



# Elite CS-47

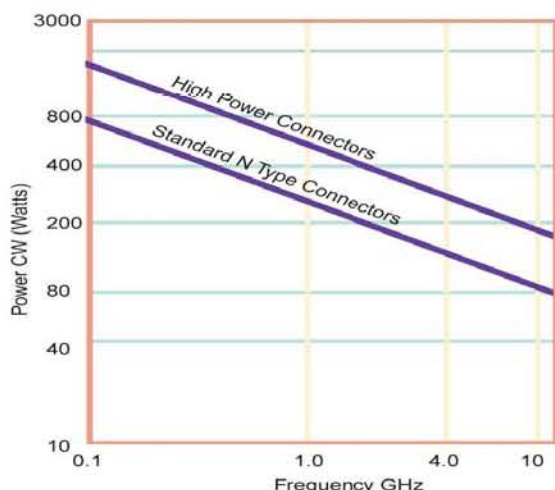
## High Power Transfer DC-12GHz

### Latching

The Type CS-47 is a long life, high performance transfer or crossover switch designed for use in 50 Ohms coaxial transmission lines. The switch is available with either failsafe or latching type actuation operating from a variety of voltage supplies. The primary advantage of this switch over the miniature versions shown on previous pages, is the higher power handling capability.

### Specifications

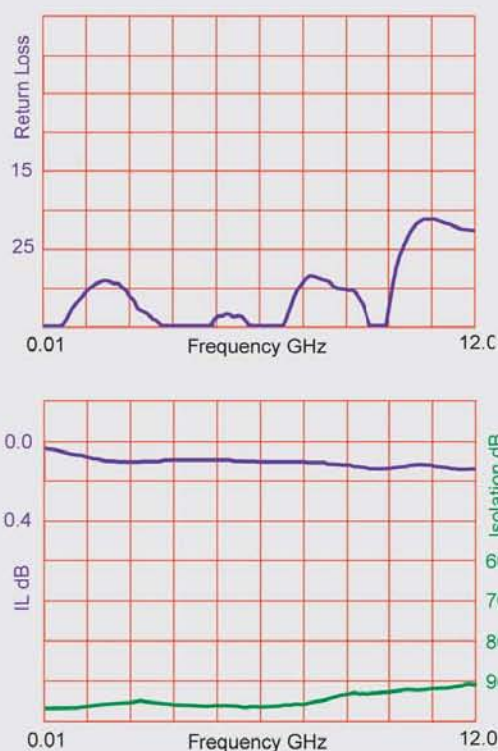
|                              |                                                             |     |     |    |
|------------------------------|-------------------------------------------------------------|-----|-----|----|
| <b>RF Contacts:</b>          | Break before make                                           |     |     |    |
| <b>Actuator</b>              | Voltage (VDC) 20°C                                          | 12  | 15  | 28 |
|                              | Current (mA)                                                | 160 | 130 | 60 |
| <b>Switching Time:</b>       | 15 msec max                                                 |     |     |    |
| <b>Connectors:</b>           | N-Type (f), TNC (f)(max frequency 11GHz only) or SMA(f)     |     |     |    |
| <b>Weight:</b>               | 6 oz. max                                                   |     |     |    |
| <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>Typical Contact Life:</b> | 5 Million Cycles                                            |     |     |    |
| <b>RF Power Handling:</b>    |                                                             |     |     |    |



### Specifications

|                      | DC-1 GHz | 1-4 GHz | 4-12 GHz |
|----------------------|----------|---------|----------|
| VSWR (max)           | 1.25:1   | 1.40:1  | 1.80:1   |
| Insertion Loss (min) | 0.30 dB  | 0.40 dB | 0.50 dB  |
| Isolation (max)      | 70.0 dB  | 60.0 dB | 60.0 dB  |

