Distinctive Characteristics

For high frequency (DC through 1GHz): Isolation 40dB minimum at 1GHz. Insertion loss 0.5dB maximum at 1GHz.

Impedance 75 ohms

Innovative alternative to relay products

Highly reliable, self-cleaning twin contact mechanism with gold plating

Long total travel of .138" (3.5mm) for highly visible actuator position

Distinct audible and tactile feedback during actuation

Suited to high frequency applications (90MHz to 1GHz) such as CATV and communication equipment

Actual Size with Tall Actuator



General Specifications

Electrical Capacity (Resistive Load)

Logic Level:

0.4VA maximum @ 28V AC/DC maximum (Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V) Note: Find additional explanation of operating range in Supplement section.

RF Ratings

Impedance:	75 ohms			
Insertion Loss:	0.5dB maximum @ 1GHz			
Isolation:	40dB minimum @ 1GHz			

Other Ratings

Contact Resistance:200 milliohms maximumInsulation Resistance:250 megohms minimum @ 500V DCDielectric Strength:500V AC minimum for 1 minute minimumMechanical Life:1,000 operations minimumElectrical Life:1,000 operations minimumContact Timing:Nonshorting (break-before-make)Total Travel:.138" (3.5mm)

Environmental Data

Operating Temp Range:-30°C through +85°C (-22°F through +185°F)Humidity:90 ~ 95% humidity for 240 hours @ 40°C (104°F)Vibration:10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range
& returning in 5 minutes; 3 right angled directions for 2 hoursShock:50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

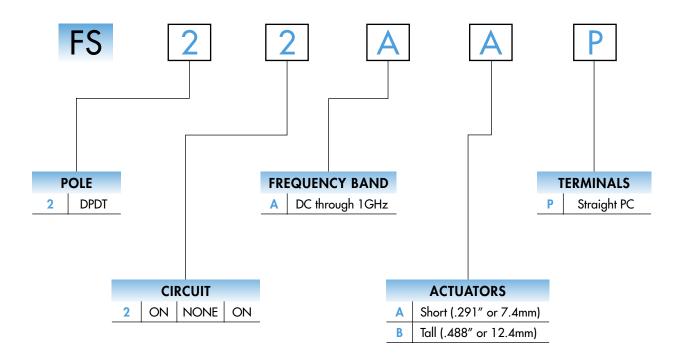
Installation

Soldering Time & Temp:	Wave Soldering: See Profile A in Supplement section.				
	Manual Soldering: See Profile A in Supplement section.				
Cleaning:	These devices are not process sealed. Hand clean locally using alcohol based solution.				



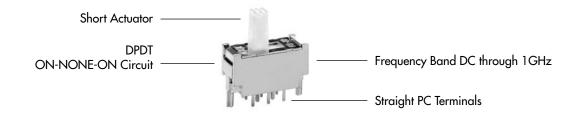
Miniature Slides for High Frequency Series FS

TYPICAL SWITCH ORDERING EXAMPLE



DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

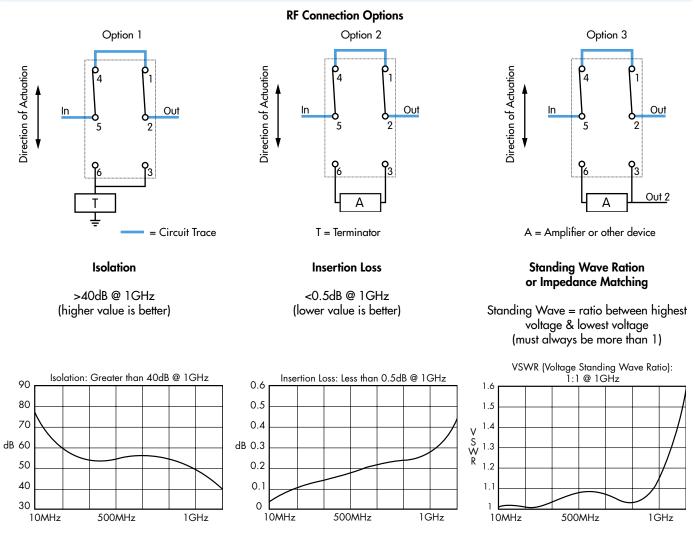
FS22AAP



POLE & CIRCUIT										
	Slide Position			Connected Terminals		inals	Throw & Schematics			
Pole	Model	Left	Center	Right	Left	Center	Right	Note: Terminal numbers are not actually on the switch.		
DP	F\$22	ON	NONE	ON	2-1 5-4	NA	2-3 5-6	DPDT 2 (COM) 5 • • 3 4 • • 6		

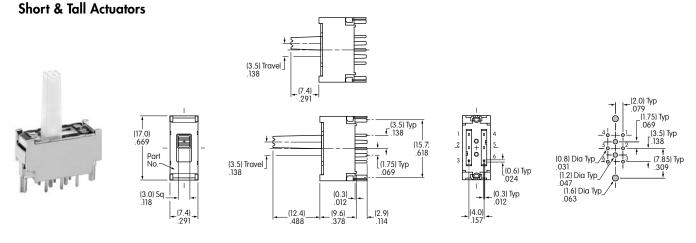


HIGH FREQUENCY PERFORMANCE



Note: The data above reflects the conditions using the FS switch on a test PCB with two coaxial connectors. High frequency applications require external connection on the PCB. Contact factory for details.

TYPICAL SWITCH DIMENSIONS



FS22ABP

Actuator in LEFT position.