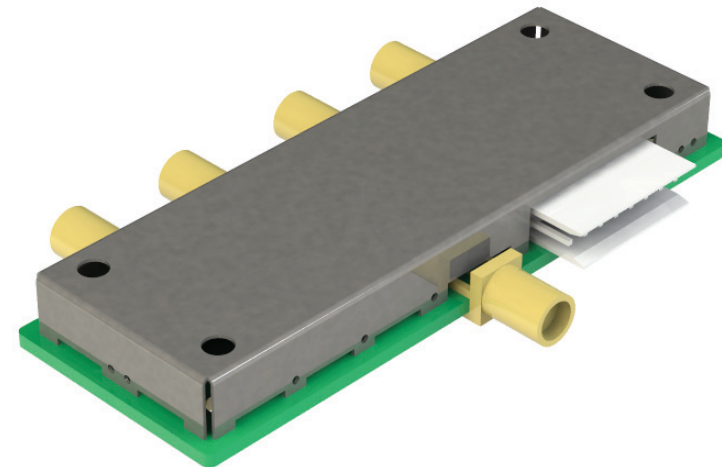


6GHz SP4T RF Switch I2C Controlled

RFS-777

- I²C interface: Easy control
- 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 resonance in unused lines; 50 ohm load termination



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	+5 VDC
2	A0
3	SDA
4	SCL
5	A1
6	GND
7	A2
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	1.0 dB
	3 GHz	1.7 dB
	6 GHz	2.1 dB
Return loss (typ.)	1 GHz	20 dB
	3 GHz	19 dB
	6 GHz	16 dB
Isolation (typ.)	1 GHz	60 dB
	3 GHz	50 dB
	6 GHz	35 dB
Input power (RF)	1	W (CW)
Supply voltage	4 - 6	V
Supply current max (+5V)	10	mA
Switching time	<50	µs

CONTROL TABLE

I2C	COM to			
	RF1	RF2	RF3	RF4
XXXXXX00	ON	OFF	OFF	OFF
XXXXXX10	OFF	ON	OFF	OFF
XXXXXX11	OFF	OFF	ON	OFF
XXXXXX01	OFF	OFF	OFF	ON

MECHANICAL SPECIFICATIONS

Dimensions	49.05 x 82 x 10.3 mm (1.93" * 3.23" * 0.41")
Weight	25 g (0.88 oz)

ENVIRONMENTAL SPECIFICATIONS

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

