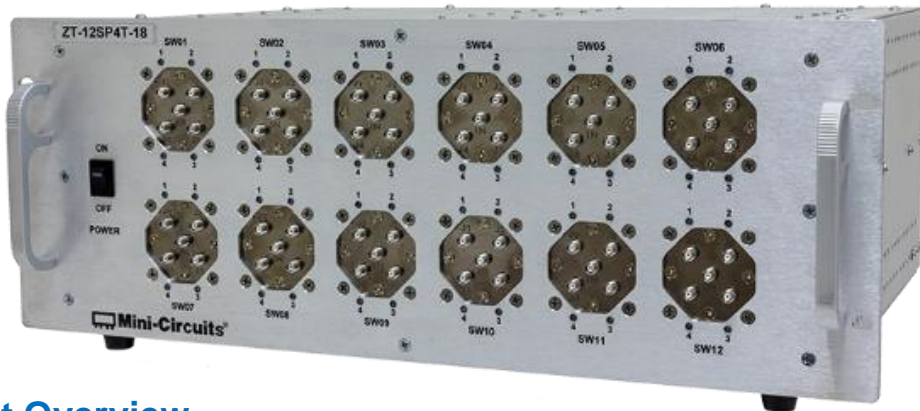# 12 x SP4T Switch Rack

ZT-12SP4T-18

50Ω   DC to 18 GHz

Product Overview

ZT-12SP4T-18 is a flexible switch rack, providing 12 independent mechanical SP4T switches on the front panel. Each switch is of a high reliability, fail-safe design, operating from DC to 18 GHz with low loss and high isolation. The model is housed in a compact 4U height, 19-inch rack chassis with SMA RF connectors on the front panel.

The system can be controlled via USB or Ethernet (supporting both HTTP and Telnet network protocols). Full software support is provided, including our user-friendly GUI application for Windows and a full API with programming instructions for Windows and Linux environments (both 32-bit and 64-bit systems).

Electrical Specifications at 25°C, per Switch

Parameter	Condition	Min.	Typ. (Note 1)	Max.	Unit
Frequency Range		DC	—	18	GHz
Insertion Loss	DC - 1 GHz	—	0.10	0.20	dB
	1 - 8	—	0.15	0.30	
	8 - 12	—	0.25	0.40	
	12 - 18	—	0.50	0.80	
Isolation	DC - 1 GHz	85	105	—	dB
	1 - 8	80	100	—	
	8 - 12	75	95	—	
	12 - 18	60	80	—	
VSWR (Note 2,3)	DC - 1 GHz	—	1.05	1.10	:1
	1 - 8	—	1.20	1.40	
	8 - 12	—	1.20	1.40	
	12 - 18	—	1.30	1.60	
Switching Lifetime Hot Switching	0.1W	10 million	—	—	cycles
	1.0W	—	1 million	—	
RF Power Cold Switching	—	—	—	20	W

Notes
1. The performance values represents a common value for the frequency range. For typical performance across the frequency band, see performance graphs in the next page.
2. All ports, all states
3. For port IN in Energized state only.

Please contact *testsolutions@minicircuits.com* for support