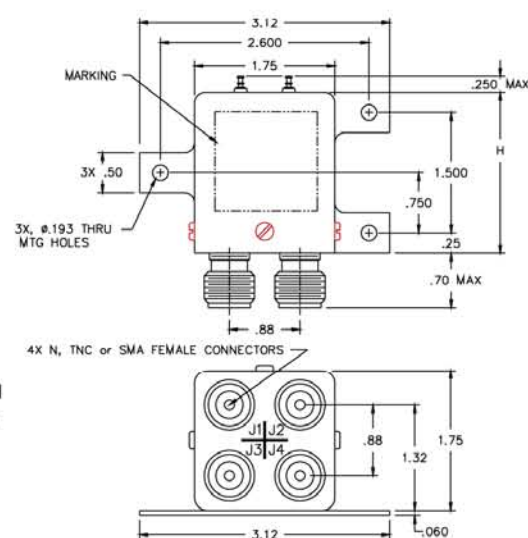
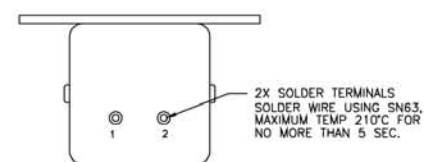
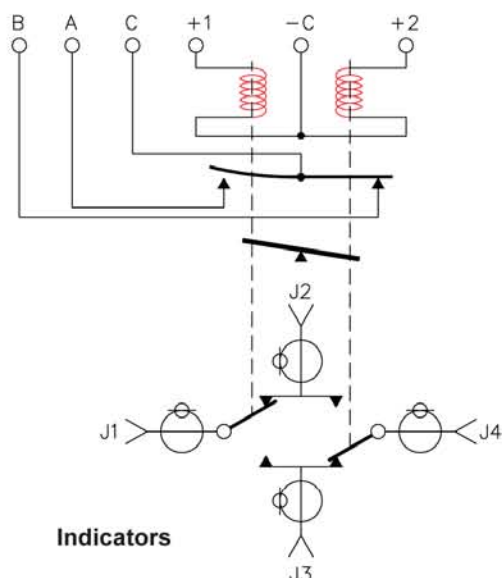
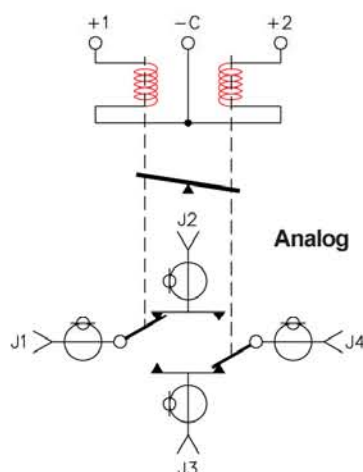
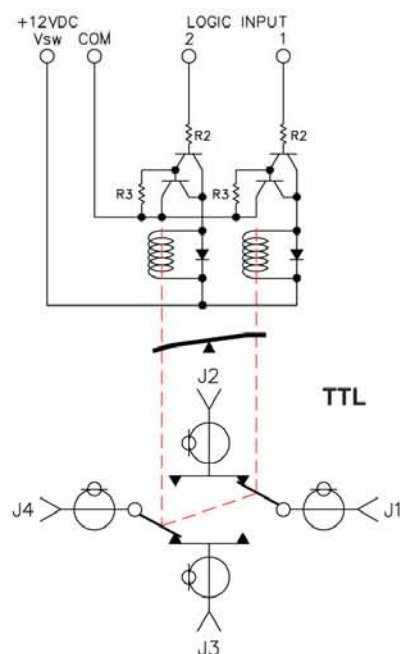
### Typical Performance



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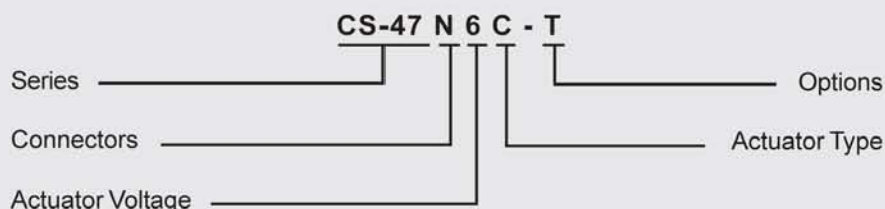
## High Power Transfer DC-12GHz

### Latching



H = 2.10 STD Model  
H = 2.60 TTL Model

### Part Numbering System for CS-47 (Latching)



#### Connector

S: SMA Female  
N: N Type Female  
T: TNC Female (11GHz)

#### 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