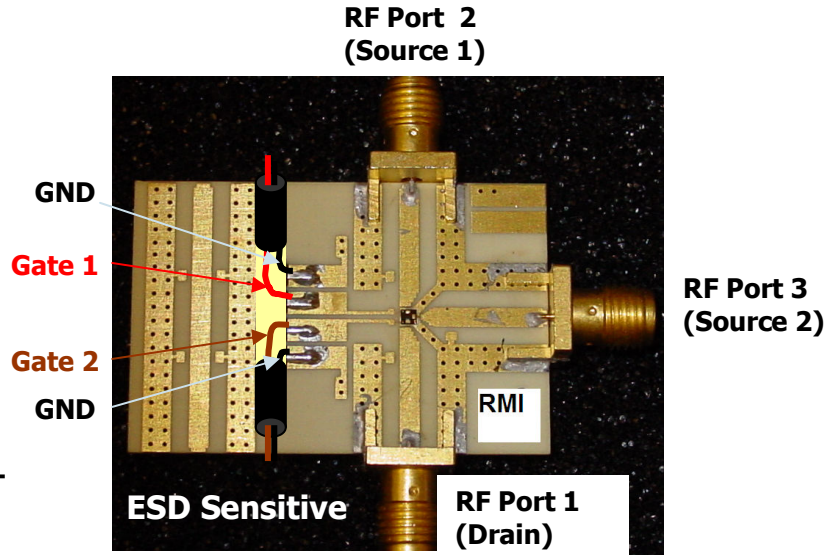


General Description

The evaluation test board has one RMSW220HP™ SPDT RF switch: a SPDT switch, with SMA RF connectors. The board will require an external supply to provide the gate (actuation) voltage.

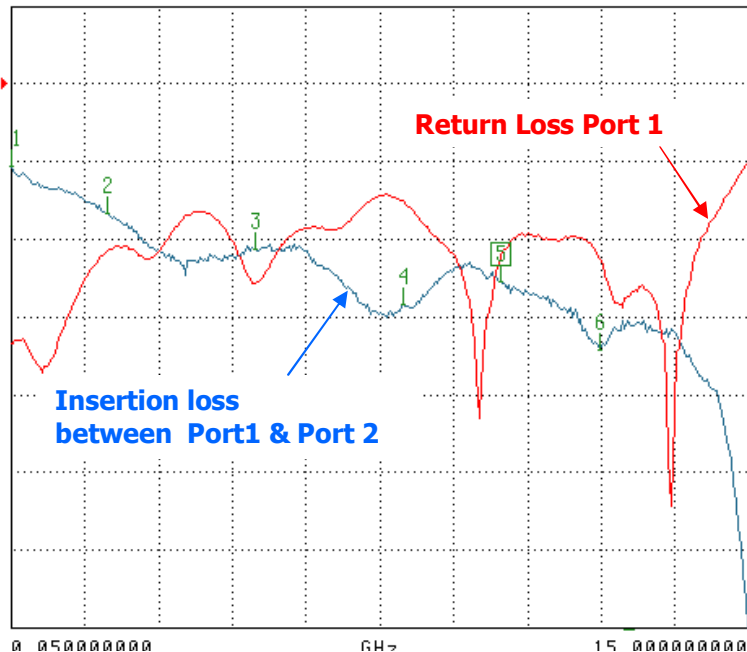
- External DC ground return is required at all RF ports. See RMSW220HP data-sheet for details.



CH1: S11 FWD REFL
 LOG MAGNITUDE
 REF= 0.000 dB
 10.000 dB/DIV

CH3: S21 FWD TRANS
 LOG MAGNITUDE
 REF= 0.000 dB
 0.200 dB/DIV

CH 3 - S21
 REFERENCE PLANE
 0.0000 mm



Insertion Loss (Test Board minus Reference Line Loss)

