

General Description

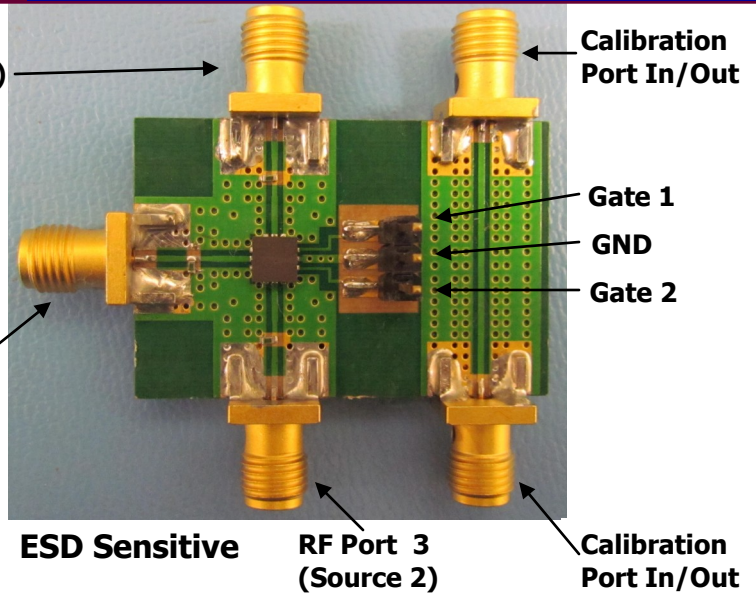
The evaluation test board has one RMSW221-QFN SPDT RF switch and three SMA RF connectors, as well as a calibration line. The board requires an external supply to provide the gate (actuation) voltages.

Connections For RF

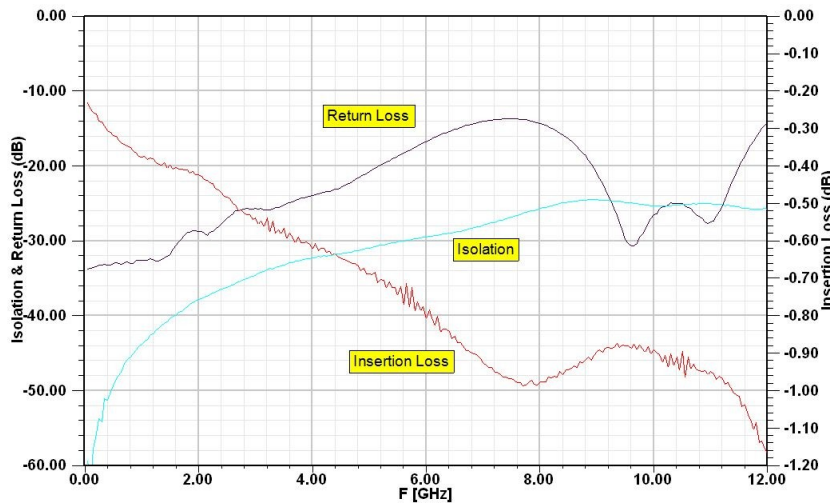
GATE 1	GATE 2	RF PORT 2	RF PORT 3
+/-90 V	0 V	ON	OFF
0 V	+/-90 V	OFF	ON

RF Port 2
(Source 1)

RF Port 1
(Drain)



Typical Performance for Device RF Ports



Frequency	Return Loss (dB)	Isolation (dB)	Insertion Loss (dB)
50 MHz	-32.0	60.0	0.24
2 GHz	-28.0	38.0	0.41
4 GHz	-24.0	32.0	0.61
6 GHz	-16.5	29.0	0.80
8 GHz	-14.3	26.0	0.99
10 GHz	-26.0	25.0	0.90
12 GHz	-14.0	26.0	1.16

External DC ground return resistors are provided on the board.

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.

RADANT MEMS INC.

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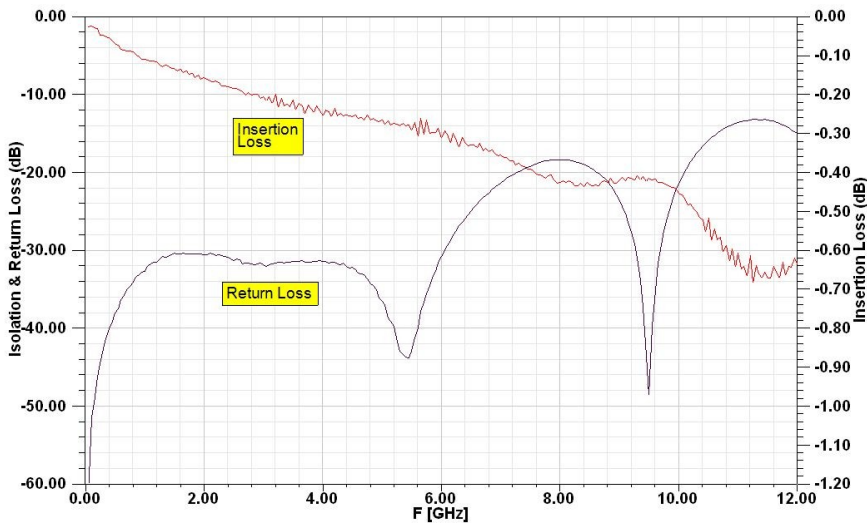
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RMSW221QFN-EV12 Evaluation Test Board

Calibration Line Performance



Frequency	Return Loss (dB)	Insertion Loss (dB)
50 MHz	-60.0	0.03
2 GHz	-30.2	0.16
4 GHz	-31.7	0.24
6 GHz	-31.0	0.30
8 GHz	-18.5	0.44
10 GHz	-21.5	0.46
12 GHz	-15.0	0.64

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