

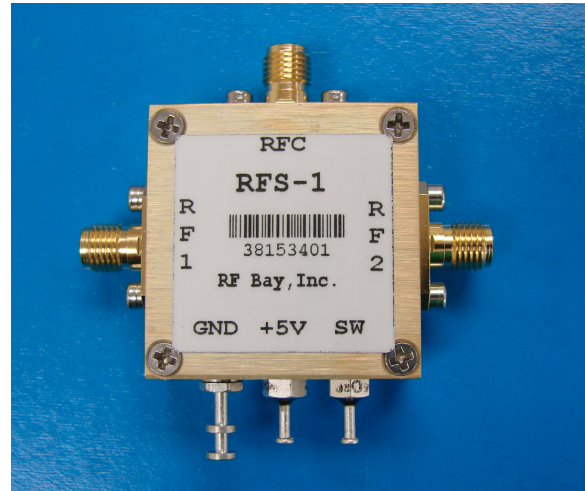
RFS Series

30 – 530MHz 5W SPDT RF Switch

Features

- Frequency Range: 30 - 530MHz
- Insertion Loss: 1dB
- Isolation: 50dB
- Maximum Input P_{in}: +37dBm
- Switching Time: 0.14µs
- DC Power: 5V/<1mA
- SMA Connector

Picture



Description

RFS-1 is a 5W Single Pole Double Throw (SPDT) RF Switch operates in frequency range from 30MHz to 530MHz.

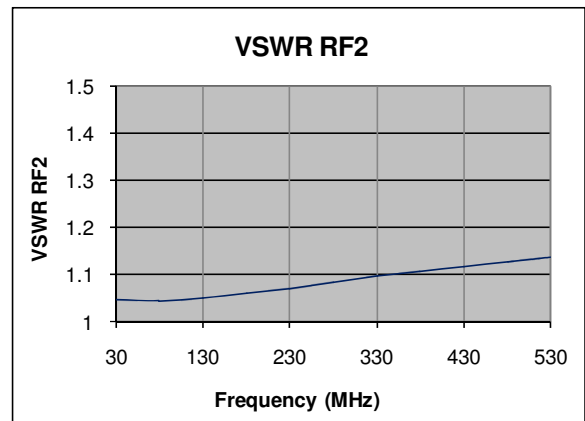
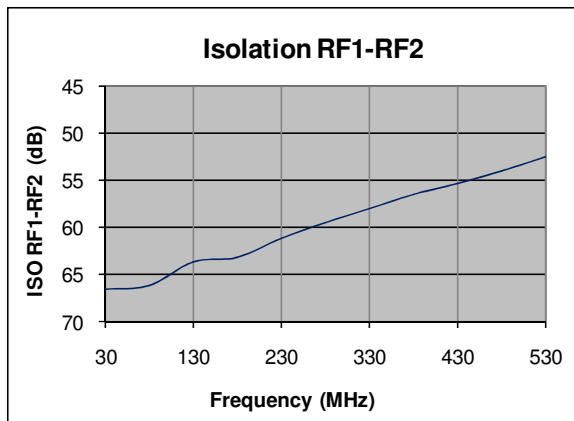
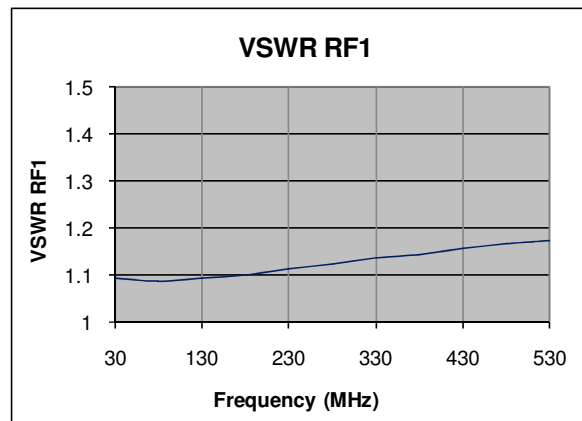
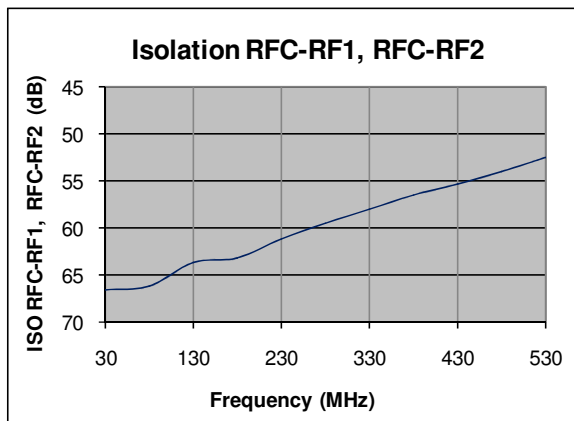
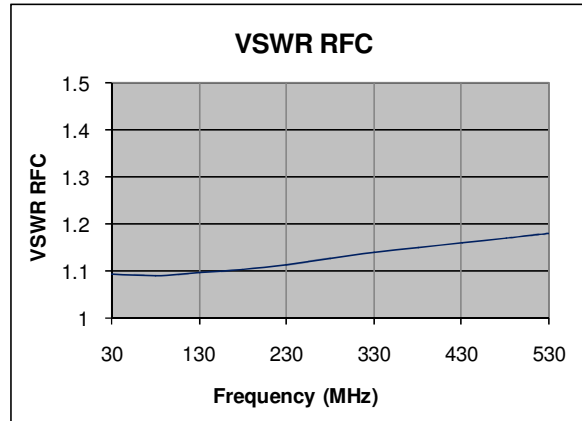
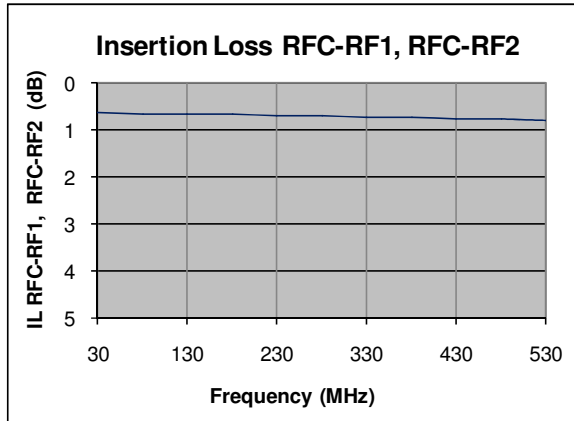
Electrical Specifications @ +25 °C, 50 Ω System, Vsupply=+5V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	30		530
Insertion Loss	30MHz		0.65	0.8
	250MHz		0.70	0.9
	530MHz		0.80	1.0
Isolation (RFC,1&2)	30MHz	60	66	
	250MHz	55	60	
	530MHz	50	53	
Isolation (RF1&2)	30MHz	60	67	
	250MHz	55	59	
	530MHz	50	53	
VSWR (30 – 530MHz)			1.2:1	1.5:1
Maximum Input P _{in}	dBm	+37		
Switching Time	µs		0.14	0.2
Control Voltage V _{sw} (HCMOS)	V	0		5
DC Power Supply	V	4.5	5	5.5
Supply Current	mA		<1	