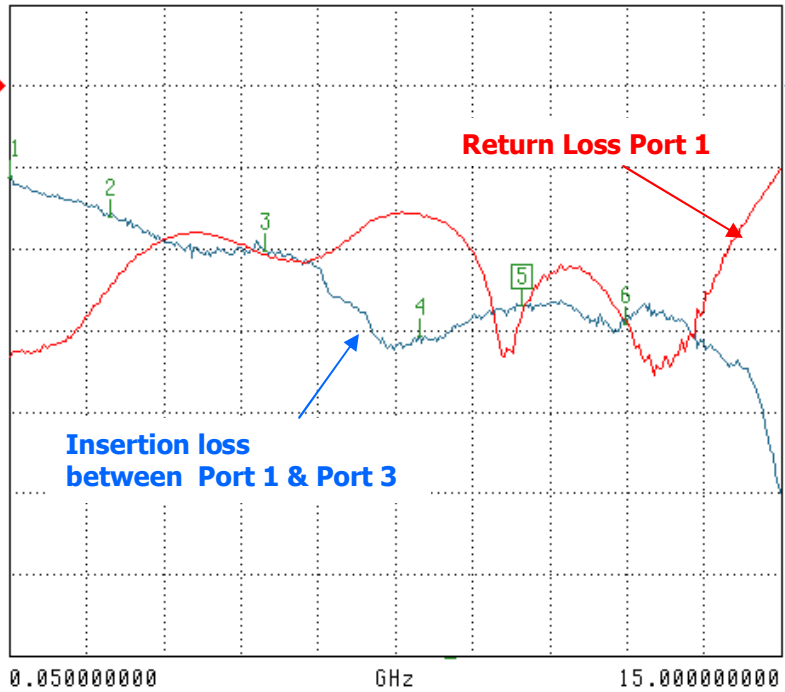
Gate 1	Gate 2	RF Port 2	RF Port 3
+/-100 V	0 V	ON	OFF
0 V	+/-100 V	OFF	ON

RMSW220HP-EV12 Evaluation Test Board

CH1: S11 FWD REFL
LOG MAGNITUDE
REF=0.000 dB
10.000 dB/DIV

CH3: S21 FWD TRANS
LOG MAGNITUDE
REF=0.000 dB
0.200 dB/DIV

CH 3 - S21
REFERENCE PLANE
0.0000 mm



MARKER 5
10.000000000 GHz
-0.538 dB

MARKER TO MAX
MARKER TO MIN

- 1 0.050000000 GHz
-0.225 dB
- 2 2.000000000 GHz
-0.321 dB
- 3 5.000000000 GHz
-0.407 dB
- 4 8.000000000 GHz
-0.615 dB
- 6 12.000000000 GHz
-0.585 dB

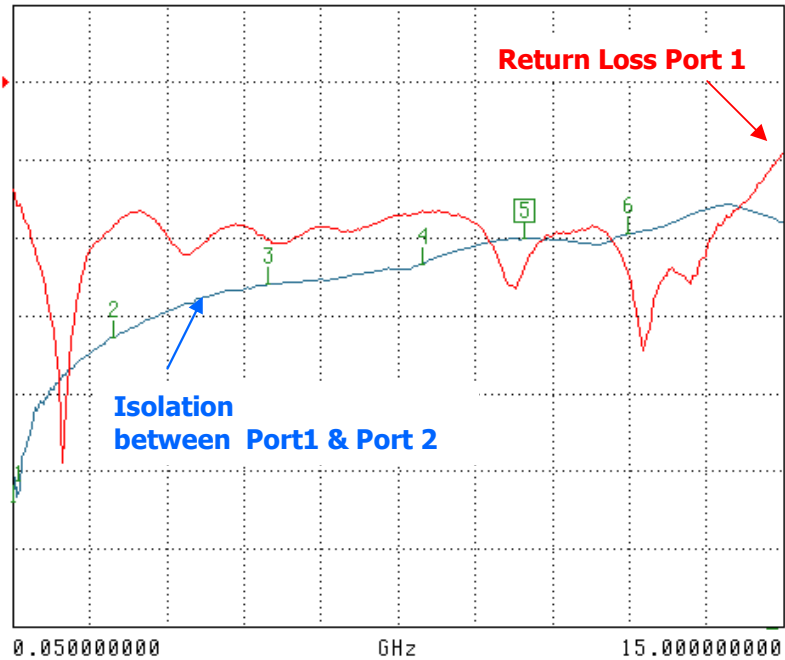
MARKER READOUT
FUNCTIONS

Insertion Loss (Test Board minus Reference Line Loss)

CH1: S11 FWD REFL
LOG MAGNITUDE
REF=0.000 dB
10.000 dB/DIV

CH3: S21 FWD TRANS
LOG MAGNITUDE
REF=0.000 dB
10.000 dB/DIV

CH 3 - S21
REFERENCE PLANE
0.0000 mm



MARKER 5
10.000000000 GHz
-20.098 dB

MARKER TO MAX
MARKER TO MIN

- 1 0.050000000 GHz
-54.018 dB
- 2 2.000000000 GHz
-32.883 dB
- 3 5.000000000 GHz
-25.962 dB
- 4 8.000000000 GHz
-23.320 dB
- 6 12.000000000 GHz
-19.443 dB

