

Failsafe/Latching

❖ Features

- DC-18 GHz
- Low VSWR
- Low Loss
- High Isolation
- SMA(f) connectors

❖ RF Characteristics

| Frequency | Ins. Loss | Isolation | VSWR | Average Power |
|-----------|-----------|-----------|------|---------------|
| GHz | dB | dB | | W |
| DC~6 | 0.2 | 70 | 1.2 | 80 |
| 6~12 | 0.3 | 70 | 1.3 | 60 |
| 12~18 | 0.4 | 60 | 1.4 | 50 |

Operating Voltage/Coil Current

| Operating Voltage(V) | | 12 | 24 | 28 |
|----------------------|----------|-----|-----|-----|
| Current (mA) | Failsafe | 195 | 100 | 95 |
| | Latching | 230 | 140 | 120 |

| TTL | Low(V) | High | |
|-----|--------|------|------|
| | 0~0.3 | 3~5V | 20mA |

| Indicator Rating | V(max) | mA(max) | Ω(max) |
|------------------|--------|---------|--------|
| | 50 | 100 | 15 |

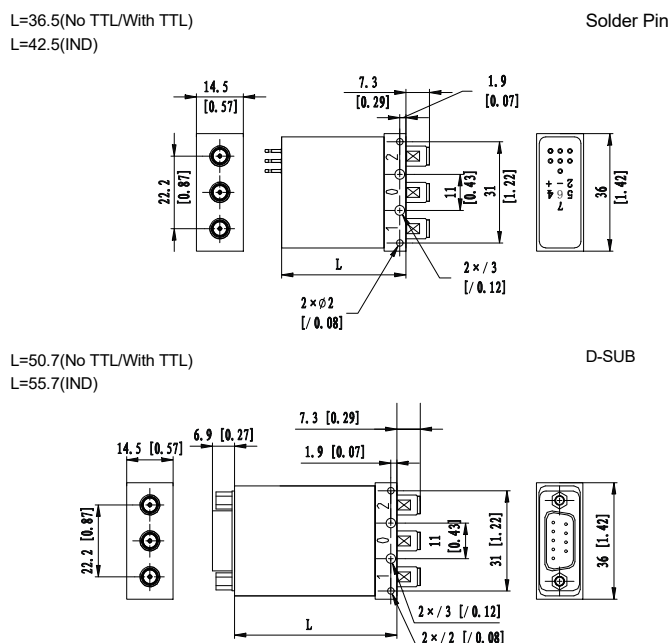
* +Vdc and GND must be connected to operate



❖ Specifications

| | |
|-----------------------|--------------------------------|
| Frequency Range | DC-18 GHz |
| Impedance | 50 Ohms |
| Switching Sequence | Break Before Make |
| Switching Time | 15mS max |
| Operating Life | 2 million cycles |
| Shock, Non-operating | 50G, ½ Sine, 11ms |
| Vibration, Operating | 20-2000Hz, 10G RMS |
| RF Interface | SMA female |
| Control Connector | Solder pins/D-SUB 9Pin Male |
| Storage Temperature | -55°C~+85°C |
| Operating Temperature | -25°C~+65°C (Standard) |
| | -45°C~+85°C (Extended Temp. 1) |
| | -55°C~+85°C (Extended Temp. 2) |
| Weight | 45g |

❖ Outline Drawing [mm[inch]]



❖ Ordering Information

TCS2 - S F 18 24 - 1 0 1

Connectors

S: SMA female

Actuator

F: Failsafe
L: Latching

Frequency

6: DC~6GHz
8: DC~8GHz
12: DC~12.4GHz
18: DC~18GHz

Voltage

5: 5V
12: 12V
24: 24V
28: 28V

Special Options

0: Ground Plane
1: TTL Driver
2: Positive Common
3: Self Cut-off
4: Ground Plane & IND
5: TTL Driver, IND
6: Positive Common & IND

(IND=Indicators)

Temperature

0: Standard
1: -45~+85°C
2: -55~+85°C

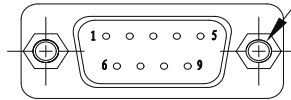
Actuator Terminals

0: Solder pins
1: D-SUB 9PIN Male

2 × UNC#4-40▽4

Failsafe/Latching

[Depth 0.157]



DB9 male

Truth Table

FAILSAFE W/O TTL

| Solder pins/D-SUB 9Pin Male | Pin No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8~9 |
|-----------------------------|--------------|--------|-----|-----|--------|--------|---------|-----|-----|
| | Description | V | N/A | GND | IND 1 | IND 2 | IND COM | VDC | N/A |
| RF Path | OFF / RF 1-0 | RF 2-0 | - | - | RF 1-0 | RF 2-0 | - | - | - |

FAILSAFE W/ TTL

| Solder pins/D-SUB 9Pin Male | Pin No. | 1 | 2 | 3 | 4 | 5 | 6 | 7~9 |
|-----------------------------|--------------|--------|-----|-----|--------|--------|---------|-----|
| | Description | VDC | TTL | GND | IND 1 | IND 2 | IND COM | N/A |
| RF Path | OFF / RF 1-0 | RF 2-0 | - | - | RF 1-0 | RF 2-0 | - | - |

LATCHING W/O TTL

| Solder pins/D-SUB 9Pin Male | Pin No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8~9 |
|-----------------------------|-------------|--------|--------|-----|--------|--------|---------|-----|-----|
| | Description | V1 | V2 | GND | IND 1 | IND 2 | IND COM | VDC | N/A |
| RF Path | - | RF 1-0 | RF 2-0 | - | RF 1-0 | RF 2-0 | - | - | - |

LATCHING W/ TTL

| Solder pins/D-SUB 9Pin Male | Pin No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8~9 |
|-----------------------------|-------------|-----|--------|-----|--------|--------|--------|---------|-----|
| | Description | VDC | TTL | GND | TTL | IND 1 | IND 2 | IND COM | N/A |
| RF Path | - | - | RF 1-0 | - | RF 2-0 | RF 1-0 | RF 2-0 | - | - |