

SJ1301

5 TO 1300 MHz 10-PIN GULLWING SPDT SWITCH

Typical Values

Low Insertion Loss	<2.3 dB
High Isolation	+42 dB
High Output Power	+24.0 dBm
High Third Order I.P.	+40 dBm
Low Voltage	5 Vdc
TTL Compatible	

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SPECIFICATIONS*

Parameter	Typical	Guaranteed*	
		0 to 55° C	-55 to +85° C
Frequency (Min.)	3-1300 MHz	5-1300 MHz	5-1300 MHz
Insertion Loss (Max.)			
5-100 MHz	<0.5 dB	0.8 dB	1.1 dB
100-500 MHz	<1.0 dB	1.2 dB	1.4 dB
500-1000 MHz	<1.5 dB	1.8 dB	2.0 dB
1000-1300 MHz	<2.3 dB	2.6 dB	2.8 dB
Isolation (Min.)			
5-100 MHz	>50.0 dB	45.0 dB	43.0 dB
100-500 MHz	>40.0 dB	35.0 dB	33.0 dB
500-1000 MHz	>32.0 dB	28.0 dB	26.0 dB
1000-1300 MHz	>28.0 dB	24.0 dB	22.0 dB
SWR (Max.)			
Input	1.2:1 [^]	1.3:1 [^]	1.4:1 [^]
Output	1.3:1 [^]	1.4:1 [^]	1.5:1 [^]
Power Output (Min.)			
@ 1dB comp.			
100-400 MHz	>19.0 dBm	+18.5 dBm	+18.0 dBm
400-1300 MHz	>25.0 dBm	+23.5 dBm	+23.0 dBm
Switching Time			
50% TTL-10%	10 ηsec	15 ηsec	20 ηsec
50% TTL-10%	10 ηsec	30 ηsec	40 ηsec
DC Current (Max.)	5 mA	6 mA	6 mA

* Measured in a 50-ohm system at +5 Vdc unless otherwise specified.
[^] 0.3:1 dB higher above 1000 MHz.

INTERMODULATION PERFORMANCE

Typical @ 25° C, +5 Volts, and 100 MHz

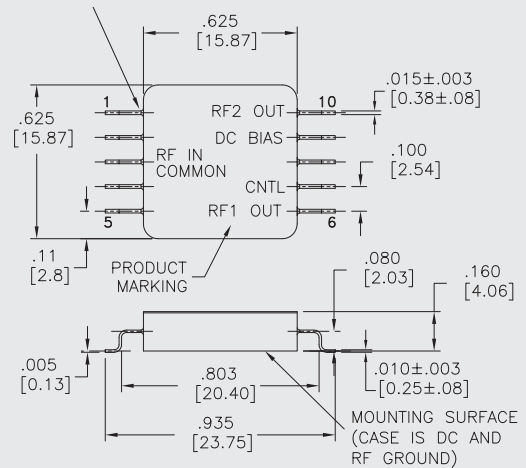
Second Order Two Tone Intercept Point	+56 dBm
Third Order Two Tone Intercept Point	+42 dBm

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ABSOLUTE MAXIMUM RATINGS

Storage Temperature	-62 to 125° C
Maximum Case Temperature	+150° C
Maximum DC Voltage	+5 Volts
Maximum Continuous RF Input Power	+35 dBm
Maximum Short Term Input Power (1 Minute Max.)	+35 dBm
Maximum Peak Power (3 μsec Max.)	+37 dBm
Burn-in Temperature	+125° C

10-pin Gullwing SPDT Switch Package



PIN 1, 2, 4, 5, AND 8 HAVE NO CURRENT.

DIMENSIONS ARE IN INCHES [MILLIMETERS]