

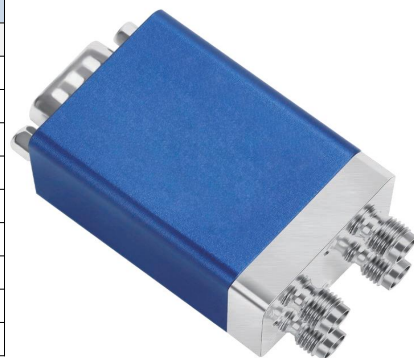
Failsafe/Latching

❖ Features

- DC-53 GHz
- Low VSWR
- Low Loss
- High Isolation
- 1.85mm(f) connectors
- Bracket (Optional)

❖ RF Characteristics

Frequency	Ins. Loss	Isolation	VSWR	Average Power
GHz	dB	dB		W
DC~6	0.3	70	1.2	50
6~12	0.4	70	1.3	40
12~18	0.5	60	1.3	40
18~26.5	0.7	55	1.4	20
26.5~32	0.8	50	1.4	20
32~40	0.9	50	1.7	10
40~43	1.0	50	1.7	10
43~50	1.2	50	1.8	5
50~53	1.5	50	1.8	5



Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28
Current (mA)			
Failsafe	350	200	180
Latching	400	200	185

TTL	Low(V)	High	
	0~0.3	3~5V	1.4mA

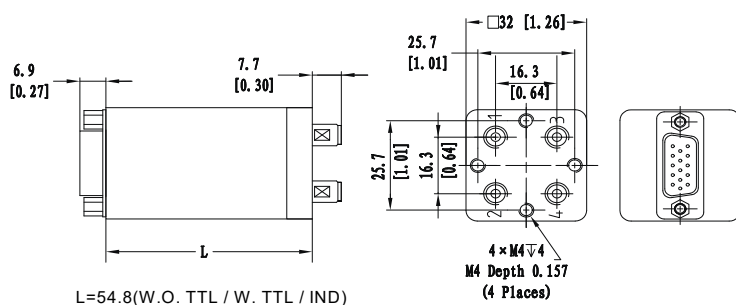
Indicator Rating	V(max)	mA(max)	Ω(max)
	50	100	15

\* +Vdc and GND must be connected to operate

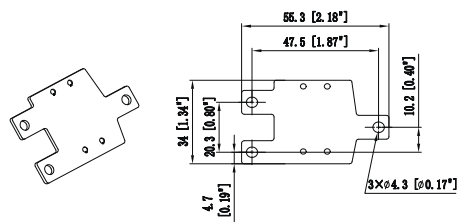
❖ Specifications

Frequency Range	DC-53 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	1.85mm female
Control Connector	D-SUB 15Pin 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	100g

❖ Outline Drawing[mm[inch]]



◆ Mounting Bracket



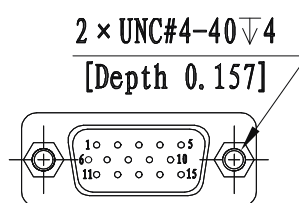
❖ Ordering Information

TCS22 - V L 53 12 - 1 0 S 1

Connector	Actuator	Frequency	Voltage	Spacial Options	Temperature	Installation	Actuator Terminals
V: 1.85mm(f)	F: Failsafe L: Latching	53: DC~53 GHz	5: 5V 12: 12V 24: 24V 28: 28V	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)	0: Standard 1: -45~+85°C 2: -55~+85°C	S: Standard B: Mounting Bracket	1: D-SUB 15PIN Male

Please feel free to contact us for more information regarding additional options and custom configurations

Failsafe/Latching



DB15 male

## Truth Table

## FAILSAFE W/O TTL

D-SUB 15Pin Male	Pin No.	1	2	3~11	12	13	14	15
	Description	GND	V	N/A	VDC	IND 1	IND 2	IND COM
RF Path	OFF/RF 1-2, 3-4	-	RF 1-3, 2-4	-	-	RF 1-2, 3-4	RF 1-3, 2-4	-

## FAILSAFE W/ TTL

D-SUB 15Pin Male	Pin No.	1	2	3	4~12	13	14	15
	Description	VDC	GND	TTL	N/A	IND 1	IND 2	IND COM
RF Path	OFF/RF 1-2, 3-4	-	-	RF 1-3, 2-4	-	RF 1-2, 3-4	RF 1-3, 2-4	-

## LATCHING W/O TTL

D-SUB 15Pin Male	Pin No.	1	2	3	4~11	12	13	14	15
	Description	V1	V2	GND	N/A	VDC	IND 1	IND 2	IND COM
RF Path	-	RF 1-2, 3-4	RF 1-3, 2-4	-	-	-	RF1-2,3-4	RF1-3,2-4	-

## LATCHING W/ TTL

D-SUB 15Pin Male	Pin No.	1	2	3	4	5~12	13	14	15
	Description	VDC	GND	TTL	TTL	N/A	IND 1	IND 2	IND COM
RF Path	-			RF 1-2, 3-4	RF 1-3, 2-4	-	RF1-2,3-4	RF1-3,2-4	-