SP3T RF Switch

JSW3-272DR+

50Ω 5 to 2700 MHz

The Big Deal

- High Port count in super small size
- Single Positive Supply Voltage, 2.5 – 4.8V
- Low Insertion Loss, 0.6 dB at 1 GHz

CASE STYLE: MT1817

Product Overview

JSW3-272DR+ is a reflective SP3T RF switch, with reflective short on output ports in the off condition. Made using Silicon-on-Insulator process, it has very high IP3, a built-in CMOS driver and negative voltage generator. Its tiny 2x2mm, 14-lead case enables wideband performance in tight spaces and dense PCB layouts.

Key Features

Feature	Advantages
Wideband operation 5-2700 MHz	Enables a single component to be used in a vast array of applications from VHF up to 2.7 GHz.
High IIP3: 55 dBm typ.	Results in little or negligible inter-modulation generation, meeting requirements for digital communication signals.
Low Loss, 0.6 dB at 1 GHz High input power, 3W	Low loss and high power capability enable a single switch to be used for a variety of applications, saving inventory.
Built in negative voltage generator	Operates with a single positive supply voltage; no need for DC blocking capacitors, unless external DC is present at the RF ports.
Built-in CMOS driver	No need for external driver, saving PCB space and cost.
Tiny MCLP package 2 x 2mm, 14-lead	Provides low inductance, repeatable transitions, and excellent thermal contact to PCB.

SP3T RF Switch

50Ω 5-2700 MHz

Reflective RF Switch with internal driver.
Single Supply Voltage, +2.5V to +4.8V

Product Features

- High Isolation, 37 dB typ. at 1 GHz
- Low insertion loss, 0.6 dB typ. at 1 GHz
- High IP3, 59 dBm typ. at 1 GHz
- Low current consumption, 40 μA typ.

JSW3-272DR+

CASE STYLE: MT1817

+RoHS Compliant
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

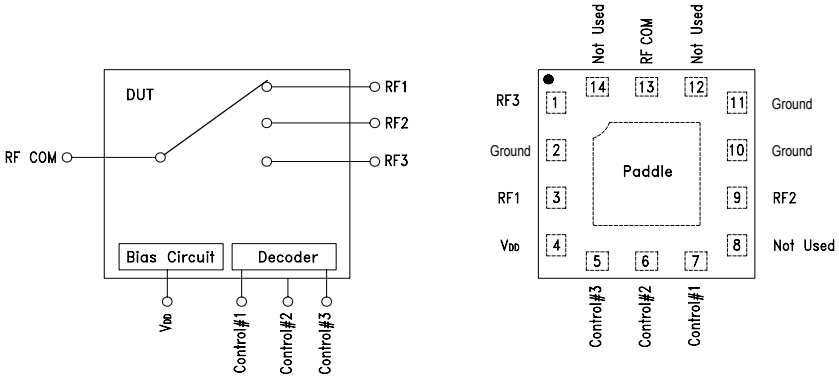
Typical Applications

- CATV systems
- SATCOM system
- Automated Test Stations
- Telecom systems

General Description

JSW3-272DR+ is a reflective SP3T switch with integral driver, operates with single positive supply voltage while consuming, 40 μA typical. It has been designed for very wideband operation of 5-2700 MHz. It is packaged in a tiny 14-lead 2mm x 2mm x 0.55mm package and is rated MSL1 and class 1B ESD.

Simplified Schematic and Pad Description



Function	Pad Number	Description
RF COM	13	RF Common/ SUM Port
RF1	3	RF Out #1/In Port #1
RF2	9	RF Out #2/In Port #2
Ground	2	Ground Externally
Ground	10	Ground Externally
RF3	1	RF Out #5/In Port #5
Ground	11	Ground Externally

Function	Pad Number	Description
Control #1	7	Control IN #1
Control #2	6	Control IN #2
Control #3	5	Control IN #3
VDD	4	Supply Voltage
Ground	Paddle	Ground Externally
Not Used	8,12,14	No Connection

RF Electrical Specifications[1], 5 - 2700 MHz, T_{AMB}=25°C, V_{DD}= +2.5 to 4.8V

Parameter	Condition (MHz)	Min.	Typ.	Max.	Units
Frequency Range		5		2700	MHz
Insertion Loss[2]	5 to 1000	—	0.6	0.8	dB
	1000 to 2000	—	0.6	0.8	
	2000 to 2700	—	0.6	0.8	
Isolation between Common Port and RF1 to RF3 Ports [3]	5 to 1000	35	37	—	dB
	1000 to 2000	28	30	—	
	2000 to 2700	25	27	—	
Return Loss (ON STATE) RF-COM, RF1 to RF3 Ports	5 to 1000	—	15.5	—	dB
	1000 to 2000	—	14.2	—	
	2000 to 2700	—	14.3	—	
Input IP3 V_{DD}=2.5 to 4.8V	5 to 500	—	55	—	dBm
V_{DD}=3.0V	1000 to 2700	—	59	—	
0.1dB Input Compression[4]	5 to 2700	—	35	—	dBm

DC Electrical Specifications

Parameter	Min.	Typ.	Max.	Units
VDD, Supply Voltage	2.5	3.0	4.8	V
Supply Current (V_{DD} = 3V)		40		µA
Control Voltage Low	0		0.4	V
Control Voltage High[5]	1.35	1.8	2.7	V
Control Current		0.5	1.0	µA
Shutdown Current at V_{DD} = 3V		5		µA

