



SPST PIN DIODE SWITCHES

0.5 - 18 GHz

FEATURES

- Field Removable Connectors for Drop-In Assembly
- High Isolation Models Available
- Wideband Performance
- Option for Integral Driver



APPLICATIONS

- Communications Systems
- EW Systems
- Test Equipment
- Electronic Simulators
- Modulators

ENVIRONMENTAL RATINGS

Max Input Power.....1 W Average
 Operating Temperature Range.....-55°C to +125°C
 Storage Temperature Range.....-65°C to +125°C

Specifications: (@ +25°C, 0 dBm)

MODEL	MAXIMUM INSERTION LOSS (GHz)			MINIMUM ISOLATION (dB)	MAXIMUM VSWR	INTEGRAL WITH DRIVER
	0.5 – 2.0 GHz	2.0 – 8.0 GHz	8.0 – 18 GHz			
S1S0518A4	1.2	1.8	2.5	40	2:1	NO
S1D0518A4	1.2	1.8	2.5	40	2:1	YES
S1S0518A6	1.4	2.0	3.0	60	2:1	NO
S1D0518A6	1.4	2.0	3.0	60	2:1	YES
S1S2018A4	--	1.6	2.2	40	2:1	NO
S1D2018A4	--	1.6	2.2	40	2:1	YES
S1S2018A5	--	1.8	2.5	55	2:1	NO
S1D2018A5	--	1.8	2.5	55	2:1	YES

NOTES:

1. Typical switching speed: 50 nsec.
2. Isolation ports are reflective
3. Power supply and model control:

- Unit without driver
 - X....No connection
 - Y....Bias input:
 - 10V for insertion loss
 - +60 mA for isolation
 - Z....No connection
- Unit with integral driver
 - X....+5 ± 0.2 V DC, 100 mA nominal
 - Y....TTL control input:
 - "Low" for insertion loss
 - "High" for isolation
 - Z....-15 ± -0.5V DC, 100 mA nominal

