Universal Microwave Components Corp.
5702-D General Washington Drive Alexandria, VA 22312 <> Web: www.umcc111.com
E-mail: sales@umcc111.com <> Tel: (703) 642-6332 <> Fax: (703) 642-2568

Model: SR-S000-TS

Description: ..... DPDT, PIN-Transfer-Switch
Operating Frequency:..... 2 – 18 GHz
Insertion Loss:

2 – 15 GHz	15 – 18 GHz
2.3 dB Max	2.8 dB Max

Isolation:

2 – 15 GHz	15 – 18 GHz
70 dB Min	65 dB Min

VSWR ("ON" paths):..... 1.8:1 Max
Rise/Fall time (10% to 90% RF, 90% to 10% RF): ... 30 ns Max
On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF): ..... 70 ns Max
Operating Power: ..... CW&AVG..... +30 dBm Max
..... Peak:..... 10W @ 1µS PW Max
..... PRF:..... 1MHz Max
Control Input Characteristics: ..... TTL /Unit-Load, 1-Control / Floating-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 @ 130mA Max
Connectors (RF):..... SMA (f), Removable
Connectors (Supplies/Controls) ..... Solder Pins
Impedance: ..... 50 Ω 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]

■ ***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]

* Recommended for Low Power Consumption <> Additional Switching Delay (ON/OFF time)

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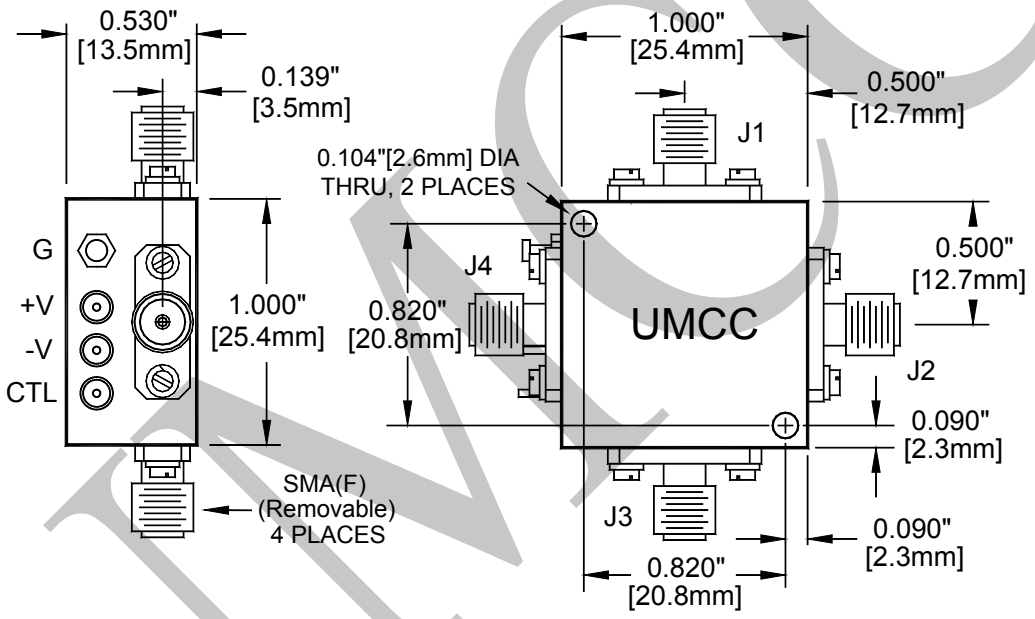
Outline



Weight	Tolerances
1.0 oz [28.4g]	±0.015" [±0.38mm]

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