Notes:
1. As measured in Mini-Circuit's test board TB-724-3+ (see Characterization Test Circuit, Fig.1).
2. Insertion loss values are de-embedded from test board loss.
3. Isolations for other port combinations, see Tables 1 & 2
4. Do not exceed RF input power as shown in Absolute Maximum Rating table.
5. If V_{DD} <2.7V, then Max Control Voltage high=V_{DD}

Switching Specifications

Parameter	Min.	Typ.	Max.	Units
Rise/Fall Time (10 to 90% or 90 to 10% RF)	—	0.42 (Rise Time) 0.84 (Fall Time)	—	µSec
Switching Time, 50% CTRL to 90/10% RF	—	1.9 (ON Time) 1.4 (OFF Time)	—	µSec
Video Feedthrough, (control 0 to 1.65V, freq.=10 KHz)	—	3.0	—	mV_{P-P}

Table 1. Isolation Matrix (RF-COM to RF1 to RF3 Ports)

	Frequency (GHz)	Isolation Typ. (dB) "ON" Port		
RF Com to Port		RF1	RF2	RF3
RF1	0.01-1.0	---	49	53
RF1	1.0-2.0	---	43	38
RF1	2.0-2.7	---	40	34
RF2	0.01-1.0	48	---	48
RF2	1.0-2.0	43	---	42
RF2	2.0-2.7	39	---	39
RF3	0.01-1.0	44	39	---
RF3	1.0-2.0	33	34	---
RF3	2.0-2.7	28	31	---

Table 2. Isolation Matrix (Between Output Ports)

	Frequency (GHz)	Isolation Typ. (dB) "ON" Port & to Port		
From Port		RF1	RF2	RF3
RF1	0.01-1.0	---	54	37
RF1	1.0-2.0	---	45	32
RF1	2.0-2.7	---	41	28
RF2	0.01-1.0	54	---	55
RF2	1.0-2.0	44	---	45
RF2	2.0-2.7	40	---	41
RF3	0.01-1.0	44	58	---
RF3	1.0-2.0	37	45	---
RF3	2.0-2.7	32	42	---

Absolute Maximum Ratings[6]

Parameter	Ratings
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to 150°C
V_{DD}, Supply Voltage	5.0V
Voltage Control	-0.5V Min. 3.0 Max.
RF input power[7]	5 Watt

6. Operation of this device above any of these conditions may cause permanent damage.
7. Derate linearly to 2.5W at 85°C.

Truth Table[8] (State of control voltage selects the desired switch state)

State of Control Voltages			RF Common to		
Control #1	Control #2	Control #3	RF1	RF2	RF3
L	L	L	ON	—	—
L	L	H	—	ON	—
H	L	L	—	—	ON
H	H	H	Shutdown		

8. Any control state not defined above, places the switch in an undefined state, but will not damage the switch.

Characterization Test Circuit

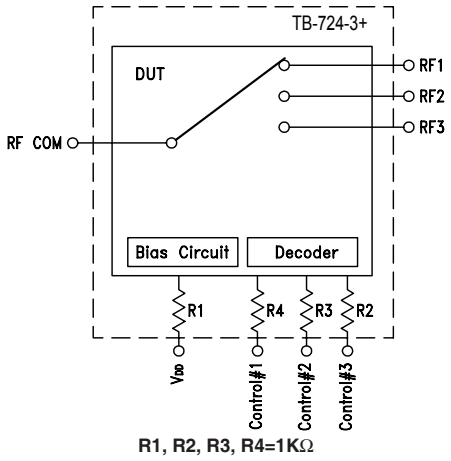


Figure 1: Block Diagram Of Test Circuit Used For Characterization.
(DUT soldered on Mini-Circuits' TB-724-3+)

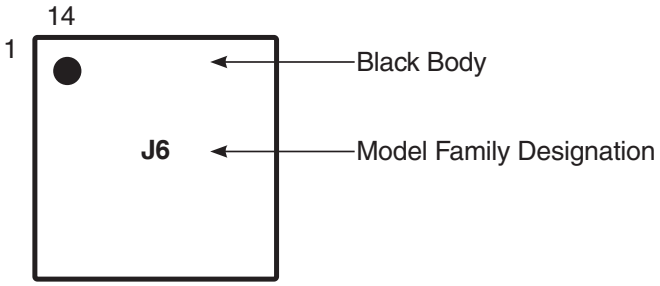
Test Equipment:

For Insertion loss, Isolation, Return loss:
Agilent's N5230A Network Analyzer , E3631A power supply.
For Switching Time and Video Feed through
Agilent's HP81110A pulse generator, 54833A Oscilloscope, E3631A power supply.
Agilent's N9020A Spectrum Analyzer, E8257D Generator, E3631A power supply
For Compression:
R&S Network Analyzer ZVA24, E3631A power supply.

Conditions:

V_{DD}= +2.5, +3.0 and +4.8V, Control= 0 and 1.35V.
For Insertion loss, isolation and return loss: Pin=0 dBm
For Input IP3: Pin=+10dBm/tone at V_{DD}=3V
For Switching time: RF frequency: DC at 200mV, Control Frequency: 10 KHz and 0 and +8V.

