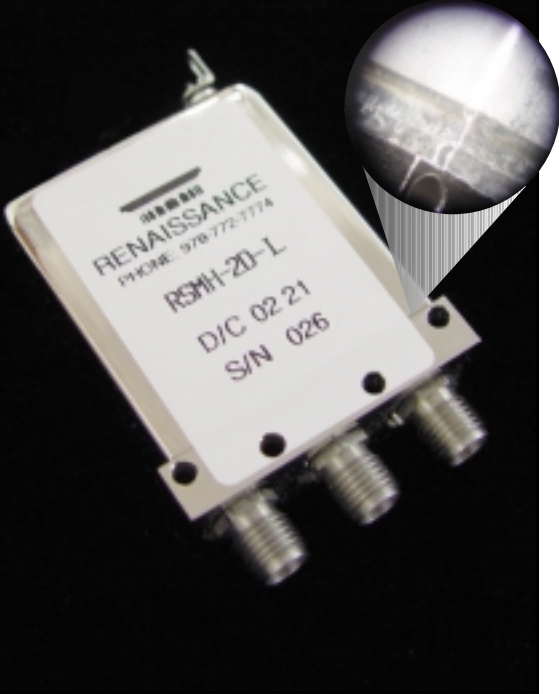


## RSMH HERMETIC SERIES SWITCHES LASER WELDED, NO EPOXY



RSM

Renaissance Electronics RSMH series of switches offer the same dependability of our standard design in a truly Hermetic Laser Welded package. All seals are glass to metal or metal to metal, NO EPOXY used on these switches. These SPDT switches are sealed in a dry environment and will operate at -55° to +85°C in the most severe conditions. The RSMH series of switches are available in break before make, latching or failsafe configurations. They also offer low insertion loss minimal VSWR and high isolation.

### FEATURES:

- No epoxy sealing: no failure over time because of epoxy deterioration.
- All seals are metal to metal and glass to metal: ensures minimum leak and thus integrity of the unit.
- Laser Welded in dry atmosphere (< 50 ppm moisture): prevents condensation over temperature.
- Maximum leak rate of  $10^{-7}$  atm cc/sec: complies with MIL-STD-202F, 112E
- Standard mounting holes: fits conventional in-board and out-board footprints.

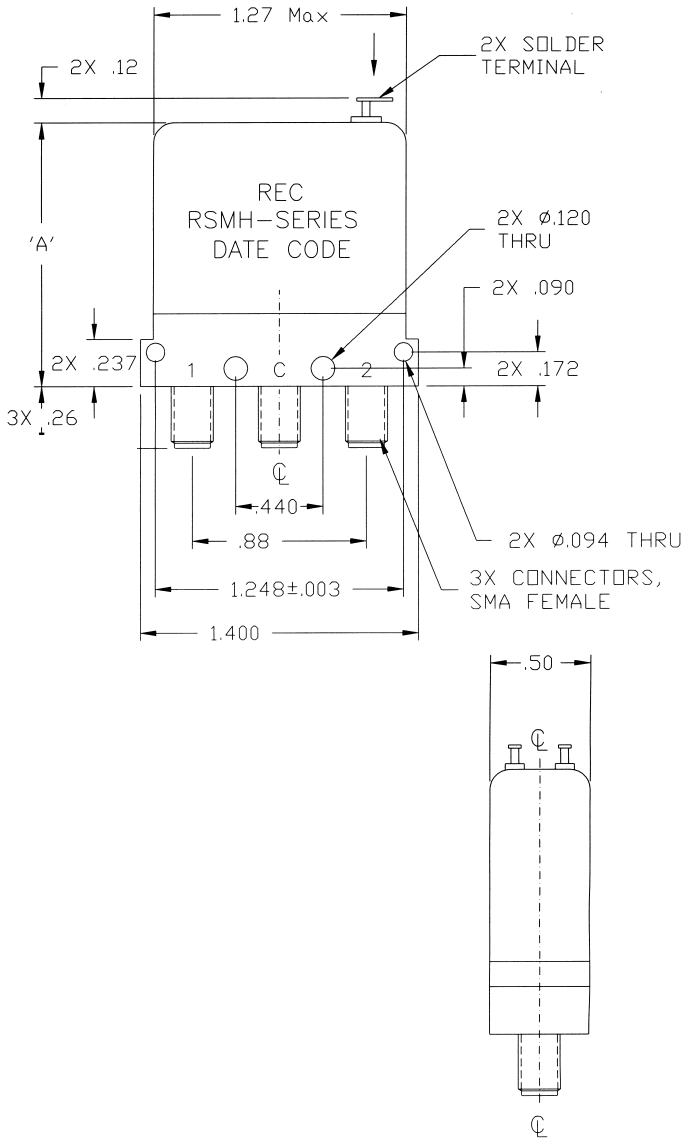
### OPERATING MODES:

- Failsafe
- Latching
- Pulsed Latching
- Failsafe TTL / Latching TTL
- Higher Frequencies Available

### SPECIFICATIONS:

#### Common Specifications

Switch Type:	1 Pole, 2 Position
Frequency Range:	DC - 6 GHz
Impedance:	50 ohms
Connectors:	SMA Hermetic
Bias Connection:	Solder Terminals (Hermetic)
Switching Time:	20 milliseconds maximum
Life:	2,000,000 Cycles minimum
<b>Operating Environment</b>	
Operating Temperature:	-55° to +85°C
Storage:	-65° to +125°



HOW TO ORDER - COAXIAL SWITCHES

RSMH - X X - X - X

MODEL: \_\_\_\_\_

THROWS: \_\_\_\_\_  
 1  
 2

CURRENT: \_\_\_\_\_  
 D = DIRECT

OPTIONS: \_\_\_\_\_  
 L = LATCHING  
 TTL = TTL

VOLTAGE: \_\_\_\_\_  
 12  
 15  
 21  
 28

Dimension: A = 1.42 max. for Failsafe; 1.91 max for Latching

**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 @ 175 mA max
DC-3	≤ 0.2	> 75	< 1.2	20	200	+28*
3-6	≤ 0.3	> 70	< 1.3		70	

*\*Other frequencies available* *\*Other voltages available*

