

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.

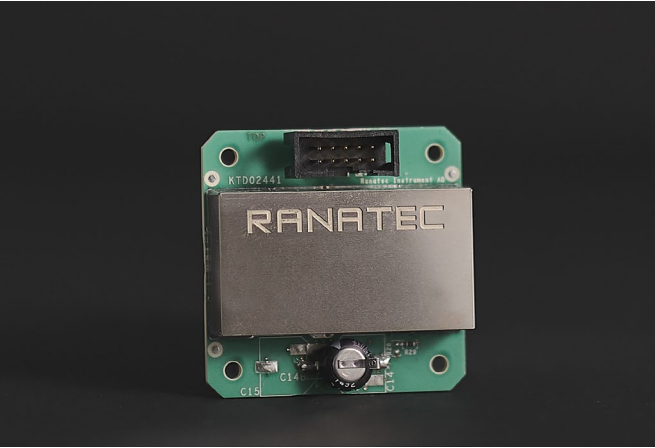
APPLICATION

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 (5-45VDC)
PIN 2	Port 1 Active low
PIN 3	Port 2 Active low
PIN 4	Port 3 Active low
PIN 5	Port 4 Active low
PIN 6	NC
PIN 7	NC
PIN 8	NC
PIN 9	NC
PIN 10	GND
Switch mode	SP4T latching, terminated
Supply voltage	5-45 VDC
Supply current	< 1 mA
Switching time	< 100 µs
Actuating current	< 50 µA (active low, input pulled up to 3 VDC)



Operating frequency	0.01-6 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	63 dBm @ 0.01-6 GHz
Operating temperature	0°C to +50°C
Storage temp	-20 °C to +70 °C
Relative humidity	95 % at +40 °C
Dimensions	50x50x30 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