



Model: SR-U000-TS

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

Operating Frequency:..... 0.5 – 18 GHz

Insertion Loss:

0.5 – 10 GHz	10 – 18 GHz
2.2 dB Max	3.1 dB Max

Isolation:

0.5 – 10 GHz	10 – 18 GHz
80 dB Min	70 dB Min

VSWR (“ON” paths):..... 1.8:1 Max
 Rise/Fall time (10% to 90% RF, 90% to 10% RF):..... 25 ns Max
 On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF):..... 60 ns Max
 Operating Power:..... CW&AVG..... +30dBm Max
 Peak:..... 10W @ 1µS PW Max
 Harmonic Distortion:..... 75dBc 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), Removable
 Connectors (Supplies/Controls)..... Solder Pins
 Impedance:..... 50 Ohms Nominal
 Weight:..... 1.0 oz [28.3 g]
 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]

■ **RF Connectors**

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

■ **Control Impedance**

- D1 [50Ω, Internally Terminated]

■ **Control Function**

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

■ **Video Suppression Filter**

- G1 [VF @ J1 & J3 Ports <> 0.25 dB additional Loss]
- G2 [VF @ J2 & J4 Ports <> 0.25 dB additional Loss]
- G3 [VF @ All Ports <> 0.5 dB additional Loss]



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Outline