Product Marking



Recommended Application Circuit

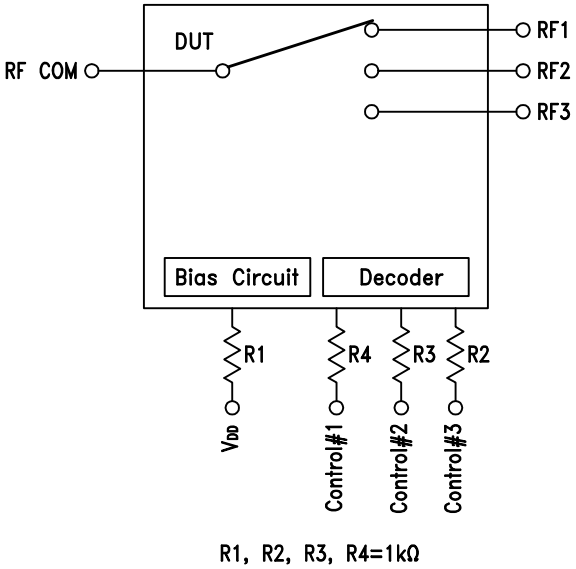


Fig. 2: Evaluation board includes case, connectors and components soldered to PCB.

Additional Detailed Technical Information *additional information is available on our dash board. To access this information click here*	
Performance Data	Data Table
	Swept Graphs
Case Style	MT1817 *Plastic package; Lead finish: Matte Tin*
Tape & Reel **Standard quantities available on reel**	F108 *7" reels with 20, 50, 100, 200, 500, 1K or 3K devices*
Suggested Layout for PCB Design	PL-461
Evaluation Board	TB-724-3+
Environmental Ratings	ENV75

ESD Rating

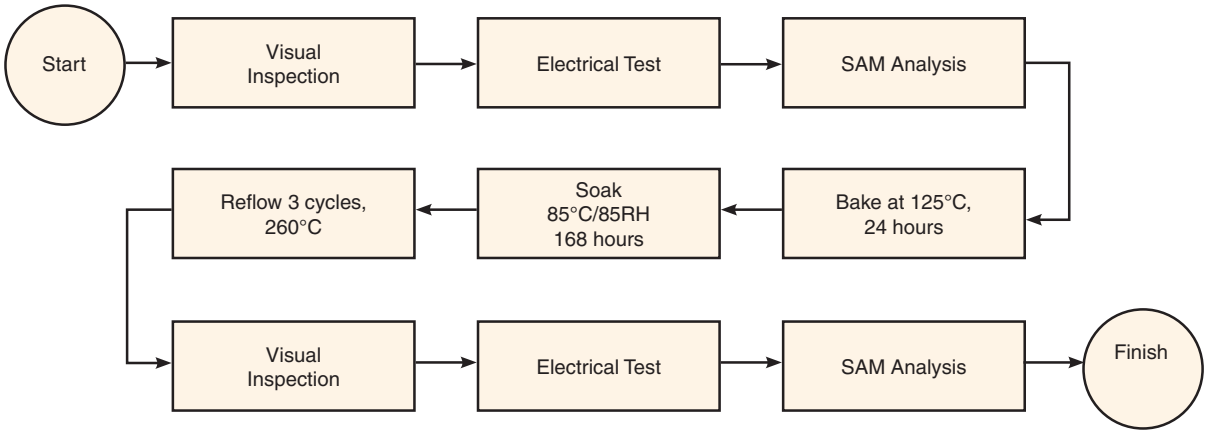
Human Body Model (HBM): Class 1B (500 to < 1000V) in accordance with JESD22-A114

Machine Model (MM): Class A (Pass 100V) in accordance with JESD22-A115

MSL Rating

Moisture Sensitivity: MSL1 in accordance with IPC/JEDEC J-STD-020D

MSL Test Flow Chart



Additional Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

Typical Performance Data

RF FREQ (MHz)	INSERTION LOSS (dB)					
	VDD=+2.5V		VDD=+3V		VDD=+4.8V	
	RF COM-RF1	RF COM-RF3	RF COM-RF1	RF COM-RF3	RF COM-RF1	RF COM-RF3
10	0.40	0.41	0.41	0.41	0.41	0.41
20	0.42	0.42	0.42	0.42	0.42	0.41
30	0.42	0.42	0.42	0.42	0.42	0.41
40	0.42	0.42	0.42	0.42	0.42	0.42
50	0.42	0.42	0.43	0.42	0.42	0.42
60	0.42	0.42	0.42	0.42	0.42	0.42
70	0.42	0.42	0.42	0.42	0.42	0.42
80	0.42	0.42	0.43	0.42	0.42	0.42
90	0.43	0.42	0.43	0.42	0.43	0.42
100	0.43	0.42	0.43	0.42	0.43	0.42
200	0.43	0.43	0.43	0.43	0.43	0.43
300	0.43	0.43	0.43	0.43	0.43	0.43
400	0.43	0.44	0.44	0.44	0.44	0.44
500	0.43	0.44	0.43	0.44	0.43	0.44
600	0.44	0.44	0.44	0.44	0.44	0.44
700	0.44	0.44	0.44	0.44	0.44	0.44
800	0.43	0.43	0.43	0.43	0.43	0.44
900	0.43	0.44	0.44	0.44	0.44	0.44
1000	0.43	0.43	0.43	0.43	0.43	0.43
1100	0.42	0.43	0.42	0.43	0.42	0.43
1200	0.42	0.43	0.43	0.42	0.43	0.43
1300	0.42	0.42	0.42	0.42	0.43	0.42
1400	0.41	0.41	0.41	0.41	0.41	0.41
1500	0.41	0.41	0.41	0.41	0.41	0.41
1600	0.42	0.41	0.42	0.41	0.42	0.41
1700	0.40	0.41	0.40	0.40	0.41	0.41
1800	0.40	0.40	0.40	0.39	0.40	0.40
1900	0.40	0.41	0.40	0.40	0.41	0.41
2000	0.40	0.40	0.40	0.40	0.40	0.40
2100	0.37	0.37	0.37	0.37	0.38	0.38
2200	0.38	0.38	0.38	0.38	0.38	0.38
2300	0.37	0.38	0.37	0.37	0.38	0.38
2400	0.35	0.34	0.35	0.34	0.35	0.34
2500	0.35	0.34	0.35	0.33	0.36	0.34
2600	0.34	0.33	0.35	0.33	0.35	0.33
2700	0.34	0.32	0.34	0.32	0.35	0.32
2800	0.36	0.34	0.36	0.34	0.36	0.34