MARKER READOUT
FUNCTIONS

Isolation

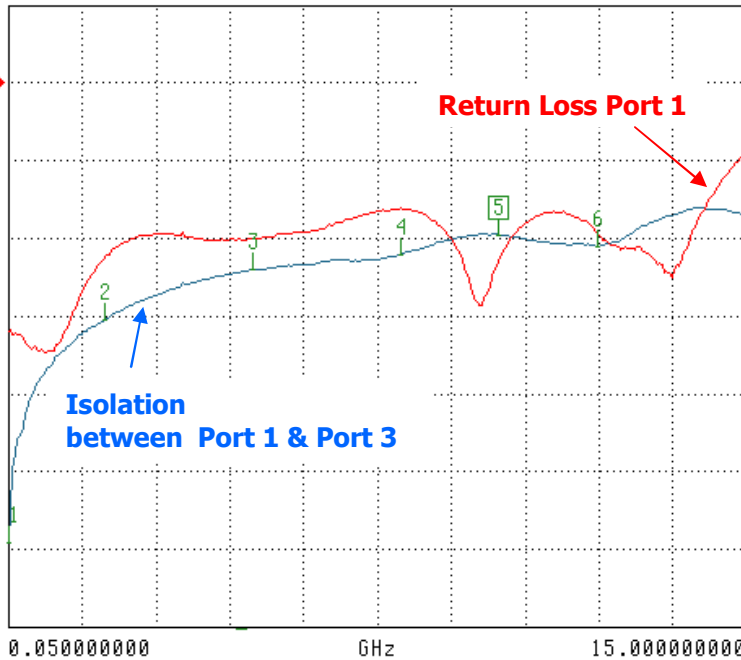
Phone: 978-

RMSW220HP-EV12™ Evaluation Test Board

CH1: S11 FWD REFL
LOG MAGNITUDE
REF=0.000 dB
10.000 dB/DIV

CH3: S21 FWD TRANS
LOG MAGNITUDE
REF=0.000 dB
10.000 dB/DIV

CH 3 - S21
REFERENCE PLANE
0.0000 mm



MARKER 5
10.000000000 GHz
-19.585 dB

MARKER TO MAX
MARKER TO MIN

- 1 0.050000000 GHz
-59.138 dB
- 2 2.000000000 GHz
-30.440 dB
- 3 5.000000000 GHz
-24.097 dB
- 4 8.000000000 GHz
-22.111 dB
- 6 12.000000000 GHz
-21.025 dB

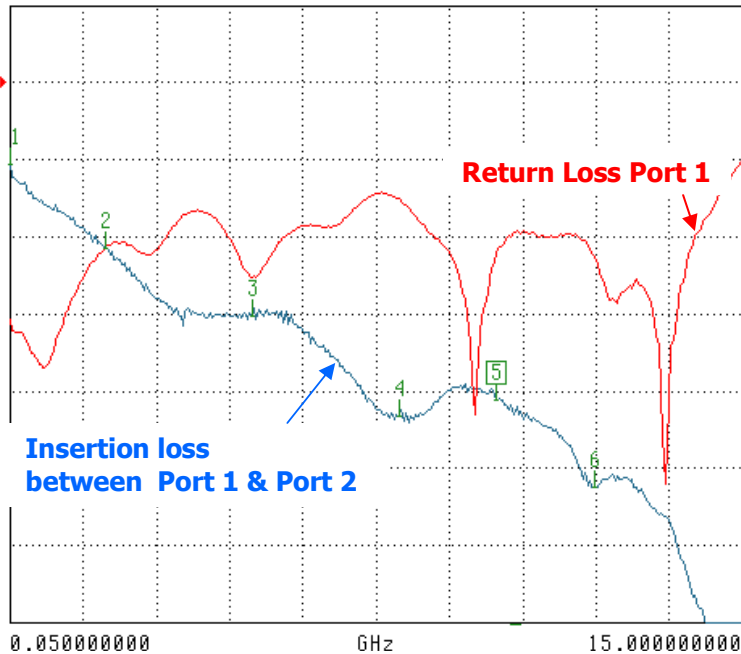
MARKER READOUT
FUNCTIONS

Isolation

CH1: S11 FWD REFL
LOG MAGNITUDE
REF=0.000 dB
10.000 dB/DIV

CH3: S21 FWD TRANS
LOG MAGNITUDE
REF=0.000 dB
0.200 dB/DIV

CH 3 - S21
REFERENCE PLANE
0.0000 mm



MARKER 5
10.000000000 GHz
-0.824 dB

MARKER TO MAX
MARKER TO MIN

- 1 0.050000000 GHz
-0.212 dB
- 2 2.000000000 GHz
-0.431 dB
- 3 5.000000000 GHz
-0.606 dB
- 4 8.000000000 GHz
-0.867 dB
- 6 12.000000000 GHz
-1.051 dB

MARKER READOUT
FUNCTIONS

Insertion loss (including transmission lines, connectors and bond-wires)

RADANT MEMS INC.

