

SPST RF Switch

Fast Switching Speed: 6 ns

Model TWP2219

DC to 3.0 GHz

Features

- DC - 3.0 GHz
- Fast Switching Speed: 6 ns Typical
- Low Power Consumption: <250 μ W Typical
- Operating Temp. - 55 °C to + 85 °C
- Environmental Screening available

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) | 0.6 | 0.9 Max. |
| Isolation (dB) | ≥ 27 | 25 Min. |
| VSWR | In Out | 1.5:1 Max. 1.5:1 Max. |
| Control Input High | Vdc mA | - 5.0 to - 8.0 0.150 |
| Control Input Low | Vdc mA | 0 to - 0.2 0.010 |
| Switching Speed (nsec) | 6 | 10 Max. |

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

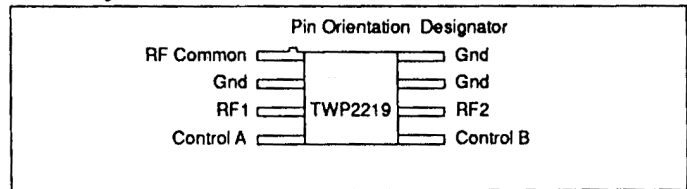
Maximum Ratings

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

Packaging Options (see Appendix)

8 Lead Flatpack (FP7)

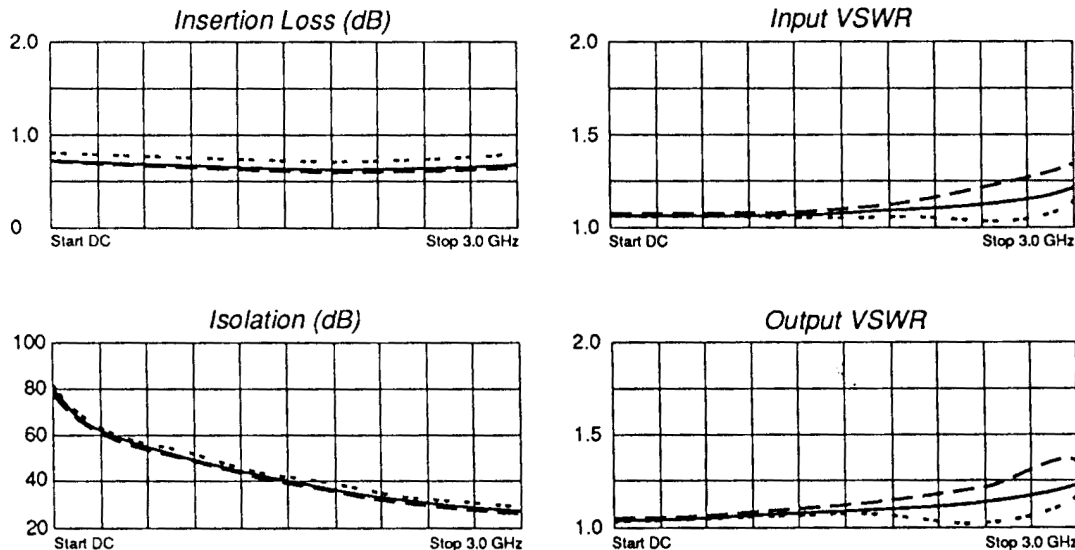
Pin Layout



Truth Table

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

Typical Performance Data



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