RF FREQ (MHz)	ISOLATION (dB)											
	VDD=+2.5V		VDD=+3V		VDD=+4.8V		VDD=+2.5V		VDD=+3V		VDD=+4.8V	
	RF COM-RF1 (RF2 ON)	RF COM-RF3 (RF2 ON)	RF COM-RF1 (RF2 ON)	RF COM-RF3 (RF2 ON)	RF COM-RF1 (RF2 ON)	RF COM-RF3 (RF2 ON)	RF1-RF2 (RF1 ON)	RF1-RF3 (RF1 ON)	RF1-RF2 (RF1 ON)	RF1-RF3 (RF1 ON)	RF1-RF2 (RF1 ON)	RF1-RF3 (RF1 ON)
10	57.61	60.24	56.08	57.18	62.30	60.67	57.30	62.99	56.15	55.33	59.29	57.12
20	80.10	75.40	100.60	81.38	74.87	75.58	79.80	65.22	82.05	63.93	75.45	64.81
30	82.27	75.29	77.80	75.63	82.69	77.17	86.99	61.95	83.87	62.09	87.69	61.48
40	78.08	73.66	76.16	73.56	82.00	71.81	79.47	58.97	86.71	59.62	83.98	59.44
50	63.00	59.22	60.23	61.82	62.71	60.31	62.29	54.25	61.09	65.15	61.07	53.80
60	74.59	63.49	69.68	74.94	68.23	68.88	70.49	55.82	66.86	57.60	66.49	55.39
70	74.76	67.25	74.42	68.04	73.78	67.92	83.18	54.47	77.59	54.69	79.29	54.26
80	72.32	66.87	71.36	66.57	72.65	66.27	76.58	53.23	79.08	53.36	81.20	53.28
90	70.14	66.04	70.11	65.26	71.48	65.06	74.85	52.43	80.46	52.29	79.79	52.37
100	69.12	65.31	69.72	64.38	70.08	64.88	74.73	51.57	76.87	51.47	76.53	51.57
200	64.53	58.56	63.94	58.30	64.22	58.33	69.00	45.44	69.56	45.41	70.05	45.44
300	60.31	54.96	60.56	54.99	60.07	54.90	65.81	41.98	66.27	41.89	66.43	42.03
400	57.95	52.41	57.78	52.33	57.92	52.49	62.60	39.48	62.41	39.50	62.75	39.48
500	55.98	50.50	55.73	50.41	55.78	50.39	60.76	37.44	61.32	37.47	61.13	37.47
600	54.10	48.82	54.13	48.78	54.20	48.80	58.92	35.93	59.11	35.93	58.93	35.94
700	52.92	47.43	52.92	47.40	53.01	47.33	57.79	34.53	57.65	34.51	57.74	34.52
800	51.83	46.26	51.73	46.22	51.65	46.17	56.65	33.28	56.72	33.28	56.62	33.29
900	50.63	45.14	50.75	45.14	50.72	45.15	55.22	32.30	55.14	32.31	55.11	32.30
1000	49.80	44.08	49.75	44.11	49.67	44.09	53.76	31.41	53.76	31.40	53.76	31.41
1100	49.19	43.30	49.14	43.29	49.09	43.32	52.96	30.46	52.90	30.46	52.87	30.47
1200	48.18	42.57	48.24	42.58	48.21	42.58	52.31	29.64	52.31	29.64	52.21	29.65
1300	47.68	41.85	47.69	41.84	47.58	41.87	50.96	29.10	50.91	29.10	51.12	29.10
1400	46.87	41.32	46.92	41.30	46.91	41.28	50.09	28.43	50.10	28.43	50.00	28.44
1500	46.07	40.65	46.07	40.64	46.09	40.64	48.87	27.93	48.87	27.92	48.92	27.92
1600	45.93	40.22	45.91	40.19	45.89	40.22	48.03	27.40	48.05	27.40	48.03	27.41
1700	44.93	39.74	44.93	39.73	45.11	39.77	47.70	26.89	47.72	26.88	47.69	26.89
1800	44.96	39.37	44.98	39.36	44.99	39.38	46.35	26.71	46.30	26.71	46.26	26.71
1900	44.23	39.07	44.22	39.05	44.17	39.04	45.77	26.20	45.84	26.20	45.78	26.20
2000	43.18	38.36	43.24	38.37	43.30	38.40	45.00	25.89	45.04	25.88	44.96	25.90
2100	43.16	38.06	43.14	38.08	43.17	38.07	43.92	25.44	43.96	25.44	43.98	25.45
2200	42.15	37.83	42.23	37.81	42.27	37.79	44.07	25.01	44.11	25.00	44.10	25.00
2300	41.71	37.00	41.73	37.02	41.52	36.94	42.87	24.96	42.90	24.96	42.97	24.99
2400	41.31	36.85	41.33	36.85	41.46	36.93	42.21	24.34	42.23	24.34	42.20	24.35
2500	40.93	36.50	40.93	36.50	40.82	36.47	42.27	24.05	42.25	24.05	42.03	24.03
2600	40.14	35.73	40.15	35.71	40.16	35.77	41.43	23.78	41.49	23.78	41.45	23.81
2700	39.99	35.63	40.00	35.64	39.85	35.61	41.15	23.17	41.16	23.16	41.07	23.19
2800	39.34	35.05	39.32	35.04	39.22	35.04	41.08	23.03	41.06	23.02	41.10	23.04

