

SPDT RF SWITCH

MODEL TWK2203

Package: 8 Pin TO-5 (T2)

Also Available In: Connectorized Housings

Features

- DC - 3.0 GHz
- Fast Switching Speed: 15 ns Typical
- RF1, RF2 Reflective in "OFF" State
- Absorptive
- Environmental Screening Available

Absolute Maximum (No Damage) Ratings

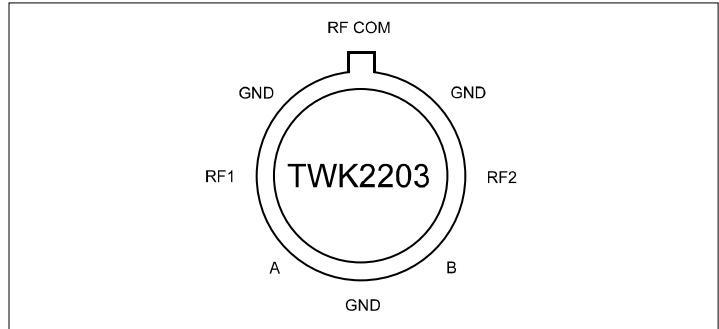
Ambient Operating Temperature	-55°C to +100 °C
Storage Temperature	-65°C to +125 °C
Case Temperature	+125 °C
DC Voltage	-8.5 Volts
Continuous RF Input Power	+30 dBm

Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	DC - 3.0 GHz	DC - 3.0 GHz
Insertion Loss (dB)	1.0	2.0 Max.
Isolation (dB)	≥40	30 Min.
VSWR	"ON" <1.5 "OFF" <1.75	2.0:1 Max. 2.0:1 Max.
Control Input High	Vdc mA	-5.0 to -8.0 0.30
Control Input Low	Vdc mA	0 to -0.2 0.010
Switching Speed (ns)	15	—

Note: Care should always be taken to effectively ground the case of each unit.

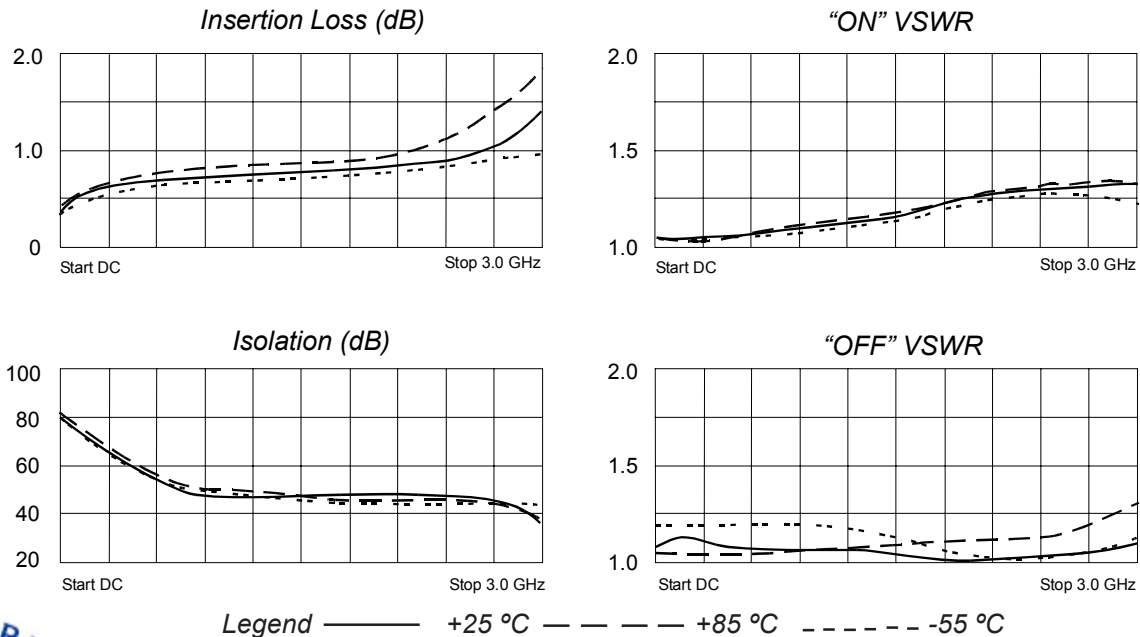
Pin Layout



Truth Table

Control Input		Switch Position	
		RF Common to:	
A	B	RF1	RF2
High	Low	ON	OFF
Low	High	OFF	ON

Typical Performance Data



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532 Rev. 5/25/10

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