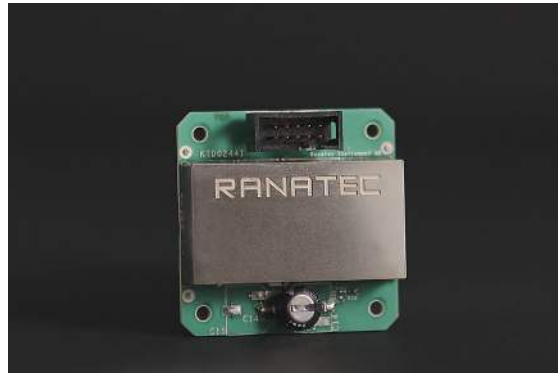


RI 2441

SWITCH MODULE

Solid State, SP4T,
latching, terminated



OVERVIEW

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

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

- Production testing of mobile handsets
- Production testing of mobile basestations
- Built-In-Test (BITE) applications
- MIMO 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



SPECIFICATIONS

| | |
|--|---|
| Switch mode | SP4T latching, terminated |
| Switching time | < 100 μ s |
| Supply voltage | 5-45 VDC |
| Supply current | < 1 mA |
| Operating frequency | DC - 6 GHz |
| Impedance | 50 Ohm |
| Max DC at RF inputs | 0 VDC |
| VSWR (max) | 1.4:1 @ 0.01-0.698 GHz 1.3:1 @ 0.698-3 GHz 1.4:1 @ 3-6 GHz |
| Insertion loss (max) | 1.6 dB @ 0.01-0.698 GHz 1.9 dB @ 0.698-3 GHz 2.2 dB @ 3-6 GHz |
| Isolation RFC-RFx (min) | 55 dB @ 0.01-0.698 GHz 40 dB @ 0.698-3 GHz 35 dB @ 3-6 GHz |
| Isolation RFX-RFy (min) | 55 dB @ 0.01-0.698 GHz 40 dB @ 0.698-3 GHz 30 dB @ 3-6 GHz |
| Input power thru path (max) | 30 dBm @ 0.01-6 GHz |
| Input power hot switching & into termination (max) | 20 dBm @ 0.01-6 GHz |
| Input IP3 (typ) | 63 dBm @ 0.01-6 GHz |
| Actuating current | < 50 μ A (active low, input pulled up to 3 VDC) |
| Operating temp | 0 °C to +50 °C |
| Storage temp | -20 °C to +70 °C |
| Relative humidity | 95 % at +40 °C |
| Dimensions | 50 x 50 x 30 mm |
| Weight | 25 g |
| Connectors | 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 |