Typical Performance Data

RF FREQ (MHz)	VSWR (:1) (ON STATE)											
	VDD=+2.5V				VDD=+3V				VDD=+4.8V			
	RF COM		RF1	RF3	RF COM		RF1	RF3	RF COM		RF1	RF3
	(RF1 ON)	(RF3 ON)	(RF1 ON)	(RF3 ON)	(RF1 ON)	(RF3 ON)	(RF1 ON)	(RF3 ON)	(RF1 ON)	(RF3 ON)	(RF1 ON)	(RF3 ON)
10	1.07	1.06	1.07	1.06	1.06	1.06	1.07	1.06	1.07	1.07	1.07	1.06
20	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
30	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
40	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
50	1.07	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.07	1.07	1.06	1.06
60	1.07	1.07	1.06	1.06	1.07	1.07	1.06	1.06	1.07	1.07	1.06	1.06
70	1.07	1.06	1.06	1.06	1.07	1.07	1.06	1.06	1.07	1.07	1.06	1.06
80	1.07	1.06	1.06	1.06	1.07	1.06	1.06	1.06	1.07	1.06	1.06	1.06
90	1.07	1.07	1.06	1.06	1.07	1.07	1.06	1.06	1.07	1.07	1.06	1.06
100	1.07	1.07	1.06	1.06	1.07	1.07	1.06	1.06	1.07	1.07	1.06	1.06
200	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
300	1.08	1.08	1.08	1.09	1.08	1.08	1.08	1.09	1.08	1.08	1.08	1.09
400	1.10	1.09	1.07	1.09	1.10	1.09	1.07	1.09	1.10	1.09	1.07	1.09
500	1.09	1.08	1.08	1.11	1.09	1.08	1.08	1.11	1.10	1.08	1.08	1.11
600	1.12	1.11	1.09	1.12	1.12	1.11	1.10	1.12	1.12	1.11	1.10	1.12
700	1.13	1.11	1.08	1.10	1.13	1.11	1.08	1.11	1.13	1.11	1.08	1.11
800	1.10	1.09	1.08	1.11	1.10	1.09	1.09	1.11	1.11	1.09	1.09	1.12
900	1.12	1.11	1.09	1.12	1.12	1.11	1.09	1.12	1.13	1.11	1.09	1.12
1000	1.12	1.10	1.06	1.09	1.12	1.10	1.06	1.09	1.12	1.10	1.06	1.09
1100	1.09	1.06	1.06	1.10	1.09	1.05	1.06	1.10	1.09	1.05	1.06	1.10
1200	1.12	1.09	1.07	1.09	1.12	1.09	1.07	1.09	1.12	1.09	1.07	1.09
1300	1.13	1.10	1.03	1.04	1.13	1.10	1.03	1.04	1.13	1.10	1.03	1.04
1400	1.08	1.05	1.04	1.08	1.08	1.05	1.04	1.08	1.08	1.05	1.04	1.08
1500	1.10	1.06	1.03	1.06	1.10	1.07	1.03	1.05	1.10	1.06	1.03	1.06
1600	1.15	1.13	1.04	1.06	1.15	1.13	1.03	1.06	1.15	1.13	1.03	1.06
1700	1.12	1.13	1.08	1.12	1.12	1.13	1.08	1.12	1.13	1.13	1.09	1.12
1800	1.10	1.10	1.05	1.09	1.10	1.10	1.05	1.09	1.10	1.10	1.05	1.09
1900	1.17	1.19	1.09	1.14	1.17	1.19	1.09	1.13	1.17	1.19	1.09	1.13
2000	1.18	1.21	1.15	1.19	1.18	1.21	1.15	1.19	1.18	1.21	1.15	1.19
2100	1.10	1.13	1.10	1.14	1.10	1.13	1.10	1.14	1.09	1.13	1.10	1.14
2200	1.16	1.19	1.10	1.14	1.16	1.19	1.11	1.15	1.16	1.19	1.11	1.15
2300	1.16	1.20	1.15	1.20	1.16	1.20	1.16	1.20	1.16	1.20	1.16	1.20
2400	1.05	1.09	1.12	1.12	1.06	1.09	1.12	1.12	1.05	1.08	1.11	1.12
2500	1.06	1.10	1.07	1.06	1.06	1.10	1.07	1.06	1.06	1.10	1.07	1.06
2600	1.07	1.09	1.12	1.11	1.07	1.09	1.12	1.10	1.07	1.09	1.12	1.10
2700	1.08	1.05	1.15	1.10	1.08	1.05	1.14	1.09	1.08	1.05	1.14	1.10
2800	1.11	1.13	1.11	1.10	1.11	1.13	1.11	1.10	1.11	1.13	1.12	1.10

