

# SPST RF SWITCH

## MODEL TWGP2114

Available as: TWGP2114, 10 Lead Gull-Wing (SG18)  
 BXW2114, Connectorized Housing

### Features

- DC - 2.0 GHz
- Fast Switching Speed: 20 ns Typical
- Internal TTL Driver
- OperatingTemp. -55 °C to + 85 °C
- Screening to the Tables of MIL-STD-883 Available
- RF1 Terminated in "OFF" State

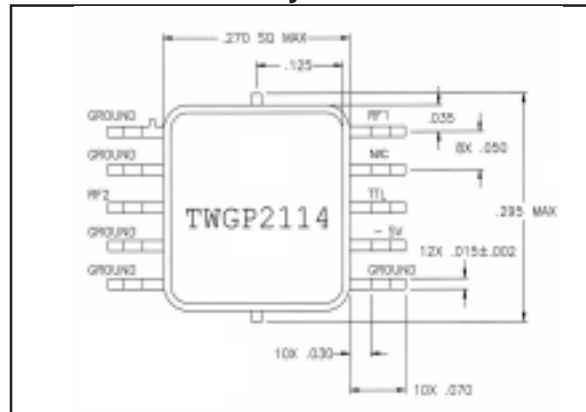
### Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	DC - 2.0 GHz	DC - 2.0 GHz
Insertion Loss (dB)	1.5	1.75 Max.
Isolation (dB)	> 38	35 Min.
VSWR	"ON"	2.0:1 Max.
RF1	"OFF"	1.5:1 Max.
DC Bias	Vdc mA	- 5 V 0.5
Switching Speed (nsec)	20	50 Max.

### Maximum (No Damage) Ratings

Ambient Operating Temperature ..... -55°C to + 100 °C  
 Storage Temperature ..... -65°C to + 125 °C  
 Case Temperature ..... + 125 °C  
 DC Voltage ..... - 6.0 Volts  
 Continuous RF Input Power ..... +30 dBm

### Pin Layout



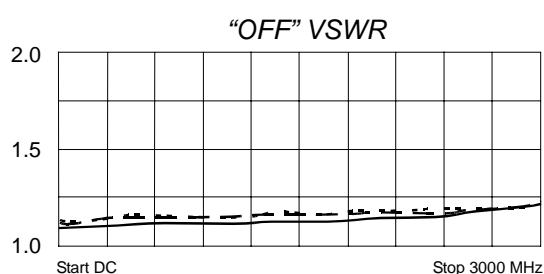
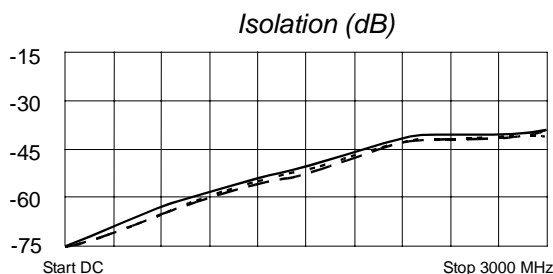
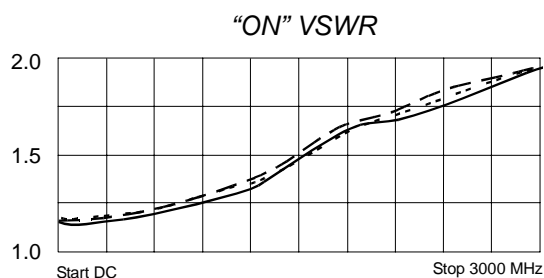
### Truth Table

Control Input	Switch Position
TTL	RF1 to RF2
1	ON
0	OFF

### Notes:

1. Care should always be taken to effectively ground the case of each unit.
2. -5V Bias must be applied before TTL Control.

### Typical Performance Data



Legend ——— +25 °C - - - +85 °C - - - - -55 °C



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532 04/18/06

www.SpectrumMicrowave.com Spectrum Microwave (Europe) · 2707 Black Lake Place · Philadelphia, Pa. 19154 · PH (215) 464-4000 · Fax (215) 464-4001