

SRS3019

5 TO 3000 MHz SINGLE-POLE DOUBLE-THROW SWITCH

Typical Values	SRS3019
Low Insertion Loss	<1.5 dB
High Isolation	>30 dB
High Output Power	+28.0 dBm
High Third Order I.P.	+40 dBm
SMT0-8B Package	

SPECIFICATIONS*

Parameter	Typical	Guaranteed*	
		0 to 50 °C	-55 to +85 °C
Frequency (Min.)	5-3000 MHz	5-3000 MHz	5-3000 MHz
Insertion Loss (Max.)			
5-500 MHz	<1.0 dB	1.3 dB	1.5 dB
500-2000 MHz	<1.2 dB	1.5 dB	1.6 dB
2000-3000 MHz	<1.5 dB	1.9 dB	2.1 dB
Isolation (Min.)			
5-500 MHz	40 dB	38.0 dB	36.0 dB
500-2000 MHz	35 dB	30.0 dB	28.0 dB
2000-3000 MHz	30 dB	28.0 dB	26.0 dB
SWR (Max.)[^]			
Input/Output			
5-500 MHz	<1.15:1	1.3:1	1.4:1
500-2000 MHz	<1.3:1	1.5:1	1.6:1
2000-3000 MHz	<1.7:1	1.9:1	2.0:1
Power Output (Min.)			
@ 1dB comp. 5-3000 MHz	+28.0 dBm	+25.0 dBm	+24.0 dBm
Switching Time[†]			
5-3000 MHz	700 ηsec	1000 ηsec	1200 ηsec
DC Current (Max.)	22 mA	25 mA	30 mA

* Measured in a 50-ohm system at ±15 Vdc unless otherwise specified.

[^] Insertion loss state. [†] 50% TTL control to 10% or 90% RF.

INTERMODULATION PERFORMANCE

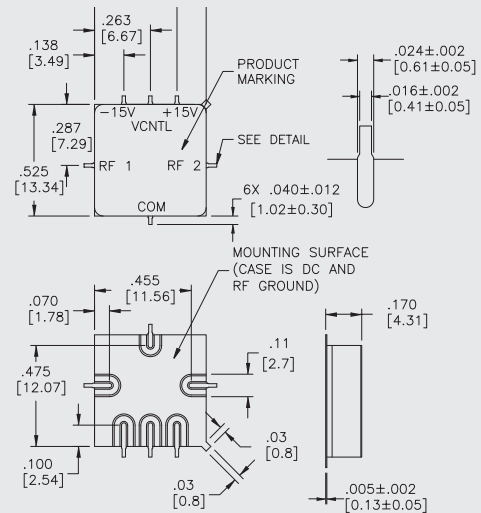
Typical @ 25 °C, +5 Volts, and 400 MHz	SRS3019
Second Order Two Tone Intercept Point	+65 dBm
Third Order Two Tone Intercept Point	+40 dBm

ABSOLUTE MAXIMUM RATINGS

Storage Temperature	-62 to +125 °C
Maximum Case Temperature	+150 °C
Maximum DC Voltage	+25 Volts
Maximum Continuous RF Input Power	+30 dBm
Maximum Short Term Input Power (1 Minute Max.)	+33 dBm
Maximum Peak Power (3 μsec Max.)	+35 dBm
Burn-in Temperature	+125 °C

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SMT0-8B Package for Switches



LOGIC TABLE

TTL CONTROL	COM-RF1	COM-RF2
LOW	ISOLATION	INSERTION LOSS
HI	INSERTION LOSS	ISOLATION

LOW is defined as 0 to +0.8 V
HI is defined as +2.4 V to +5.5 V

DIMENSIONS ARE IN INCHES [MILLIMETERS]