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
- Operating Temp. -55 ºC to + 85 ºC
- Screening to the Tables of MIL-STD-883 Available
- RF1 Terminated in "OFF" State

Maximum (No Damage) Ratings

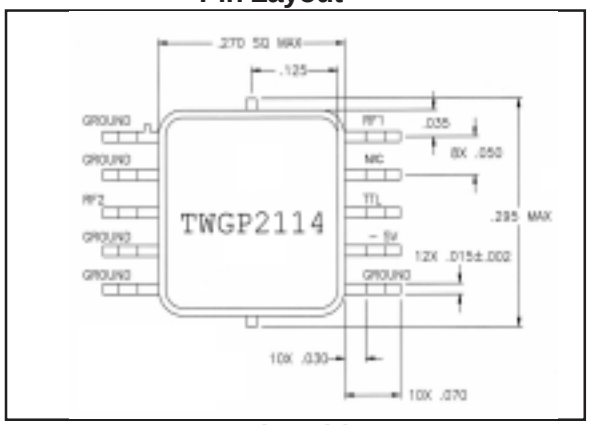
Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -65ºC to + 125 ºC
Case Temperature ..... + 125 ºC
DC Voltage ..... - 6.0 Volts
Continuous RF Input Power ..... +30 dBm

Specifications

CHARACTERISTIC		TYPICAL Ta = 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency		DC - 2.0 GHz	DC - 2.0 GHz
Insertion Loss (dB)		1.5	1.75 Max.
Isolation (dB)		> 38	35 Min.
VSWR RF1	"ON" "OFF"	1.8:1 1.25:1	2.0:1 Max. 1.5:1 Max.
DC Bias	Vdc mA	- 5 V 0.5	- 6 V Max. 1.2 Max.
Switching Speed (nsec)		20	50 Max.

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

Pin Layout

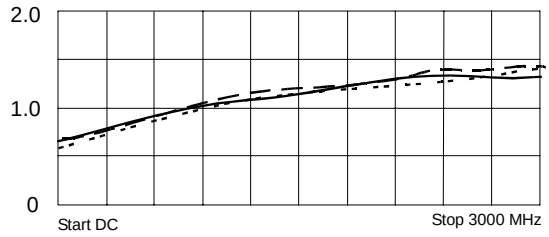


Truth Table

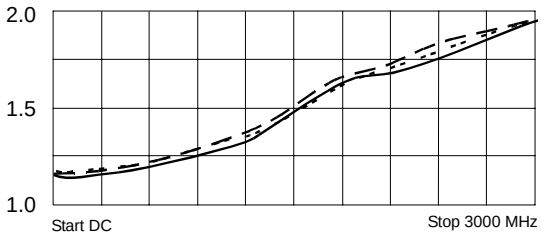
Control Input	Switch Position
TTL	RF1 to RF2
1	ON
0	OFF

Typical Performance Data

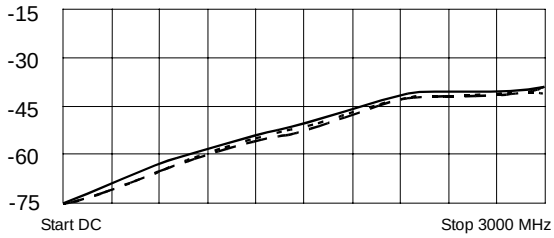
Insertion Loss (dB)



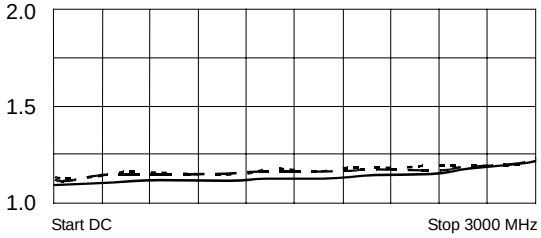
"ON" VSWR



Isolation (dB)



"OFF" VSWR



Legend ——— *+25 ºC* — — — *+85 ºC* -------- *-55 ºC*

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