RF SWITCH · DATASHEET

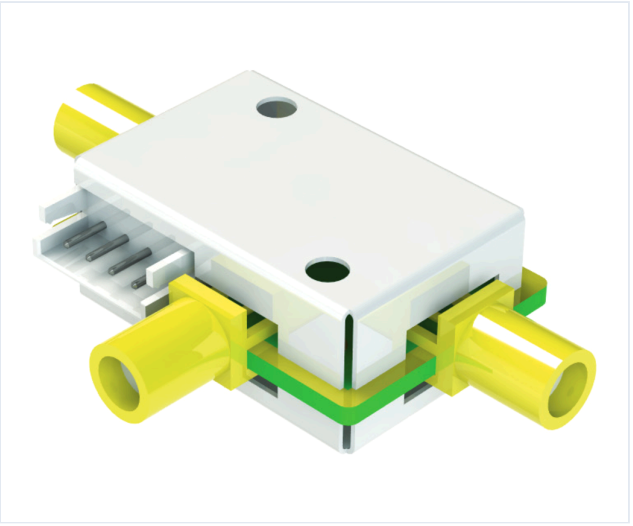
6 GHz SP2T RF Switch

RFS-692 | I/O CONTROLLED

Bluelec RFS-692 is a solid-state SP2T RF switch module covering 10 Hz to 6 GHz. It routes one common RF port to either of two selectable RF paths and terminates the unused path internally to 50 Ω for stable, predictable RF performance.

The simple I/O control interface enables straightforward digital control and easy integration into automated RF test systems. With solid-state switching, the RFS-692 eliminates mechanical contact wear and provides high repeatability over large numbers of switching cycles.

Designed for RF test and measurement environments ranging from laboratory use to automated production testing, the RFS-692 combines low insertion loss, high isolation, long operating life, and reliable electronic control in a compact switch module.



RF & DC SPECIFICATIONS

typical @ 25 °C

Operating frequency	**10 Hz – 6 GHz**
Impedance	**50 Ω**
RF connectors	**SMA (f)**
Input power (RF)	**1 W (CW)**
Supply voltage	**12 V**
Supply current (max, +12 V)	**10 mA**
Switching time	**<25 µs**

Frequency	Ins. loss	Ret. loss	Isolation
1 GHz	0.9 dB	21 dB	60 dB
3 GHz	1.2 dB	20 dB	50 dB
6 GHz	1.7 dB	19 dB	35 dB

Insertion & return loss, and isolation are typical values.

CONTROL INTERFACE

JST EH 4-pin

Pin	Signal
1	+12 VDC
2	CTRL1
3	NC
4	GND

CONTROL TABLE

COM to

CTRL1	RF1	RF2
0 V	**ON**	OFF
12 V	OFF	**ON**

MECHANICAL

Dimensions	**31.05 × 51 × 12.7 mm (1.22 × 2.01 × 0.50 in)**
Weight	**10 g (0.35 oz)**
Compliance	**RoHS**

ENVIRONMENTAL

Operating temperature	**0 – 50 °C**
Storage temperature	**−20 … +70 °C**
Relative humidity	**95 % at +40 °C**

3D CAD models available on request via **sales@bluelec.com**

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Specifications subject to change without notice.