

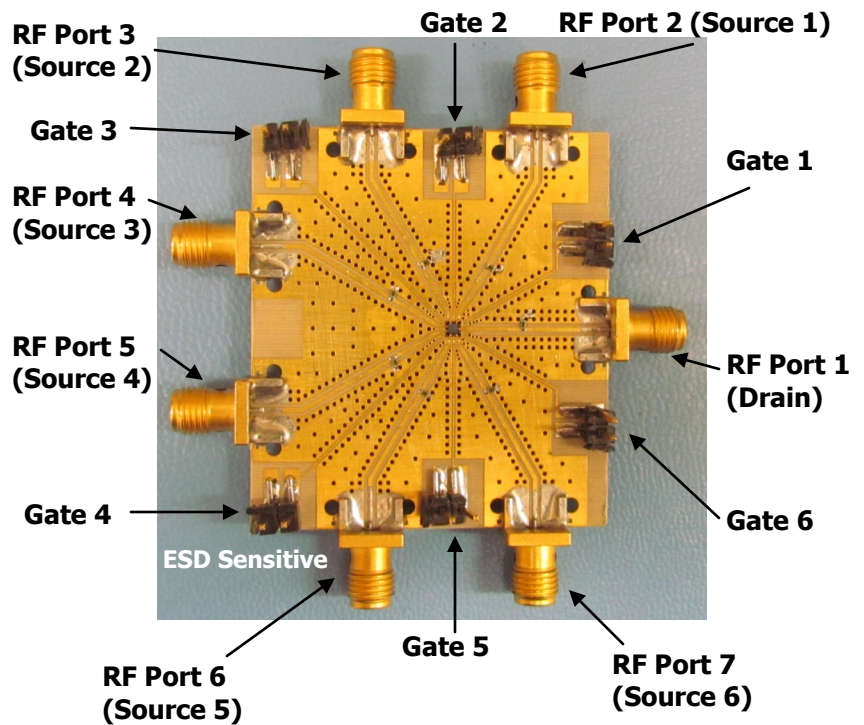
General Description

The evaluation test board has one RMSW260 SP6T RF switch connected to seven SMA RF connectors. The board requires an external supply to provide the gate actuation voltages. Each drain and source connection is triple-bonded to minimize insertion loss and grounded through a 40 kΩ resistor to ensure proper switching and to prevent static damage.

This evaluation board operates at a reduced frequency range in comparison to the native device due to design and material limitations of the evaluation board.

Note

When attaching cables to this evaluation test board's SMA connectors, be sure to secure each connector's flange with another wrench. Failure to do so while attaching cables could stress the board and break electrical connections.

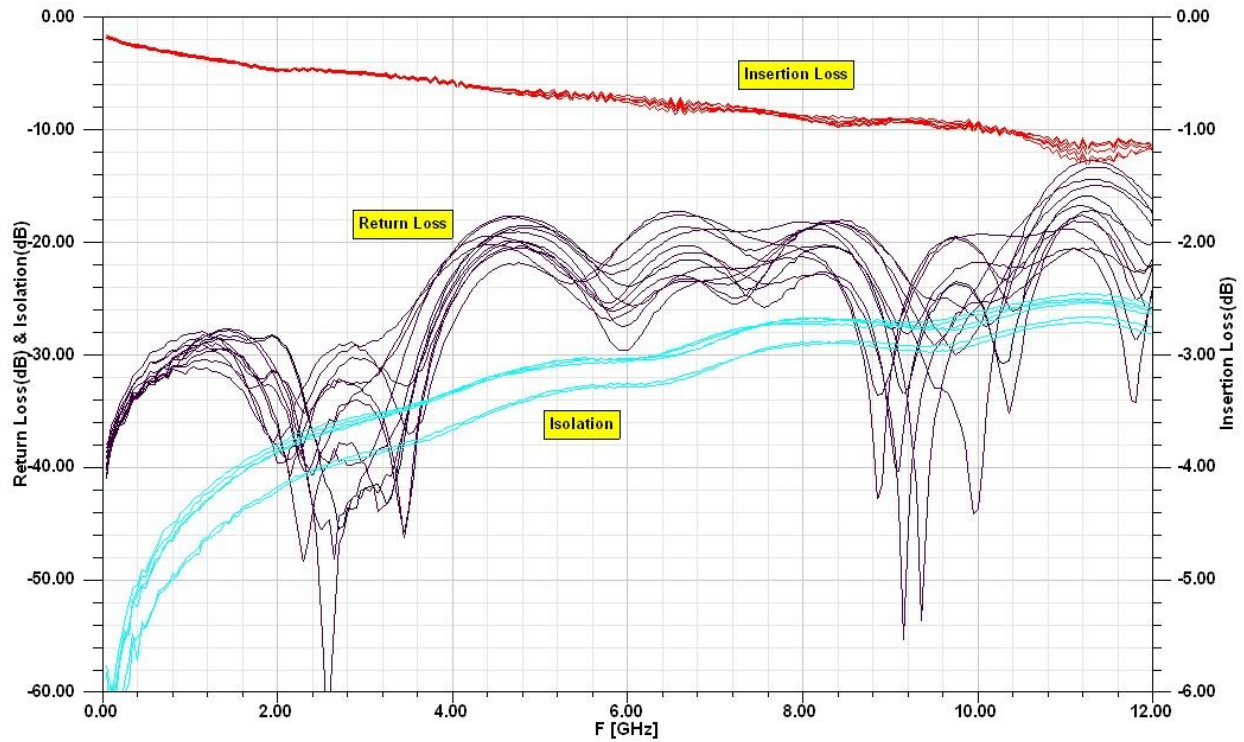


Connections for RF Testing

Gate 1	Gate 2	Gate 3	Gate 4	Gate 5	Gate 6	RF Port 2	RF Port 3	RF Port 4	RF Port 5	RF Port 6	RF Port 7
+/-90 V	0 V	0 V	0 V	0 V	0 V	ON	OFF	OFF	OFF	OFF	OFF
0 V	+/-90V	0 V	0 V	0 V	0 V	OFF	ON	OFF	OFF	OFF	OFF
0 V	0 V	+/-90V	0 V	0 V	0 V	OFF	OFF	ON	OFF	OFF	OFF
0 V	0 V	0 V	+/-90V	0 V	0 V	OFF	OFF	OFF	ON	OFF	OFF
0 V	0 V	0 V	0 V	+/-90V	0 V	OFF	OFF	OFF	OFF	ON	OFF
0 V	0 V	0 V	0 V	0 V	+/-90V	OFF	OFF	OFF	OFF	OFF	ON

RMSW260-EV12 Evaluation Test Board

Typical Performance For Six RF Ports



Frequency	Return Loss (dB) (input and output)	Isolation (dB)	Insertion Loss (dB)
50 MHz	-40.0	58.0	0.20
2 GHz	-29.0	38.0	0.43
4 GHz	-21.0	34.0	0.60
6 GHz	-29.0	30.0	0.70
8 GHz	-18.0	27.0	0.90
10 GHz	-19.0	26.0	1.00
12 GHz	-16.0	26.0	1.20

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