RF FREQ (MHz)	VSWR (:1) (OFF STATE)					
	VDD=+2.5V		VDD=+3V		VDD=+4.8V	
	RF1	RF3	RF1	RF3	RF1	RF3
	(RF2 ON)	(RF1 ON)	(RF2 ON)	(RF1 ON)	(RF2 ON)	(RF1 ON)
10	3.37	3.40	3.37	3.40	3.36	3.38
20	3.35	3.37	3.35	3.37	3.34	3.36
30	3.35	3.37	3.35	3.37	3.34	3.36
40	3.35	3.37	3.35	3.37	3.34	3.36
50	3.35	3.37	3.35	3.37	3.34	3.35
60	3.35	3.37	3.35	3.37	3.34	3.35
70	3.34	3.37	3.34	3.37	3.33	3.35
80	3.34	3.36	3.34	3.36	3.33	3.35
90	3.34	3.35	3.34	3.36	3.33	3.34
100	3.34	3.35	3.34	3.35	3.33	3.34
200	3.33	3.33	3.33	3.33	3.31	3.32
300	3.31	3.31	3.31	3.31	3.30	3.30
400	3.31	3.27	3.31	3.28	3.30	3.26
500	3.30	3.24	3.30	3.24	3.29	3.23
600	3.27	3.22	3.27	3.22	3.26	3.21
700	3.26	3.20	3.26	3.20	3.25	3.18
800	3.25	3.16	3.25	3.17	3.23	3.15
900	3.21	3.15	3.22	3.15	3.21	3.14
1000	3.22	3.13	3.22	3.13	3.20	3.11
1100	3.22	3.11	3.21	3.11	3.20	3.10
1200	3.20	3.12	3.21	3.11	3.20	3.10
1300	3.20	3.11	3.20	3.11	3.18	3.09
1400	3.20	3.14	3.20	3.13	3.19	3.13
1500	3.22	3.15	3.22	3.16	3.21	3.14
1600	3.22	3.18	3.22	3.18	3.20	3.17
1700	3.23	3.22	3.24	3.22	3.23	3.20
1800	3.29	3.28	3.29	3.27	3.27	3.26
1900	3.29	3.34	3.30	3.33	3.29	3.32
2000	3.34	3.38	3.34	3.38	3.33	3.37
2100	3.42	3.46	3.41	3.47	3.39	3.45
2200	3.40	3.52	3.42	3.52	3.41	3.50
2300	3.47	3.60	3.45	3.58	3.43	3.56
2400	3.49	3.70	3.50	3.70	3.48	3.68
2500	3.47	3.70	3.48	3.70	3.45	3.68
2600	3.52	3.69	3.51	3.71	3.49	3.69
2700	3.54	3.75	3.56	3.76	3.54	3.74
2800	3.54	3.72	3.52	3.72	3.50	3.68

Typical Performance Data

RF FREQ (MHz)	INPUT IP3 (dBm) VDD=+3V	
	RF COM-RF1	RF COM-RF3
10.1	55.53	55.68
250.1	58.87	58.58
500.1	54.96	54.79
1000.1	66.99	66.51
1500.1	61.74	61.92
2000.1	61.54	60.54
2500.1	59.45	59.66
3000.1	61.24	59.89

RF FREQ (MHz)	COMPRESSION (dB) @ FIXED POWER FOR PIN=34.5dBm VDD=+3V	
	RF COM-RF1	RF COM-RF3
10.0	-0.03	0.01
20.0	0.08	0.03
30.0	-0.05	0.04
40.0	-0.02	0.03
50.0	0.03	0.02
60.0	0.01	0.00
70.0	0.01	0.01
80.0	0.00	0.00
90.0	0.01	0.01
100.0	0.00	0.00
200.0	0.01	0.00
300.0	0.00	-0.01
400.0	0.01	0.00
500.0	0.00	0.00
600.0	0.00	0.00
700.0	-0.01	0.00
800.0	-0.01	0.00
900.0	-0.02	-0.03
1000.0	-0.01	-0.02
1100.0	-0.01	-0.01
1200.0	-0.01	-0.02
1300.0	-0.01	-0.02
1400.0	-0.01	-0.03
1500.0	-0.02	-0.03
1600.0	-0.01	-0.01
1700.0	-0.02	-0.03
1800.0	-0.02	-0.02
1900.0	0.00	-0.01
2000.0	-0.01	-0.02
2100.0	-0.01	0.00
2200.0	0.00	-0.01
2300.0	0.00	-0.01
2400.0	0.00	0.01
2500.0	0.00	-0.01
2600.0	0.01	0.01
2700.0	0.01	0.01
2800.0	0.01	0.00

