# ranatec

### DATA SHEET

## RI 2441 SWITCH MODULE

Solid State, SP4T, latching, terminated



#### SPECIFICATIONS

The RI 2441 is a solid state switch module with 1 pole and 4 throws. It is very well suited for high volume testing where long lifetime is required, without sacrificing RF performance. RI 2441 offers very good linearity, power handling and speed.

#### APPLICATION

**OVERVIEW** 

The RI 2441 Solid state switch module is designed for applications such as

- Production testing of mobile handsets
- Production testing of mobile basestations
  Duilt la Test (DITE) and listing
- Built-In-Test (BITE) applicationsMIMO applications

#### **CONTROL INTERFACE**

RI 2441, IDC10	Function
PIN 1	VCC*
PIN 2	Port 1**
PIN 3	Port 2**
PIN 4	Port 3**
PIN 5	Port 4**
PIN 6	NC
PIN 7	NC
PIN 8	NC
PIN 9	NC
PIN 10	GND

\* 5-45 VDC

\*\* Active low



Switch mode Switching time Supply voltage Supply current Operating frequency Impedance Max DC at RF inputs VSWR (max)

Insertion loss (max)

Isolation RFC-RFx (min)

Isolation RFx-RFy (min)

Input power thru path (max) Input power hot switching & into termination (max) Input IP3 (typ) Actuating current

Operating temp Storage temp Relative humidity Dimensions Weight Connectors SP4T latching, terminated < 100 µs 5-45 VDC < 1 mA DC - 6 GHz 50 Ohm 0 VDC 1.4:1 @ 0.01-0.698 GHz 1.3:1 @ 0.698-3 GHz 1.4:1 @ 3-6 GHz 1.6 dB @ 0.01-0.698 GHz 1.9 dB @ 0.698-3 GHz 2.2 dB @ 3-6 GHz 55 dB @ 0.01-0.698 GHz 40 dB @ 0.698-3 GHz 35 dB @ 3-6 GHz 55 dB @ 0.01-0.698 GHz 40 dB @ 0.698-3 GHz 30 dB @ 3-6 GHz

30 dBm @ 0.01-6 GHz

20 dBm @ 0.01-6 GHz 63 dBm @ 0.01-6 GHz  $< 50 \mu$ A (active low, input pulled up to 3 VDC) 0 °C to +50 °C -20 °C to +70 °C 95 % at +40 °C 50 x 50 x 30 mm 25 g SMA (f)

#### ORDERING

RI 2441	SP4T solid state switch module
RI 2441-02	Optional 90° mounting bracket
RI 2441-03	Optional cable
RI 2441-04	Protective cover

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