
VMSWDC18G4T-N18-12D1-2SF-S

RF Coaxial Switches

Specifications

Product Introduction

SP4T series coaxial switch is a series of single-pole four-throw switches with high reliability, high isolation and long life. It has the characteristics of working frequency bandwidth, low VSWR, small loss, high isolation, high power, etc., and can be widely used in aerospace and military industry, radar satellite communication, semiconductor chip testing, 5G/6G communication, automatic test system, electronic measuring instruments and other fields.

Features:

- ▶ DC~18GHz
- ▶ Lifespan up to 2,000,000 times
- ▶ Good repeatability
- ▶ Low VSWR, low insertion loss, high isolation

PN					
VMSWDC18G4T-N18-12D1-2SF-S		SP4T,DC ~ 18GHz,12V,D-SUB			
Frequency (GHz)	IL (dB)	VSWR (Max)	Isolation (dB Min)	Pavg (W)	Impedance(Ω)
DC~6	≤ 0.30	≤ 1.30	≥ 70	≤ 85	50
6~12	≤ 0.40	≤ 1.40	≥ 60	≤ 65	50
12~18	≤ 0.50	≤ 1.50	≥ 60	≤ 55	50

Electronically controlled features

Control type (Vdc)	Voltage driven
	Normally open
Vdd (DC)	12V
Idd (mA)	$\leq 290\text{mA(Dc)}@20^{\circ}\text{C}$
Control connector	D-SUB, 2 rows 15pin Male

Mechanical properties

RF connector	SMA-F
Switch life	$\geq 2,000,000$
Switch time (ms)	≤ 15
Weight	$\leq 190\text{g}$

Environmental characteristics

Operating temperature	-45°C to $+65^{\circ}\text{C}$ (Standard)
Storage temperature	-55°C to $+85^{\circ}\text{C}$
Humidity	5 to 85%
Ingress protection	IP63
Shock (power outage)	50G, 1/2 Sine, 11msec
Vibration (energized)	10G RMS, 20-2000Hz

Pin definition

	Node definition	RF channel
Pin 1	+12V	C-1
Pin 2	+12V	C-2
Pin 4	+12V	C-4
Pin 5	+12V	C-5
Pin 7	GND	
Pin3, 6, 8-15	N/A	

Unit: mm

