



**Model: SR-5650-TS**

Description:.....	Solid-State, High Power, Transfer-Switch
Operating Frequency:.....	0.65 – 5.65 GHz
Insertion Loss: .....	1.0 dB Max
Isolation: .....	38dB Min
VSWR (“ON” paths):.....	1.45:1 Max
Rise/Fall time (10% to 90% RF, 90% to 10% RF): ...	250 ns Max
On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF):.....	350 ns Max
Switching Frequency: .....	250KHz Max
<i>{ note: Permanent damage may result if Switching Frequency exceeds 250KHz Max limit }</i>	
Operating Power:..... CW&AVG.....	+37dBm (5W) Max / Hot Switching
..... Peak: .....	+47 dBm (50W) @ 1µS PW Max
<i>{ note: Power ratings are based upon proper thermal management (Unit would require proper Heat Sinking) }</i>	
Control Input Characteristics: .....	TTL /Unit-Load, 1-Control / Floating-High
Control Logic:.....	Logic “1” = RF Path J1 to J2 & J3 to J4
.....	Logic “0” = RF Path J1 to J4 & J3 to J2
Power Supplies:.....	+5(±0.25)V @ 40mA Max (Static); 120mA Max (Dynamic)
.....	-12(±0.5)V @ 180mA Max (Static); 250mA Max (Dynamic)
Connectors (RF):.....	SMA (f), Removable
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)

■ **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 ]

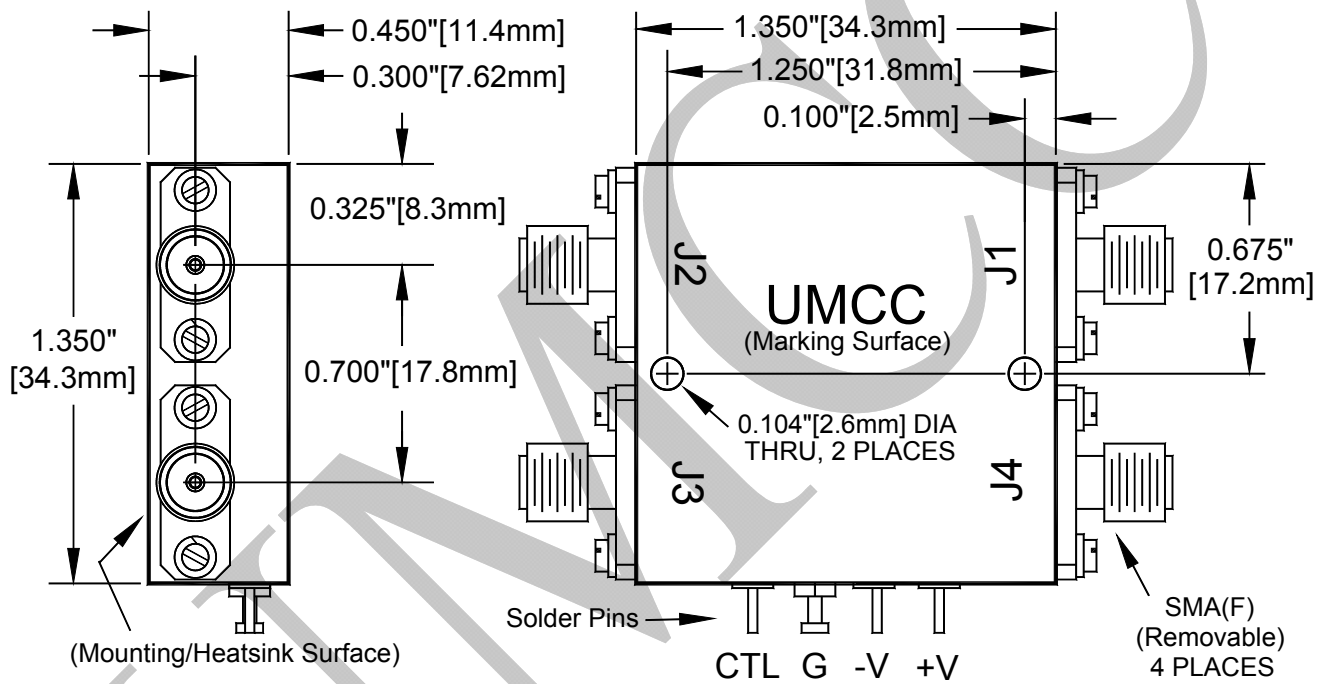
■ **Control Function**

- F1 [ Inverse Logic ]



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**Outline**



Weight	Tolerances
1.3 oz [36.9g]	±0.015" [±0.38mm]