

# Series 90 SP2T Switches Specifications

## PERFORMANCE CHARACTERISTICS

MODEL NO.	CHARACTERISTIC	FREQUENCY (GHz)	
		18-26.5	26.5-40
F9021	Min. Isolation (dB)	30	20
	Max. Insertion Loss (dB)	3.0	3.6
	Max. VSWR (ON)	2.1	2.3
F9022	Min. Isolation (dB)	45	40
	Max. Insertion Loss (dB)	3.2	4.0
	Max. VSWR (ON)	2.2	2.3
F9023	Min. Isolation (dB)	65	55
	Max. Insertion Loss (dB)	3.5	4.5
	Max. VSWR (ON)	2.3	2.5

### Switching Characteristics

Rise and Fall Times ..... 10 nsec max.  
 Switching Time ..... 25 nsec max.  
 Repetition Rate ..... 20 MHz max.

### Power Handling Capability

Without Performance  
 Degradation ..... 1W cw or peak  
 Survival Power ..... 1W average, 75W peak  
 (1  $\mu$ sec max. pulse width)

### Power Supply

Requirements ..... +5V  $\pm$ 2%, 75 mA  
 -12 to -15V, 50 mA

## CONTROL CHARACTERISTICS

### Control Input

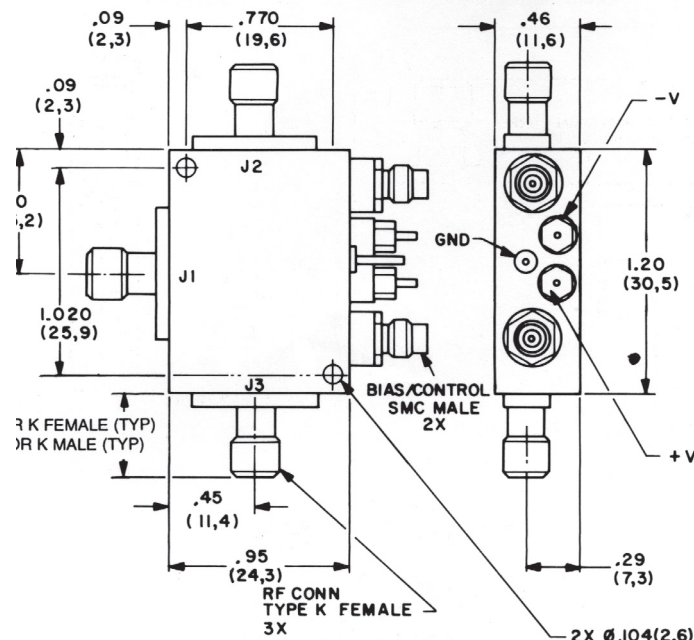
Impedance ..... TTL, advanced Schottky,  
 one unit load. (A unit load  
 is 0.6 mA sink current and  
 20  $\mu$ A source current.)

### Control Logic

..... Logic "0" (-0.3 to +0.8V)  
 for port ON and Logic "1"  
 (+2.0 to +5.0V) for port  
 OFF.

## ENVIRONMENTAL RATINGS AND AVAILABLE OPTIONS

See page 285.



**SERIES F90**  
 Wt. 1 oz. (28 gr.) approx.

Dimensional Tolerances, unless otherwise indicated: .XX  $\pm$ .02; .XXX  $\pm$ .005

