

## VMCSW-DC44-SP6T-4-12-2.92F

### FEATURES

- ◆ Broadband: DC~44GHz
- ◆ Lifecycle: Up to 2,000,000 cycles
- ◆ Excellent repeatability
- ◆ Low VSWR, low insertion loss, high isolation



### TYPICAL APPLICATIONS

- ◆ Aerospace and military
- ◆ Radar and satellite communications
- ◆ Testing
- ◆ Communications

### PRODUCT OVERVIEW

The SP6T series coaxial switch is a product line characterized by high reliability, high isolation, and long service life. It features broad operating bandwidth, low VSWR, low loss, high isolation, and high power handling capability. It is widely applicable in fields such as aerospace/military, radar/satellite communications, semiconductor chip testing, 5G/6G communications, automated test systems, and electronic measurement instruments.

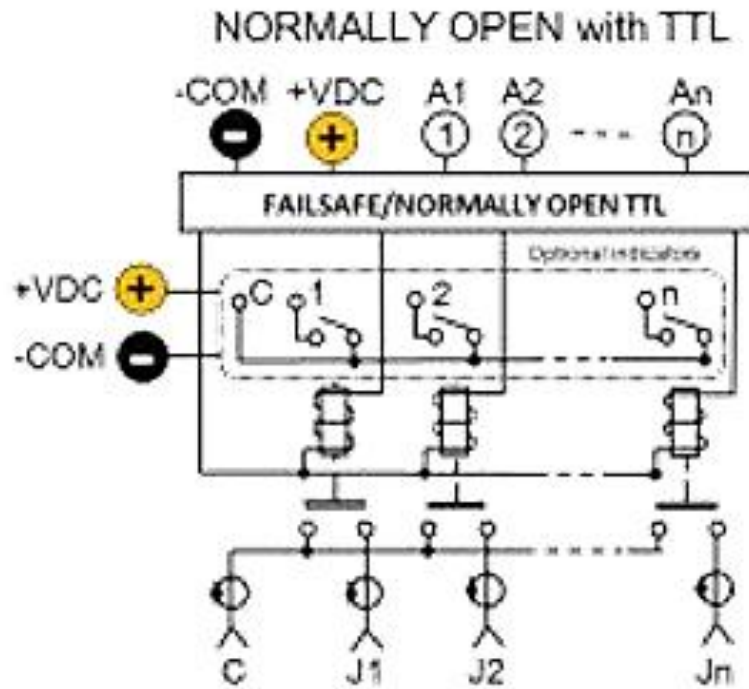
### ELECTRICAL SPECIFICATIONS

SP6T,DC to 44GHz,12V,TTL, D connector

Frequency (GHz)	Insertion Loss (dB Max)	VSWR (Max)	Isolation (dB Min)	Average Power Handling (W)	Impedance (Ω)
DC~6	0.30	1.30	70	40	50
6~12	0.40	1.40	70	32	50
12~18	0.50	1.50	60	28	50
18~26.5	0.60	1.60	55	12	50
26.5~32	0.70	1.70	50	8	50
32~44	0.80	1.80	50	4	50

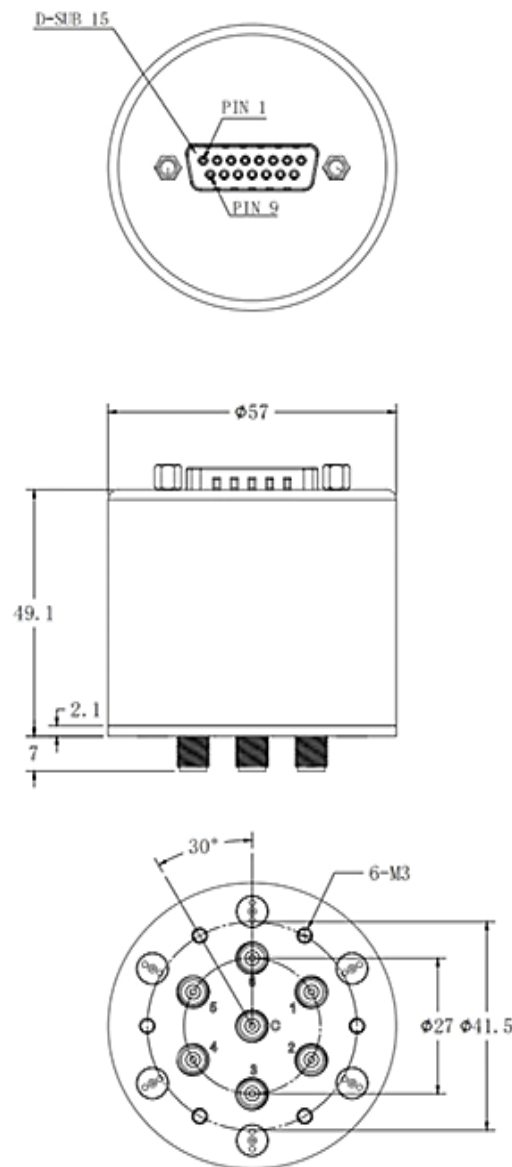
## CONTROL CHARACTERISTICS

PIN	Type	Mark	PIN	Type	Mark
Pin 1	TTL	C -1	Pin 6	TTL	C -6
Pin 2	TTL	C -2	Pin 7	Control	
Pin 3	TTL	C -3	Pin 15	12V	
Pin 4	TTL	C -4	Pin 8 - 14	NA	
Pin 5	TTL	C -5			



## OUTLINE DRAWING

Unit: mm



## IMPORTANT NOTES

1. ESD Sensitive Device: This product is sensitive to electrostatic discharge (ESD). Proper ESD precautions must be observed during storage, transportation, and use.
2. Non-Hermetic Seal: This product is not hermetically sealed. Measures must be taken to prevent moisture and rain ingress. It should be stored in a dry, dust-free environment.
3. Power and Control Inputs: Before use, carefully check the voltage and current requirements for the power supply and control pins to avoid incorrect connections or exceeding maximum ratings.
4. RF Connector Handling: The RF ports are precision female connectors. They must only be mated with compatible male connectors. A torque wrench should be used to tighten the mating connector's nut to the specified value.
5. Specification Changes: The technical specifications of the above product are subject to change without prior notice.