

Failsafe/Latching

❖ Features

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

❖ RF Characteristics

Frequency	Ins. Loss	Isolation	VSWR	Average Power
GHz	dB	dB		W
DC~6	0.2	70	1.2	40
6~12	0.3	70	1.3	30
12~18	0.4	60	1.4	25
18~26.5	0.6	55	1.6	12
26.5~32	0.7	50	1.7	8
32~40	0.8	50	1.8	5
40~43	0.9	45	1.9	4
43~50	0.9	45	1.9	3
50~53	1.0	45	2.0	2



Operating Voltage/Coil Current

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

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

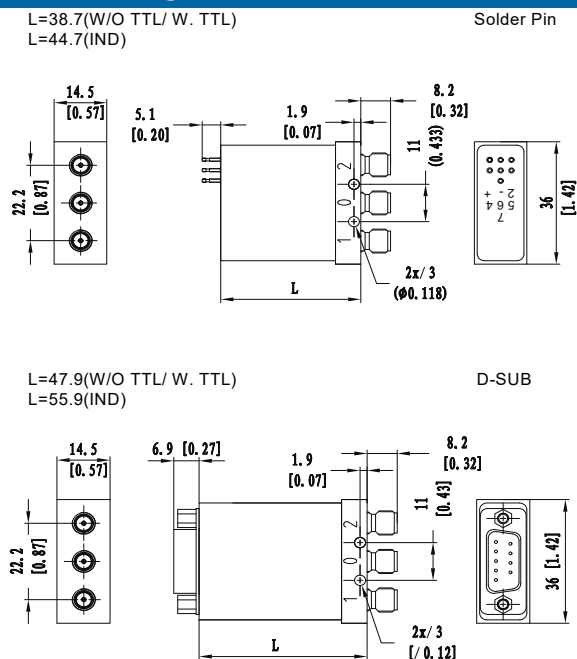
* +Vdc and GND must be connected to operate

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

❖ 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	Solder pins/D-SUB 9Pin Male
Storage Temperature	-55°C~+85°C
Operating Temperature	-25°C~+85°C (Standard)
	-45°C~+85°C (Extended Temp. 1)
	-55°C~+85°C (Extended Temp. 2)
Weight	50g

❖ Outline Drawing[mm[inch]]



❖ Ordering Information

TCS2 - V F 53 24 - 1 0 1

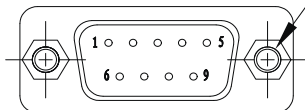
Connectors	Actuator	Frequency	Voltage	Special Options	Temperature	Actuator Terminals
V: 1.85mm female	F: Failsafe L: Latching	53: DC~53 GHz	5: 5V 12: 12V 24: 24V 28: 28V	0: Ground Plane 1: TTL Driver 2: Positive Common 3: Self Cut-off 4: Ground Plane & IND 5: TTL Driver & IND 6: Positive Common & IND (IND=Indicators)	0: Standard 1: -45~+85°C 2: -55~+85°C	0: Solder pins 1: D-SUB 9PIN Male

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

2 × UNC#4-40▽4

[Depth 0.157]

Failsafe/Latching



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	-	-