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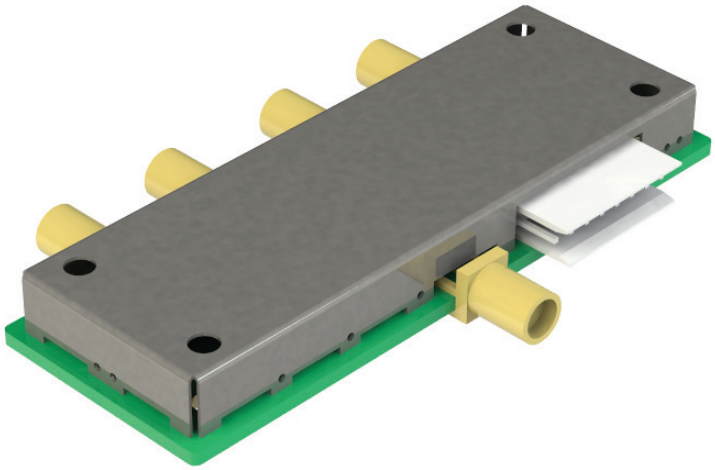
6GHz SP4T RF Switch I/O Controlled

RFS-1684



- Broad frequency range (10 Hz to 6 GHz) - great performance over whole frequency range
- Low insertion loss - critical for systems that require low overall noise figure
- High isolation - reduces system measurement uncertainties
- High repeatability - Improved measurement accuracy: no random errors
- Operating life - no mechanical stress; long operating life reduces cost per cycle
- Internal terminations - no resonation in unused lines; 50 ohm load termination

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APPLICATIONS

High performance RF switch for applications which require long operating life without risking RF performance, such as high volume testing.

RF CONNECTORS

SMA (f)

CONTROL INTERFACE

Supply and I/O

HE14 8PIN

Pin	Signal
1	+12 VDC
2	GND
3	NC
4	NC
5	CTRL1
6	GND
7	CTRL2
8	GND

CONTACT INFO

sales@bluelec.com

RF AND DC SPECIFICATIONS

Operating frequency	10 Hz - 6 GHz	
Impedance	50 ohm	
Insertion loss (typ.)	1 GHz 3 GHz 6 GHz	1.0 dB 1.7 dB 2.1 dB
Return loss (typ.)	1 GHz 3 GHz 6 GHz	20 dB 18 dB 15 dB
Isolation (typ.)	1 GHz 3 GHz 6 GHz	60 dB 50 dB 35 dB
Input power (RF)	1	W (CW)
Supply voltage	12	V
Supply current max (+12V)	10	mA
Switching time	<25	µs

CONTROL TABLE

I/O		COM to			
CTRL1	**CTRL2**	**RF1**	**RF2**	**RF3**	**RF4**
0 V	0 V	**ON**	OFF	OFF	OFF
0 V	12 V	OFF	**ON**	OFF	OFF
12 V	12 V	OFF	OFF	**ON**	OFF
12 V	0 V	OFF	OFF	OFF	**ON**

MECHANICAL SPECIFICATIONS

Dimensions	49.05 x 82 x 10.3 mm (1.93“ *3.23“*0.41“)
Weight	34 g (1.20 oz)

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	0-50 °C
Storage temperature	-20 ... +70 °C
Relative humidity	95 % at +40 °C