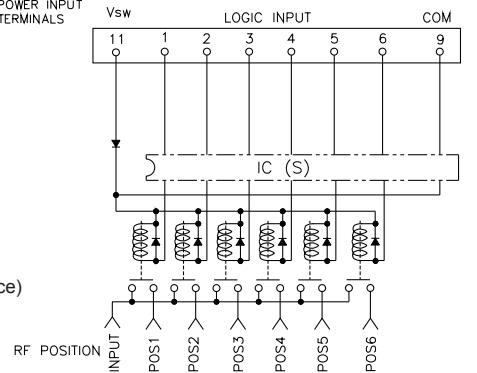
#### Normally Open



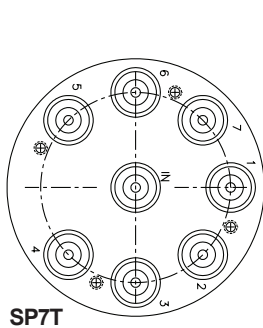
**Indicator**  
(Number of ports reduced for convenience)



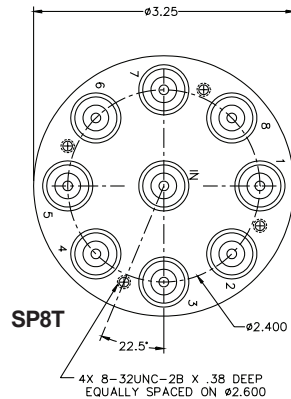
**Analog**  
(Number of ports reduced for convenience)



**TTL**  
(Number of ports reduced for convenience)

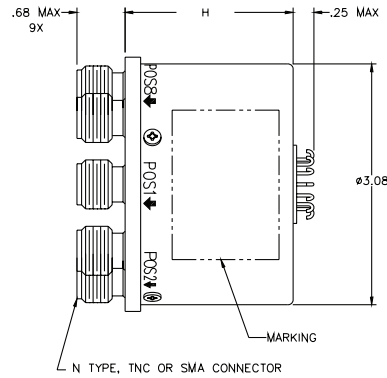


**SP7T**

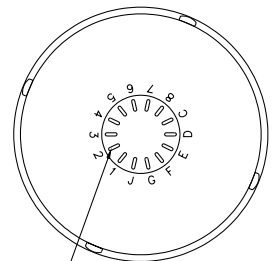


**SP8T**

4X 8-32UNC-2B X .38 DEEP  
EQUALLY SPACED ON 2.600

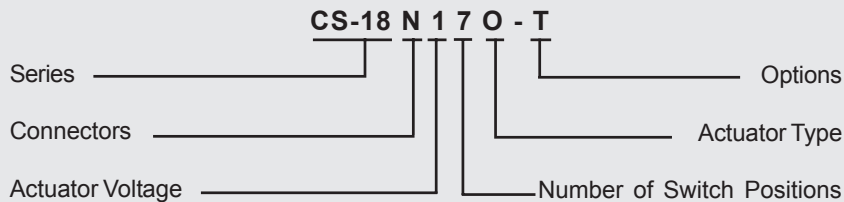


H = 2.15 STD Model  
H = 2.65 TTL Model



14X SOLDER TERMINALS  
SOLDER WIRE USING SN63.  
MAXIMUM TEMP 210°C FOR  
NO MORE THAN 5 SEC.

### Part Numbering System for CS-18 (Normally Open)



<b>Connector</b>	<b>Actuator Voltage</b>
S: SMA Female	1: 28Vdc Normally Open
N: N type Female	2: 15Vdc Normally Open
T: TNC Female	3: 12Vdc Normally Open

<b>Number of Positions</b>	<b>Actuator Type</b>
7: SP7T	O: No Indicator Contacts
8: SP8T	C: Indicator Contacts

<b>Options</b>
T: TTL Drivers with Diodes
R: Positive + Common
TD: TTL Driver with Decoder

For other options contact Factory

For SP3T to SP6T see additional datasheet



Specifications subject to change without notice.

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