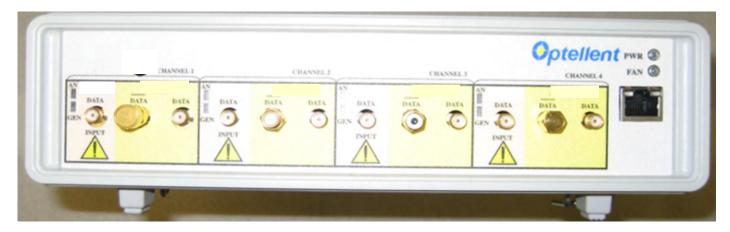


ORS- Series Multi-channel RF Switch



Overview

The OPTELLENT ORS-Series Multi-channel RF Switch is a cost-effective easy-to-use switch solution for testing components and systems in R&D and manufacturing environments. RF connections are routed through an absorptive switch network capable of fast and reliable switching. Multiple channels can be re-arranged using software to achieve different configurations. The switch is available in bench-top and rack-mountable chassis.

An intuitive graphical user interface (GUI) enables easy point-and-click operation through an RS232 or USB interface. Software drivers are available for incorporating the switch into test automation suites using programs like LabVIEW, VisualBASIC, C, etc.

Applications

- ► Wireless and fiber optic testing
- Automated multi-channel testing of RF components, subsystems and systems
- Wireless and datacom network monitoring

Key Features

► Wide bandwidth

► High Reliability

Multi-channel options

Efficient and Easy-to-Use

RS232 or USB Interfaces

Switching Configurations

The switch is fully bi-directional and transparent to the underlying protocols in the RF signals.

The basic unit is a 2-to-1 RF switch. The System can be configured with 4 to 16 switches which can be operated in manual or automated modes using the software. The software also allows the creation of timing profiles to automatically trigger switching activity.

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Technical Specifications

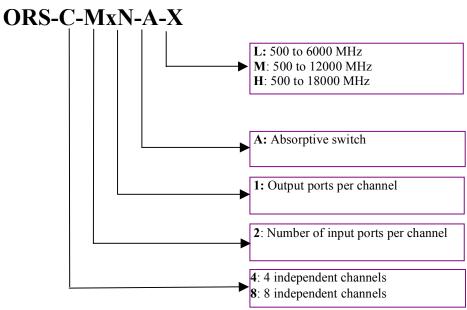
Parameter	Min	Тур	Max	Unit
Bandwidth ¹	500		18000	MHz
Insertion Loss ²	0.2		1.7	dB
Return Loss ³			20	dB
Isolation ²		60		dB
Input IP3		49		dBm
Input 1 dB Compression		24		dBm
Switching time ⁴			70	ns

¹ Available in different ranges; see ordering information

System and General Specifications

	Unit	Min	Тур	Max
Control interface		RS232 / USB		
RF Connectors		SMA female		
Operating Temperature	°C	0		70
Storage Temperature	°C	-40		85
Size (L x W x H)	mm ³		300 x 240 x 64	
Voltage	VAC		100 - 240	
Current	A		2	
Standard Warranty		12 Months		

Ordering Information



Example: ORS-4-2x1-A- L: 4-channel 2x1 RF Absorptive Switch for 500 to 6000 MHz

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Rev 1.0

² At 2000 MHz

³ ON state

⁴ Refers to switch component itself. Switching time from GUI change is on the order of milliseconds