Typical Performance Data

RF FREQ (MHz)	INSERTION LOSS (dB) @ VDD=+3V OVER TEMPERTURE					
	RF COM-RF1			RF COM-RF3		
	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C
10	0.31	0.41	0.48	0.33	0.41	0.49
20	0.33	0.42	0.50	0.34	0.42	0.49
30	0.33	0.42	0.50	0.34	0.42	0.49
40	0.33	0.42	0.50	0.34	0.42	0.50
50	0.34	0.43	0.50	0.35	0.42	0.50
60	0.34	0.42	0.50	0.35	0.42	0.50
70	0.34	0.42	0.50	0.35	0.42	0.50
80	0.35	0.43	0.50	0.35	0.42	0.50
90	0.35	0.43	0.50	0.35	0.42	0.50
100	0.35	0.43	0.50	0.35	0.42	0.50
200	0.35	0.43	0.51	0.35	0.43	0.51
300	0.36	0.43	0.53	0.35	0.43	0.53
400	0.37	0.44	0.54	0.35	0.44	0.54
500	0.38	0.43	0.54	0.33	0.44	0.54
600	0.40	0.44	0.56	0.33	0.44	0.56
700	0.40	0.44	0.56	0.32	0.44	0.57
800	0.39	0.43	0.56	0.31	0.43	0.57
900	0.41	0.44	0.57	0.31	0.44	0.58
1000	0.39	0.43	0.58	0.30	0.43	0.58
1100	0.37	0.42	0.57	0.28	0.43	0.58
1200	0.37	0.43	0.58	0.27	0.42	0.58
1300	0.37	0.42	0.59	0.27	0.42	0.59
1400	0.34	0.41	0.58	0.25	0.41	0.58
1500	0.33	0.41	0.58	0.24	0.41	0.58
1600	0.34	0.42	0.60	0.24	0.41	0.59
1700	0.33	0.40	0.59	0.23	0.40	0.59
1800	0.32	0.40	0.58	0.22	0.39	0.58
1900	0.35	0.40	0.60	0.22	0.40	0.60
2000	0.34	0.40	0.59	0.22	0.40	0.59
2100	0.30	0.37	0.57	0.19	0.37	0.57
2200	0.32	0.38	0.59	0.19	0.38	0.58
2300	0.30	0.37	0.58	0.18	0.37	0.57
2400	0.24	0.35	0.57	0.14	0.34	0.55
2500	0.23	0.35	0.57	0.13	0.33	0.56
2600	0.22	0.35	0.57	0.12	0.33	0.55
2700	0.19	0.34	0.58	0.11	0.32	0.56
2800	0.20	0.36	0.61	0.12	0.34	0.59

RF FREQ (MHz)	ISOLATION (dB) @ VDD=+3V OVER TEMPERTURE											
	RF COM-RF1 (RF2 ON)			RF COM-RF3 (RF2 ON)			RF1-RF2 (RF1 ON)			RF1-RF3 (RF1 ON)		
	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C
10	61.53	56.08	56.20	62.20	57.18	56.46	56.03	56.15	61.41	53.23	55.33	61.68
20	80.56	100.60	83.18	88.16	81.38	75.27	80.90	82.05	73.95	63.75	63.93	65.02
30	95.14	77.80	78.13	77.57	75.63	76.57	90.81	83.87	85.97	62.52	62.09	61.58
40	80.15	76.16	74.29	71.86	73.56	73.22	91.13	86.71	80.48	60.09	59.62	59.14
50	61.71	60.23	59.63	60.85	61.82	62.60	61.11	61.09	62.60	55.73	65.15	56.02
60	73.60	69.68	65.74	71.24	74.94	64.85	67.58	66.86	71.56	54.75	57.60	56.97
70	78.65	74.42	71.47	69.13	68.04	67.71	81.32	77.59	78.48	54.75	54.69	54.32
80	73.84	71.36	69.73	67.07	66.57	66.64	81.23	79.08	76.09	53.70	53.36	53.08
90	72.17	70.11	69.55	65.90	65.26	65.81	83.16	80.46	72.64	52.72	52.29	52.10
100	71.17	69.72	69.19	65.77	64.38	64.35	83.59	76.87	71.89	51.66	51.47	51.38
200	65.94	63.94	62.68	58.86	58.30	58.22	73.44	69.56	66.85	45.55	45.41	45.29
300	62.27	60.56	59.31	55.44	54.99	54.71	69.06	66.27	63.57	42.04	41.89	41.88
400	59.07	57.78	56.66	52.87	52.33	52.04	64.47	62.41	61.12	39.58	39.50	39.37
500	57.00	55.73	54.57	50.80	50.41	50.04	63.31	61.32	59.05	37.56	37.47	37.38
600	55.37	54.13	53.01	49.17	48.78	48.39	60.66	59.11	57.32	36.01	35.93	35.85
700	53.90	52.92	51.93	47.69	47.40	47.01	59.53	57.65	56.08	34.57	34.51	34.46
800	52.68	51.73	50.69	46.47	46.22	45.81	58.05	56.72	55.11	33.29	33.28	33.27
900	51.71	50.75	49.72	45.45	45.14	44.82	56.59	55.14	53.87	32.31	32.31	32.29
1000	50.60	49.75	48.67	44.38	44.11	43.80	55.11	53.76	52.63	31.42	31.40	31.39
1100	50.12	49.14	48.19	43.57	43.29	43.04	54.07	52.90	51.68	30.43	30.46	30.49
1200	49.15	48.24	47.26	42.79	42.58	42.31	53.09	52.31	51.20	29.58	29.64	29.73
1300	48.57	47.69	46.56	42.04	41.84	41.61	51.90	50.91	50.23	29.03	29.10	29.16
1400	47.89	46.92	45.92	41.49	41.30	40.98	50.53	50.10	49.13	28.37	28.43	28.52
1500	46.92	46.07	45.24	40.85	40.64	40.40	49.39	48.87	48.21	27.84	27.92	28.01
1600	46.85	45.91	44.83	40.40	40.19	40.00	48.52	48.05	47.45	27.31	27.40	27.51
1700	45.97	44.93	44.21	39.99	39.73	39.51	48.06	47.72	47.01	26.77	26.88	27.07
1800	45.98	44.98	43.98	39.61	39.36	39.04	46.45	46.30	45.87	26.62	26.71	26.74
1900	45.20	44.22	43.26	39.36	39.05	38.74	46.05	45.84	45.41	26.12	26.20	26.29
2000	43.96	43.24	42.37	38.63	38.37	38.08	45.12	45.04	44.59	25.82	25.88	25.93
2100	44.17	43.14	42.27	38.35	38.08	37.74	44.18	43.96	43.56	25.39	25.44	25.47
2200	43.16	42.23	41.24	38.16	37.81	37.39	44.29	44.11	43.83	24.93	25.00	25.08
2300	42.28	41.73	40.70	37.15	37.02	36.64	43.14	42.90	42.76	24.98	24.96	24.95
2400	42.31	41.33	40.54	37.20	36.85	36.49	42.50	42.23	42.00	24.31	24.34	24.35
2500	41.65	40.93	40.10	36.82	36.50	36.15	42.13	42.25	41.75	23.99	24.05	24.11
2600	40.77	40.15	39.53	35.99	35.71	35.51	41.50	41.49	41.02	23.77	23.78	23.78
2700	40.57	40.00	39.29	35.88	35.64	35.31	41.10	41.16	40.87	23.12	23.16	23.22
2800	39.88	39.32	38.70	35.27	35.04	34.75	41.02	41.06	40.95	22.98	23.02	23.11

