

# RF2038

## RF Switch Box

### 6 x SPDT

### DC – 6 GHz



### OVERVIEW

The Ranatec RF2038 is a high-performance RF Switch box with six electromechanical coaxial latching SPDT-switches.

### APPLICATION

RF2038 is designed for applications such as:

- Production testing of mobile handsets
- Production testing of mobile basestations
- Built-In-Test (BITE) applications
- MIMO applications
- Automated test and measure
- Signal monitoring

### CONTROL INTERFACES

- Web-interface, for manual operations
- Textual (SCPI-like) API

All switches are controlled remotely via web-interface or API. It can be controlled from any computer in the network via TCP/IP sockets or via its internal web server. The communication protocol is very simple and independent from operating system, programming language etc.

### FEATURES

- Mechanical switches with high power and linearity
- DC - 6 GHz RF frequency range
- Insertion loss <0.3 dB @ 6 GHz
- 53 dBm maximum input power @ 6 GHz
- Insertion loss repeatability 0.03 dB over a life span of 10M switching cycles

### ELECTRICAL INTERFACES

Switch mode	Latching
Switching time	< 15 ms
Operating frequency	DC - 6 GHz
Impedance	50 Ohm
Max DC at RF inputs	0 VDC
VSWR (max)	1.15:1 @ DC-6 GHz
Insertion loss (max)	0.2 + (0.45/26.5)x freq(GHz) (dB)
Isolation (min)	85 dB @ DC-6 GHz
Input power thru (max)	53 dBm (cold switching)
Size	19", 3 HU
RF input/output connector	SMA (F)
Operating temperature	0 to 50°C
Storage temperature	-20 to 70°C
Relative humidity	95% at +40°C

### ORDERING

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