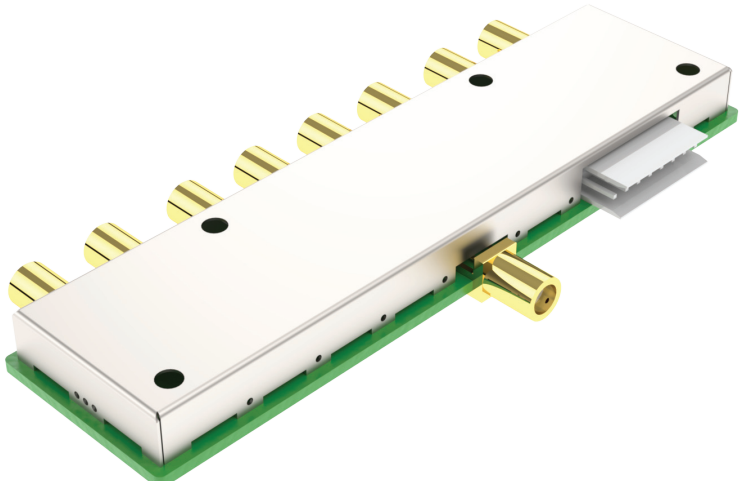
BLUELEC
Part of JOT Automation

8GHz SP8T RF Switch I/O Controlled

RFS-1969

- Broad frequency range (10 MHz to 8 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



© Copyright Bluelec Ltd. All Rights Reserved.

BLUELEC
Part of JOT Automation

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	NC
3	NC
4	CTRL1
5	CTRL2
6	CTRL3
7	CTRL4
8	GND

CONTACT INFO

sales@bluelec.com

RF AND DC SPECIFICATIONS

Operating frequency	10 MHz - 8 GHz	
Impedance	50 ohm	
Insertion loss (typ.)	1 GHz 3 GHz 6 GHz 8 GHz	1.1 dB 1.5 dB 2.3 dB 3.3 dB
Return loss (typ.)	1 GHz 3 GHz 6 GHz 8 GHz	20 dB 18 dB 15 dB 12 dB
Isolation (typ.)	1 GHz 3 GHz 6 GHz 8 GHz	50 dB 40 dB 35 dB 30 dB
Input power (RF)	1	W (CW)
Supply voltage	5 to 12	V
Supply current max (+12V)	10	mA
Switching time	<25	µs

MECHANICAL SPECIFICATIONS

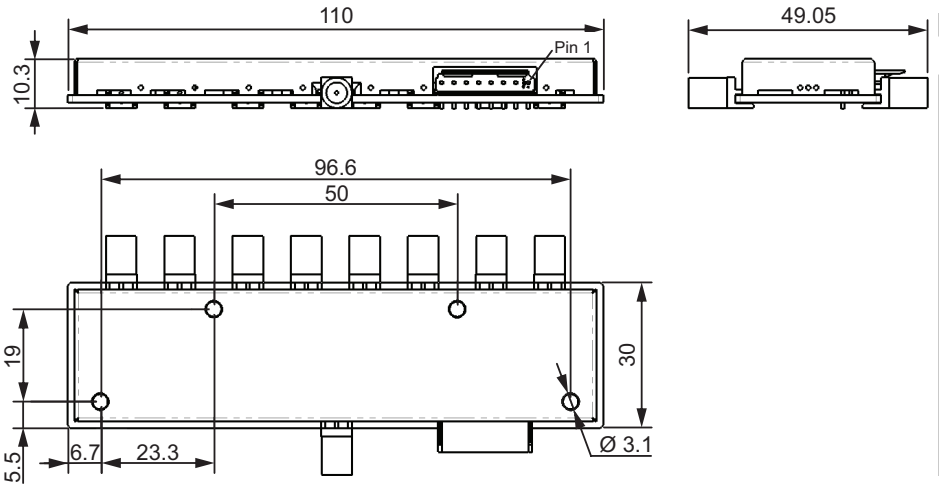
Dimensions	49.05 x 110 x 10.3 mm (1.93“ x 4.33“ x 0.41“)
Weight	46 g (1.62 oz)

ENVIRONMENTAL SPECIFICATIONS

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

CONTROL TABLE

I/O				COM to							
CTRL1	**CTRL2**	**CTRL3**	**CTRL4**	**RF1**	**RF2**	**RF3**	**RF4**	**RF5**	**RF6**	**RF7**	**RF8**
0 V	0 V	0 V	0 V	**ON**	OFF	OFF	OFF	OFF	OFF	OFF	OFF
0 V	0 V	12V	0 V	**OFF**	ON	OFF	OFF	OFF	OFF	OFF	OFF
0 V	12 V	0 V	0 V	**OFF**	OFF	ON	OFF	OFF	OFF	OFF	OFF
0 V	12 V	12 V	0 V	OFF	**OFF**	OFF	ON	OFF	OFF	OFF	OFF
12 V	0 V	0 V	0 V	OFF	OFF	**OFF**	OFF	ON	OFF	OFF	OFF
12 V	0 V	12 V	0 V	OFF	OFF	**OFF**	OFF	OFF	ON	OFF	OFF
12 V	12 V	0 V	0 V	OFF	OFF	**OFF**	OFF	OFF	OFF	ON	OFF
12 V	12 V	12 V	0 V	OFF	OFF	OFF	**OFF**	**OFF**	**OFF**	**OFF**	**ON**
0 V	0 V	0 V	12 V	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF



© Copyright Bluelec Ltd. All Rights Reserved.