

## FSS2

### SPDT, DC~18GHz

Features:  
 \* Low VSWR  
 \* Low Insertion Loss  
 \* High Isolation

Applications:  
 \* Wireless  
 \* Transmitter  
 \* Laboratory Test  
 \* Radar

#### Electrical

Frequency: DC~18GHz  
 Voltage: 12±2V DC  
 18±2V DC  
 24±2V DC (DC~5GHz)  
 Current: 130mA@12V DC  
 195mA@18V DC  
 85mA@25°C  
 Impedance: 50Ω

Frequency range (GHz)	Insertion Loss (dB Max.)	Isolation (dB Min. )	VSWR (Max.)
DC-2	0.2	70	1.3
2-5	0.3	60	1.4
5-12	0.4	50	1.5
12-18	0.7	40	1.7

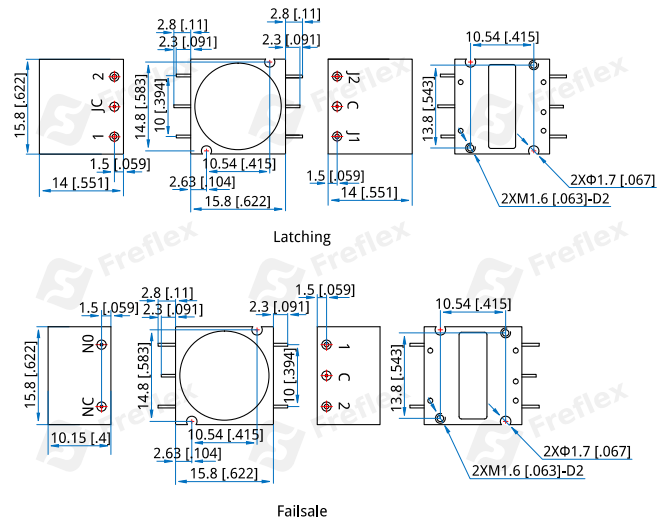
#### Mechanical

Connector Type: PIN (Φ0.45mm)  
 Switching Time: 10mS  
 Operation Life: 1M Cycles  
 Vibration (operating): 20-2000Hz, 10G RMS  
 Mechanical Shock: 50G, 1/2Sine, 11mS  
 Weight: 17g(Failsale)  
 25g(Latching)

#### Environmental

Operating Temperature: -40~+85°C  
 Extended Temperature: -55~+105°C

#### Outline Drawings



Unit: mm [in]  
 Tolerance: ±0.2mm [±0.008in]

#### Additional Options

Extended Temperature: Z

#### How To Order

##### FSS2-F-XYZ

F: Frequency in MHz  
 X: Actuator Type. Failsafe: 0, Latching: 1.  
 Y: Voltage. +12V: E, +18V: H, +24V: K.  
 Z: Additional Options.

#### Examples:

To order a Surface mount switch, SPDT, DC-2GHz, Failsafe, +12V, specify FSS2-2000-0E.

Customization is available upon request.

# Surface Mount Switch

## Pin Numbering

### Failsafe

Pin	Function	Pin	Function
1	VDC	C	RF (COM)
2	GND	NO	RF 2
NC	RF 1		

### Latching

Pin	Function	Pin	Function
1	VDC	J1	RF 1
2	VDC	JC	RF (COM)
C	GND	J2	RF 2

## Control Logic

### Failsafe

Position	1	2	Indicator status
POS 1	NC	GND	NC-C ON NO-C OPEN
POS 2	VDC	GND	NC-C OPEN NO-C ON

### Latching

Position	1	2	C	Indicator status
POS 1	VDC	NC	GND	J1-JC ON J2-JC OPEN
POS 2	NC	VDC	GND	J1-JC OPEN J2-JC ON

## Driving Schematic Diagram

