



Model: SR-B310-1S

Description:.....	SP1T, Absorptive Pin-Switch	
Operating Frequency:.....	20 MHz – 6 GHz	
Insertion Loss:	2.5 dB Max	
Isolation:	75 dB	
VSWR (RF Path “ON” or “OFF”):	20-40 MHz..... 1.75:1 Max	
.....	40-6000 MHz..... 1.6:1 Max	
Rise/Fall time (10% to 90% RF, 90% to 10% RF): ...	200 ns Max	
On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF):.....	375 ns Max	
Operating Power:.....	CW / AVG..... +27 dBm Max *	
.....	*..... {+23dbm Max below 100MHz}	
.....	Peak:	5W @ 1µS PW & 10% Duty-Cycle Max
Control Input Characteristics:	TTL /Unit-Load, Floating-High	
Control Logic:.....	1-Control, Logic “0” = RF Path “ON”	
Power Supplies:.....	+5(±0.25) V @ 50mA Max	
.....	-5(±0.25) V @ 40mA Max	
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)

■ **Supply Voltages**

- A0 [+5(±0.25)V / -12(±0.5)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 SMA(M) / J2 SMA(F)]
- B2 [J1 SMA(F) / J2 SMA(M)]
- B3 [All SMA(M)]

■ **Control Connectors**

- C1 [SMC(Jack), 50 Ω]
- C2 [SMB(Jack), 50 Ω]

■ **Control Impedance**

- D1 [50 Ω, Internally Terminated]

■ **Control Function**

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

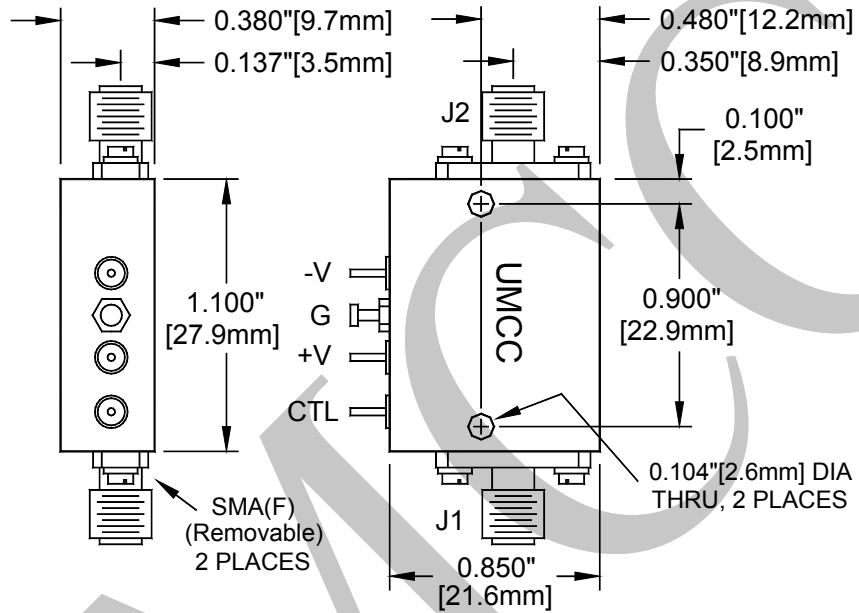
■ **Single Side Terminated (Model: SR-B3S0-1S)**

- [J1 Port Absorptive <> J2 Port Reflective]



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Outline



Weight	Tolerances
0.7 oz [19.8g]	±0.015" [±0.38mm]