Power Monitors and Sensors	RF Switching Products		Passive Component		ntegrated M Assemblie		Introductior
				Solid S	tate Pl	N Cont	trol Products
	Com Parda 97809 3Vi305 3Vi305 2Vi30 2Vi30 2Vi30 2Vi305 2Vi305 2Vi305 2Vi305 2Vi305 2Vi305 2Vi305 2Vi		• 9	SPST thro ntegral T	es PIN ough SP4 TL Drive cally Seale	T and Tra rs	
ideal for many appl	PIN switches provide lications where minia hey are derived from	ture size an	d state-of-t	he-art perf	ormance a	re not requ	
well proven since the sinc		and similar				•	POWER SUPPLY

MODEL	ТҮРЕ	SWITCHING TIME MODULATION (ns)	BAND SEGMENTS (GHz)	INSERTION LOSS (dB max.)	VSWR (max.)	ISOLATION (dB min.)	POWER HANDLING (mW)	POWER SUPPLY REQUIREMENTS	
								mA @+5 V	mA @-12 V
SV213DS	SPST	50	2-12 12-18	2.0 2.5	2.0 2.0	50 50	500	50	60
SV123DS	SP2T	50	2-12 12-18	2.5 3.0	2.0 2.0	50 50	200	90	60
SV133DS	SP3T	50	2-12 12-18	2.7 3.1	2.0 2.0	50 50	200	105	75
SV143DS	SP4T	50	2-12 12-18	2.7 3.1	2.0 2.0	50 50	200	105	75
XSV323DS	XFER	50	2-12 12-18	3.0 3.4	2.0 2.0	50 50	200	80	80



Solid State PIN Control Products

Specifications

Absorptive Switches, SMA (F), 2 to 18 GHz

MODEL	ТҮРЕ	SWITCHING TIME MODULATION (ns)	BAND SEGMENTS (GHz)	INSERTION LOSS (dB max.)	VSWR (max.)	ISOLATION (dB min.)	POWER HANDLING (mW)	POWER SUPPLY REQUIREMENTS	
								mA @+5 V	mA @-12 V
SV213DTS	SPST	50	2-12 12-18	2.3 2.8	2.0 2.0	60 45	200	40	60
SV123DTS	SP2T	50	2-12 12-18	2.7 3.0	2.0 2.0	60 50	200	60	60
SV133DTS	SP3T	50	2-12 12-18	2.8 3.3	2.0 2.0	60 45	200	105	75
SV143DTS	SP4T	50	2-12 12-18	2.8 3.3	2.0 2.0	60 45	200	105	75

Electrical Specifications

TTL CONTROL LOGIC

Logic 0 (0-0.8 V, 1.6 mA max. sink @ 0.4 V) = Insertion Loss Logic 1 (2.0-5.5 V, 40 μA max. source @ 2.4 V) = Isolation

FOR TRANSFER SWITCH (XSV323DS)

Logic 0: J1-J2 and J3-J4 at Insertion Loss Logic 1: J1-J4 and J2-J3 at Insertion Loss

SWITCHING TIME

T on = 50% TTL to 90% of RF voltage T off = 50% TTL to 10% of RF voltage

SWITCHING RATE

1 MHz max. PRF @50% duty cycle

DRIVER

Reverse voltage protected

SURVIVAL POWER at 25°C (Cold Switching)

1.0 W CW, 20 W Peak (1 μs max. pulse width, 5% duty cycle) Derate linearly to 50% at +95°C

Options

- Very Low Loss Video Leakage
- Inverted TTL Logic Control
- BCD Decoder Driver
- Package Configuration
- Over Voltage Protection

Environmental Specifications

TEMPERATURE

Operating -54° C to $+95^{\circ}$ C Storage -65° C to $+125^{\circ}$ C

HUMIDITY

Per MIL-STD-202F, method 103B, condition B (96 hours at 95% R.H.)

SHOCK

Per MIL-STD-202F, method 213B, condition B (75 G, 6 ms)

ALTITUDE

Per MIL-STD-202F, method 105C, condition B (50,000 feet)

VIBRATION

Per MIL-STD-202F, method 204D, condition B (.06" double amplitude or 15 G, whichever is less)

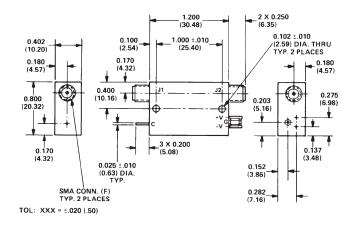
THERMAL SHOCK

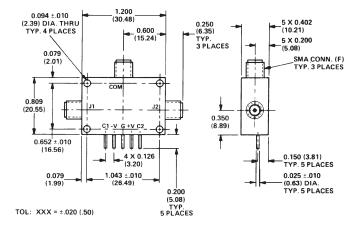
Per MIL-STD-202F, method 107D, condition A (5 cycles)



Power Monitors	RF Switching	Passive	Integrated Microwave	Introduction
and Sensors	Products	Components	Assemblies (IMAs)	
		Soli	d State PIN Contro	l Products

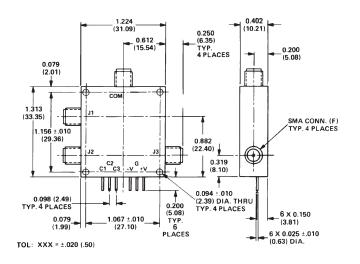
Outline Drawings





SV213DS, SV213DTS

SV123DS, SV123DTS



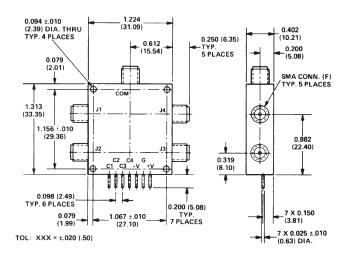
SV133DS, SV133DTS

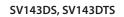
Dimensions in inches (mm in parentheses), unless otherwise specified.

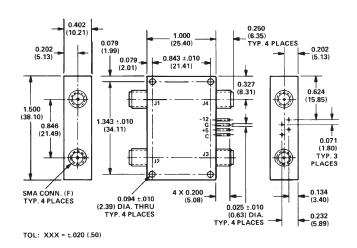


Solid State PIN Control Products

Outline Drawings







XSV323DS

Dimensions in inches (mm in parentheses), unless otherwise specified.