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Typical Performance at 25°C



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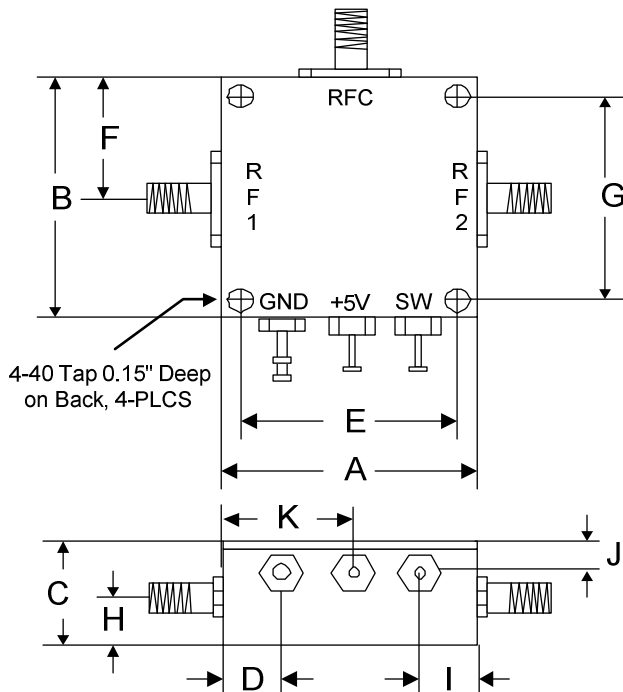
Absolute Maximum Ratings

Parameter	Absolute Maximum
Supply Voltage	+6V
RF Input Power	+38dBm
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

Truth table

Control Input V_{sw}	Signal Path State
High (+5V)	RF1 to RFC
Low (0V)	RF2 to RFC

Outline



	A	B	C	D	E	F	G	H	I	J	K
Inch	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187	0.625
mm	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76	15.88