TCS2-40 Series

SPDT, DC~40 GHz, 2.92mm Female, Electro-Mechanical Switch

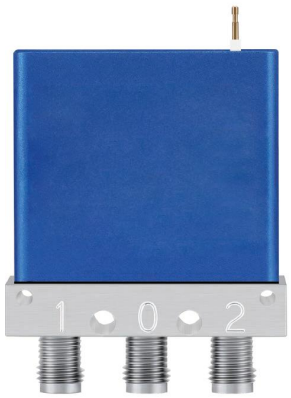
Failsafe/Latching

Features

- DC-40 GHz
- Low VSWR
- Low Loss
- High Isolation
- 2.92mm(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



Operating Voltage/Coil Curent

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

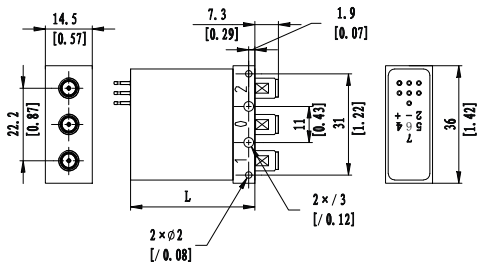
Specifications

Frequency Range	DC-40 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	2.92mm female
Control Connecter	Solder pins/D-SUB 9Pin Male
Storage Temperature	-55℃~+85℃
Operating Temperature	-25℃~+65℃ (Standard)
	-45℃~+85℃ (Extended Temp. 1)
	-55℃~+85℃ (Extended Temp. 2)
Weight	45g

Outline Drawing[mm[inch]]

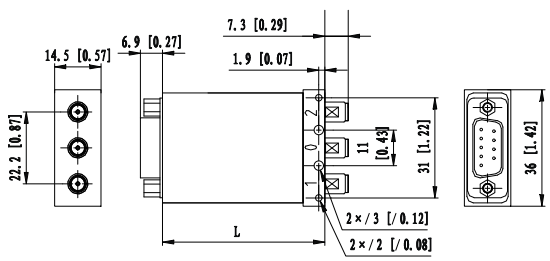
L=36.5(No TTL/With TTL)
L=42.5(IND)

Solder Pin



L=50.7(No TTL/With TTL)
L=55.7(IND)

D-SUB



Ordering Information

TCS2 - K F 40 24 - 1 0 1

Connectors
K: 2.92mm female

Actuator
F: Failsafe
L: Latching

Frequency
40: DC~40 GHz

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℃
2: -55~+85℃

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

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

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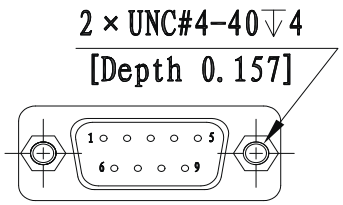
Failsafe/Latching



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	-	-

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