

Failsafe/Latching

❖ Features

- DC-12.4 GHz
- Low VSWR
- Low Loss
- High Isolation
- N(f) connectors

❖ RF Characteristics

Frequency	Ins. Loss	Isolation	VSWR	Average Power
GHz	dB	dB		W
DC~5	0.3	70	1.3	350
5~12.4	0.5	60	1.5	250

Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Current (mA)	Failsafe	300	180	150
	Latching	320	180	150

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

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

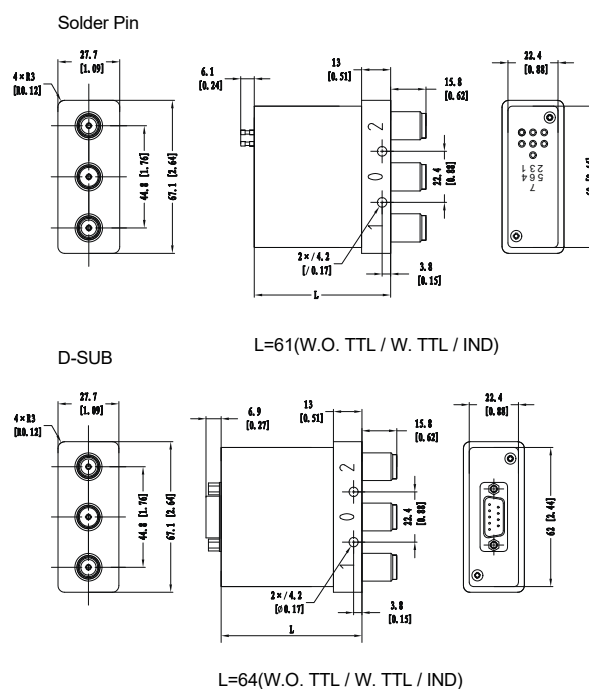
* +Vdc and GND must be connected to operate



❖ Specifications

Frequency Range	DC-12.4 GHz
Impedance	50 Ohms
Switching Sequence	Break Before Make
Switching Time	15mS max
Operating Life	2 million cycles
Shock, Non-operating	50G, 1/2 Sine, 11ms
Vibration, Operating	20-2000Hz, 10G RMS
RF Interface	N 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	250g

❖ Outline Drawing[mm[inch]]



❖ Ordering Information

TCS2H - N F 12 24 - 1 0 1

Connectors

N: N female

Actuator

F: Failsafe
L: Latching

Frequency

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

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

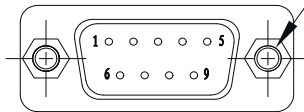
Actuator Terminals

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

Failsafe/Latching

2 × UNC#4-40▽4

[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	-	-