

RSN SERIES SWITCHES SINGLE POLE, DOUBLE THROW



RSN

Renaissance Electronics RSN family of broadband, DC-8 GHz single pole, double throw switches are designed to switch RF and Microwave signals from a common input to either of two, break before make output ports. These switches offer extremely low insertion loss, minimal VSWR, and very high isolation. The RSN family of switches are currently available in six operating modes. Designed for high reliability and consistent performance, RSN Series switches are available in standard and custom configurations.

Renaissance also offers a Hi-Rel option designed to exceed 10 million cycles without any degradation in contact resistance or other RF performance.

FEATURES:

- Low insertion loss and high isolation: better signal integrity and less crosstalk.
- Long term reliability: reduce your system maintenance cost.
- High power handling capability.
- Excellent repeatability: improve your yield and lower your cost.

OPERATING MODES:

- Failsafe
- Failsafe with TTL logic
- Pulse Latching
- Latching
- Latching with TTL logic
- Indicators
- Manual
- Option to 12 GHz

SPECIFICATIONS

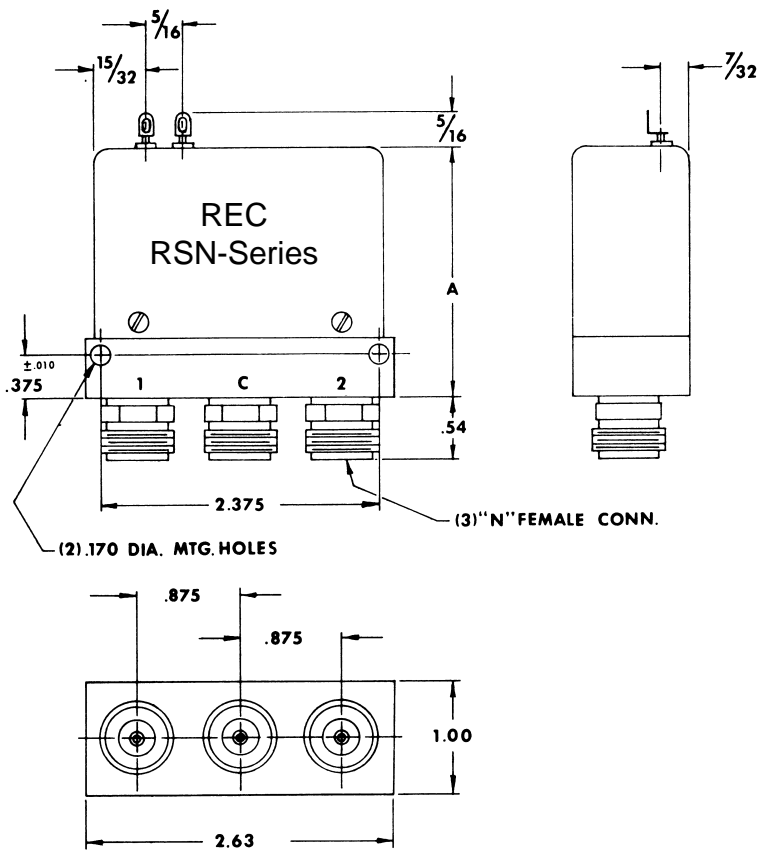
Common Specifications

Switch Type:	Single Pole, Double Throw Position
Frequency Range:	DC – 8 GHz
Impedance:	50 ohms
Connectors:	N - Female (BNC, TNC, optional)
Bias Connection:	Solder Terminals
Switching Time:	20 milliseconds maximum
Life:	2,000,000 Cycles minimum
Hi Rel Option	10,000,000 Cycles minimum

Operating Environment

Operating Temperature:	0 to +70°C, -40 to +85°C ≤ 30% humidity
Storage Temperature:	-65 to +125°C

HOW TO ORDER - COAXIAL SWITCHES



Dimension: A = 2.15"

MODEL: _____

CONNECTOR: _____

N = TYPE N (F)

OPTIONAL CONNECTORS

RST = TNC (F)

TSB = BNC (F)

THROWS: _____

1

2

CURRENT: _____

A = ALTERNATING (failsafe only)

D = DIRECT

OPTIONS: _____

L = LATCHING

TTL = TTL

I = INDICATOR

PL = PULSE LATCHING

VOLTAGE: _____

12

15

21

28

ELECTRICAL CHARACTERISTICS:

Frequency Range GHz	Insertion Loss dB max	Port-to-Port Isolation dB min	VSWR	Maximum Switching Time mS	CW RF Power Handling Watts max	DC Supply Volts @ 250 mA max
DC-4	0.3	70	< 1.25	20	200	+28*
4-8	0.4 @	60	< 1.35	20	100	

*Other voltages available