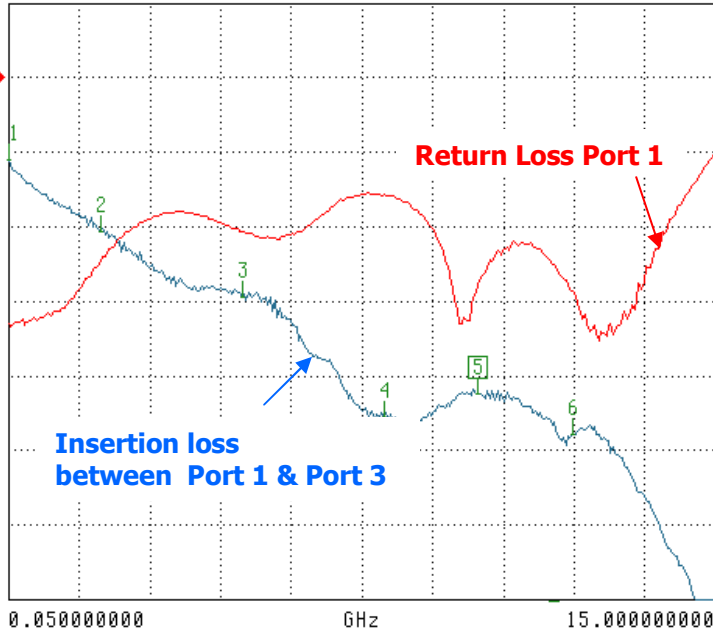
- Phone: 978-562-3866
- Fax: 978-562-6277
- Email: sales@radantmems.com
- Visit www.radantmems.com

RMSW220HP-EV12™ Evaluation Test Board

CH1: S11 FWD REFL
LOG MAGNITUDE
REF=0.000 dB
10.000 dB/DIV

CH3: S21 FWD TRANS
LOG MAGNITUDE
REF=0.000 dB
0.200 dB/DIV

CH 3 - S21
REFERENCE PLANE
0.0000 mm



MARKER 5
10.000000000 GHz
-0.849 dB

MARKER TO MAX
MARKER TO MIN

- 1 0.050000000 GHz
-0.220 dB
- 2 2.000000000 GHz
-0.412 dB
- 3 5.000000000 GHz
-0.590 dB
- 4 8.000000000 GHz
-0.914 dB
- 6 12.000000000 GHz
-0.958 dB

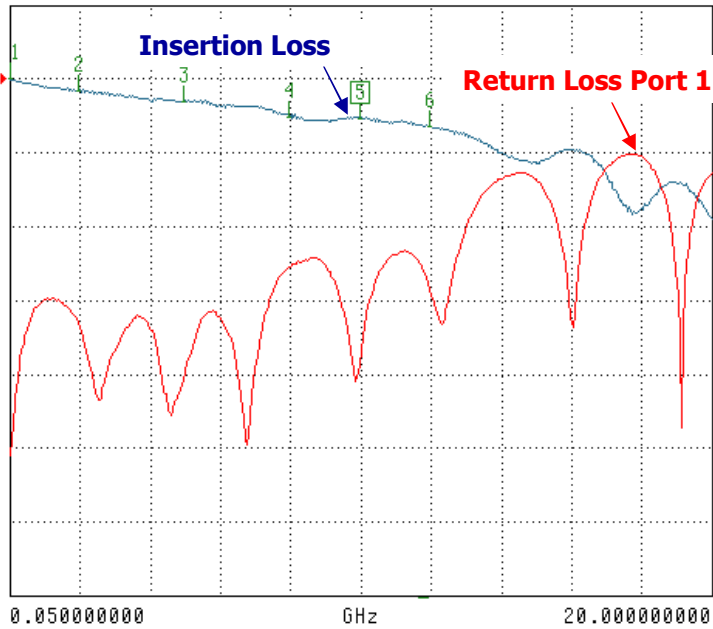
MARKER READOUT
FUNCTIONS

Insertion loss (including transmission lines, connectors and bond-wires)

CH1: S22 REV REFL
LOG MAGNITUDE
REF=0.000 dB
10.000 dB/DIV

CH3: S21 FWD TRANS
LOG MAGNITUDE
REF=0.000 dB
0.500 dB/DIV

CH 3 - S21
REFERENCE PLANE
0.0000 mm



MARKER 5
10.000000000 GHz
-0.300 dB

MARKER TO MAX
MARKER TO MIN

- 1 0.050000000 GHz
0.003 dB
- 2 2.000000000 GHz
-0.095 dB
- 3 5.000000000 GHz
-0.170 dB
- 4 8.000000000 GHz
-0.296 dB
- 6 12.000000000 GHz
-0.372 dB

MARKER READOUT
FUNCTIONS

Reference Line (Insertion Loss and Return Loss)