



**Model: SR-3000-TS**

Description:..... DPDT, PIN-Transfer-Switch

Operating Frequency:..... 10 MHz – 3 GHz

Insertion Loss:

|              |            |
|--------------|------------|
| 0.01 – 2 GHz | 2 – 3 GHz  |
| 1.5 dB Max   | 2.0 dB Max |

Isolation:

|              |           |
|--------------|-----------|
| 0.01 – 2 GHz | 2 – 3 GHz |
| 60 dB Min    | 55 dB Min |

VSWR (“ON” paths):..... 1.5:1 Max  
 Rise/Fall time (10% to 90% RF, 90% to 10% RF):..... 350 ns Max  
 On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF):..... 900 ns Max  
 Operating Power:..... CW&AVG..... +30dBm Max  
 ..... Peak:..... 5W @ 5µS PW Max  
 Harmonic Distortion:..... 60dBc Max @ +30dBm  
 Control Input Characteristics:..... TTL /Unit-Load, 1-Control / Flouting-High  
 Control Logic:..... Logic “0” = RF Path J1 to J2 & J3 to J4  
 ..... Logic “1” = RF Path J1 to J4 & J3 to J2  
 Power Supplies:..... +5(±0.25)V @ 100mA Max  
 ..... -12(±0.5)V @ 100mA Max  
 Connectors (RF):..... SMA (f)  
 Connectors (Supplies/Controls)..... Solder Pins  
 Impedance:..... 50 Ohms Nominal  
 Quality:..... Best-Commercial-Grade

**Environmental Ratings:**

Temperature:..... {Operating: -55°C to +95°C} & {Storage: -60°C to +110°C}  
 Humidity:..... MIL-STD-202F, Method 103B, Cond. B (96 hours at 95% R.H.)  
 Shock:..... MIL-STD-202F, Method 213B, Cond. B (75G, 6mSec)  
 Vibration:..... MIL-STD-202F, Method 204D, Cond. B (.06” double amplitude, or 15G)  
 Altitude:..... MIL-STD-202F, Method 105C, Cond. B (50,000 Feet)  
 Temp. Shock:..... MIL-STD-202F, Method 107D, Cond. A (5 cycles)

**Available Options:**

(Units with listed options here may be subject to some specification tradeoffs from the standard, consult factory)

■ **Supply Voltages**

- A1 [ +5(±0.25)V / -5(±0.25)V ]
- A2 [ +5(±0.25)V / -15(±0.5)V ]
- A3 [ +12(±0.5)V / -12(±0.5)V ]
- A4 [ +15(±0.5)V / -15(±0.5)V ]

■ **Control Impedance**

- D1 [ 50Ω, Internally Terminated ]

■ **Control Function**

- F1 [ Inverse Logic, (“1” = Path “ON”) ]

■ **RF Connectors**

- B1 [ J1 & J3 Ports with SMA(M) ]
- B2 [ All SMA (M) ]
- B3 [ J2 & J4 Ports with SMA(M) ]



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**Outline**

