

# RF SWITCH

## MODEL TWP2225

Available In: FP-12,6 Lead, 0.375" sq. Flatpack  
and 6 Lead, 0.375" sq. Surface Mount Package

### Features

- DC - 2.0 GHz
- Integral TTL Driver
- Fast Switching Speed: 25 ns Typical
- Operating Temp. -55 °C to + 85 °C
- Screening to the tables of MIL - STD-883 Available

### Maximum Ratings

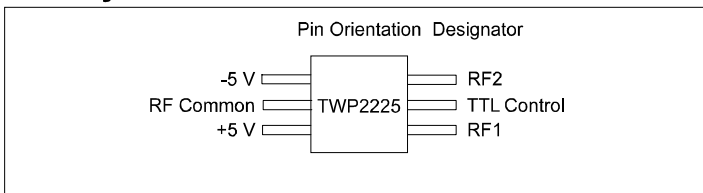
Ambient Operating Temperature ..... -55°C to +100 °C  
Storage Temperature ..... -65°C to +125 °C  
Case Temperature ..... +125 °C  
DC Voltage ..... +/-7.0 Volts  
Continuous RF Input Power ..... +30 dBm

### Specifications

| CHARACTERISTIC       | TYPICAL<br>Ta = 25 °C | MIN/MAX<br>Ta = -55 °C to +85 °C |
|----------------------|-----------------------|----------------------------------|
| Frequency            | DC - 2.0 GHz          | DC - 2.0 GHz                     |
| Insertion Loss (dB)  | 0.6                   | 0.8 Max.                         |
| Isolation (dB)       | >32                   | 29 Min.                          |
| VSWR "ON"            | <1.25:1               | 1.5:1Max.                        |
| DC Vdc               | +/-5V                 | +6V Max.                         |
| Bias mA              | 0.5                   | 1.2 Max.                         |
| Switching Speed (ns) | 25                    | 30 Max.                          |

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

### Pin Layout

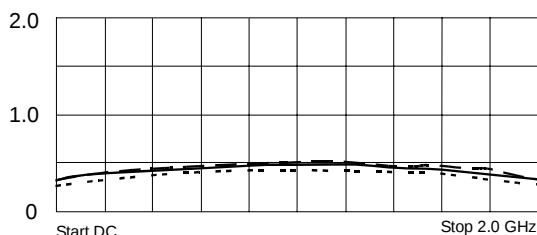


### Truth Table

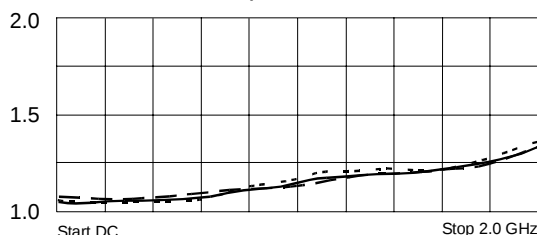
| Control Input | Switch Position         |
|---------------|-------------------------|
| TTL           | RF Common Connected To: |
| 1             | RF1                     |
| 0             | RF2                     |

### Typical Performance Data

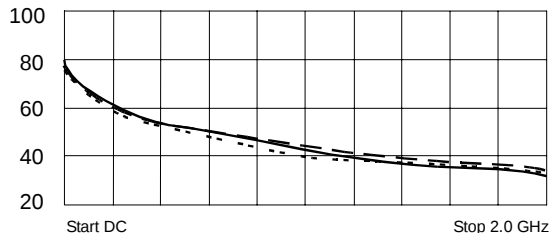
Insertion Loss (dB)



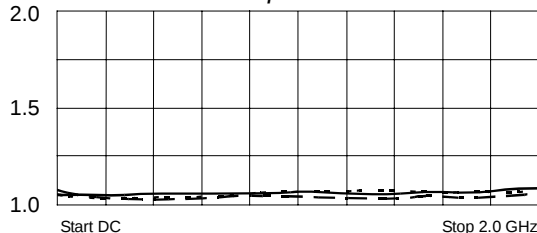
Input VSWR



Isolation (dB)



Output VSWR



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



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