

VMCSW-DC/18-SPDT-55-28-SMAF

FEATURES

◆ Broadband: DC~18GHz

◆ 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 SPDT 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

SPDT, DC~18GHz, 28V, Failsafe, Terminal Post

Frequency (GHz)	Insertion Loss (dB Max)	VSWR (Max)	Isolation (dB Min)	Average Power Handling (W)	Impedance (Ω)
DC~6	≤0.20	≤1.20	≥70	≤85	50
6~12	≤0.30	≤1.30	≥70	≤70	50
12~18	≤0.40	≤1.40	≥60	≤55	50

CONTROL CHARACTERISTICS

Control Mode (\/de)	Voltage-driven
Control Mode (Vdc)	Failsafe
Voltage (DC)	28V
Current (mA)	≤120mA (Dc) @20°C
Control Interface	Terminal Post



MECHANICAL CHARACTERISTICS

RF Connector	SMA-F (Female)
Cycles	≥2,000,000
Switching Time (ms)	≤15
Weight	≤70g

ENVIRONMENTAL CHARACTERISTICS

Operating Temperature	-45°C ~ +65°C (Standard)	
Storage Temperature	-55°C ~ +85°C	
Moisture	5 ~ 85%	
Ingress Protection	IP63	
Shock (Unpowered)	50G, 1/2 Sine, 11ms	
Vibration (Powered)	10G RMS, 20-2000Hz	

PIN DEFINITION

Pin Number	Definition	RF Channel
Pin -	GND	
Pin +	+12V	C-1 On
Unpowered		C-2 On

OUTLINE DRAWING

Unit: mm

