NON-REFLECTIVE, INTERNALLY TERMINATED

SPDT DIODE SWITCHES

0.25–18 GHz

MODEL SW-0218
SW-1218

GENERAL INFORMATION

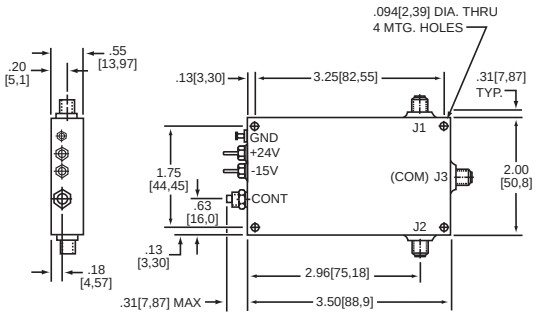
Series SW broadband pin diode switches are medium power devices that operate over wideband frequency ranges. Carefully selected diode placed in either series, series-shunt, or shunt configurations produce excellent electrical performance up to 18 GHz.

GENERAL SPECIFICATIONS

Model:	SW-0218
Frequency Range:	0.25–18 GHz
Insertion Loss:	3.5 dB maximum
Isolation:	0.5 Watt Input–80 dB minimum
VSWR (ON/OFF):	RF Ports, All Conditions 2.0:1 maximum
Switching Speed:	50 nsec rise; 200 nsec fall; (includes delay)
Switching Rate:	50 KHz maximum
RF Power:	1 WCW maximum
RF Impedance:	(Input and Output) 50 Ohms
Switching Drive Input:	TTL Logic
Operating Temperature:	–10°C to 60°C
D.C. Power Requirements:	+24V @ 120 ma; –15 @ 50 ma
RF Connectors (J1, J2, J3):	SMA Female per MIL-C-39012
TTL Input Connector:	SMC Female per MIL-C-39012

GENERAL SPECIFICATIONS

Model:	SW-1218
Frequency Range:	0.2 to 18.0 GHz
Minimum Isolation:	0.2–1 GHz–60 dB; 1–8 GHz–47 dB 8–12 GHz–43 dB; 12.4–18 GHz–40 dB
Maximum Insertion Loss:	0.2–1.0 GHz–1.5 dB; 1–4 GHz–1.2 dB 4–12.4 GHz–2.0 dB; 12.4–18 GHz–2.5 dB
Max. VSWR (ON/OFF):	1–4 GHz–1.5; 4–18 GHz–2.5.
Speed:	250 nsec rise; 100 nsec delay; 100 nsec fall; 50 nsec delay
Max. RF Power:	+20 dBm
Operating Temperature:	–55°C to +71°C.
Input Power:	+5VDC @ 70 ma; –15VDC @ 20 ma
Logic:	TTL
Connectors:	SMA



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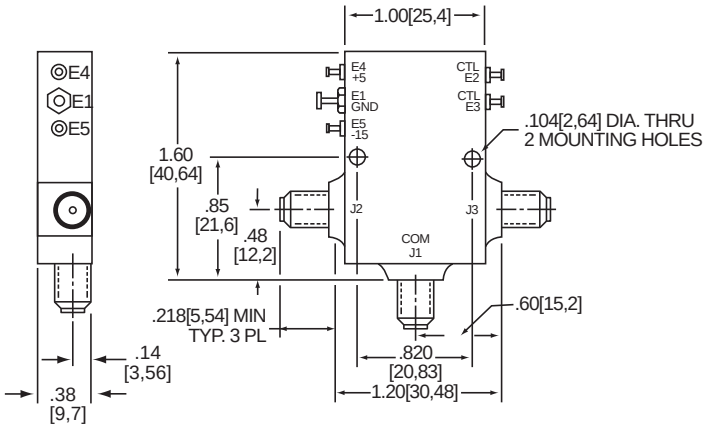

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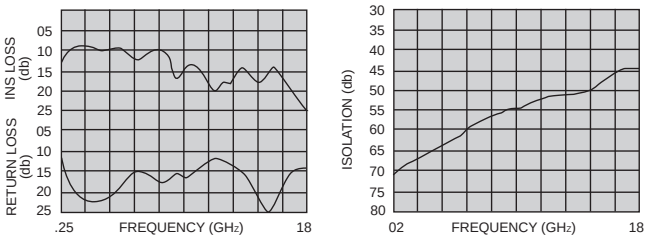

MODEL SW-1218

KEY: Inches[Millimeters] .XX ±.03 .XXX ±.010 [.X ±0.8 .XX ±0.25]

MCE
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