

# RF2037

## RF Switch Box

4 x SP6T  
2 x SPDT  
DC – 26.5 GHz



### OVERVIEW

The Ranatec RF2037 is a high-performance RF Switch box with six switches, four SP6T and two SPDT (terminated).

### APPLICATION

RF2037 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
- 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

- DC - 26.5GHz RF frequency range
- Insertion loss <0.7 dB @ 26.5GHz
- 46 dBm maximum input power @ 26.5GHz
- Mechanical switches with high power and linearity

### ELECTRICAL INTERFACES

Switch mode	Latching
Switching time	< 15 ms
Operating frequency	DC-26.5GHz
Impedance	50 Ohm
Max DC at RF inputs	0 VDC
VSWR (max)	1.20:1 @ DC-6GHz (SP6T) 1.35:1 @ 6-12.4GHz (SP6T) 1.45:1 @ 12.4-18GHz (SP6T) 1.70:1 @ 18-26.5GHz (SP6T) 1.15:1 @ DC-6GHz (SPDT) 1.25:1 @ 6-12.4GHz (SPDT) 1.30:1 @ 12.4-20GHz (SPDT) 1.60:1 @ 20-26.5GHz (SPDT)
Insertion loss (max)	0.3 + 0.015 x freq(GHz) (dB) (SP6T) 0.2 + (0.45/26.5)x freq(GHz) (dB) (SPDT)
Isolation (min)	80dB @ DC-6GHz (SP6T) 70dB @ 6-12.4GHz (SP6T) 65dB @ 12.4-20GHz (SP6T) 60dB @ 20-26.5GHz (SP6T) 85dB @ DC-6GHz (SPDT) 75dB @ 6-12.4GHz (SPDT) 65dB @ 12.4-20GHz (SPDT) 60dB @ 20-26.5GHz (SPDT)
Input power thru (max)	46dBm @ 26.5GHz
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

RF2037

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