Typical Performance Data

RF FREQ (MHz)	VSWR (:1) @ VDD=+3V OVER TEMPERTURE (ON STATE)											
	RF COM						RF1			RF3		
	(RF1 ON)			(RF3 ON)			(RF1 ON)			(RF3 ON)		
	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C
10	1.06	1.06	1.08	1.05	1.06	1.07	1.06	1.07	1.08	1.05	1.06	1.08
20	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08
30	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08
40	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08
50	1.05	1.06	1.09	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08
60	1.05	1.07	1.09	1.05	1.07	1.08	1.05	1.06	1.08	1.05	1.06	1.08
70	1.05	1.07	1.09	1.05	1.07	1.08	1.05	1.06	1.08	1.05	1.06	1.08
80	1.05	1.07	1.08	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08
90	1.05	1.07	1.09	1.05	1.07	1.08	1.05	1.06	1.08	1.05	1.06	1.08
100	1.05	1.07	1.09	1.05	1.07	1.08	1.04	1.06	1.08	1.05	1.06	1.08
200	1.05	1.07	1.08	1.05	1.07	1.08	1.05	1.07	1.09	1.05	1.07	1.09
300	1.06	1.08	1.10	1.07	1.08	1.10	1.06	1.08	1.10	1.08	1.09	1.11
400	1.08	1.10	1.12	1.08	1.09	1.11	1.05	1.07	1.09	1.08	1.09	1.11
500	1.08	1.09	1.11	1.07	1.08	1.10	1.07	1.08	1.10	1.09	1.11	1.13
600	1.10	1.12	1.14	1.09	1.11	1.13	1.08	1.10	1.12	1.10	1.12	1.15
700	1.11	1.13	1.14	1.10	1.11	1.13	1.06	1.08	1.09	1.09	1.11	1.12
800	1.09	1.10	1.12	1.07	1.09	1.10	1.07	1.09	1.10	1.10	1.11	1.13
900	1.10	1.12	1.14	1.10	1.11	1.12	1.08	1.09	1.11	1.10	1.12	1.14
1000	1.10	1.12	1.14	1.08	1.10	1.11	1.05	1.06	1.07	1.08	1.09	1.10
1100	1.08	1.09	1.10	1.05	1.05	1.06	1.06	1.06	1.07	1.09	1.10	1.12
1200	1.11	1.12	1.13	1.09	1.09	1.09	1.07	1.07	1.07	1.08	1.09	1.11
1300	1.12	1.13	1.15	1.08	1.10	1.12	1.04	1.03	1.03	1.03	1.04	1.06
1400	1.06	1.08	1.11	1.03	1.05	1.08	1.02	1.04	1.07	1.05	1.08	1.10
1500	1.09	1.10	1.11	1.05	1.07	1.08	1.03	1.03	1.04	1.03	1.05	1.08
1600	1.14	1.15	1.17	1.11	1.13	1.16	1.05	1.03	1.03	1.04	1.06	1.08
1700	1.10	1.12	1.14	1.11	1.13	1.15	1.07	1.08	1.11	1.10	1.12	1.13
1800	1.08	1.10	1.10	1.08	1.10	1.10	1.04	1.05	1.06	1.08	1.09	1.10
1900	1.17	1.17	1.18	1.18	1.19	1.19	1.10	1.09	1.08	1.13	1.13	1.12
2000	1.17	1.18	1.17	1.20	1.21	1.19	1.15	1.15	1.14	1.19	1.19	1.17
2100	1.09	1.10	1.09	1.13	1.13	1.11	1.10	1.10	1.09	1.15	1.14	1.12
2200	1.16	1.16	1.15	1.20	1.19	1.18	1.12	1.11	1.08	1.17	1.15	1.12
2300	1.17	1.16	1.14	1.22	1.20	1.17	1.17	1.16	1.13	1.22	1.20	1.15
2400	1.07	1.06	1.03	1.11	1.09	1.06	1.12	1.12	1.11	1.13	1.12	1.09
2500	1.07	1.06	1.07	1.11	1.10	1.10	1.08	1.07	1.06	1.08	1.06	1.04
2600	1.09	1.07	1.05	1.10	1.09	1.07	1.13	1.12	1.11	1.12	1.10	1.09
2700	1.09	1.08	1.08	1.05	1.05	1.06	1.13	1.14	1.15	1.07	1.09	1.12
2800	1.09	1.11	1.13	1.11	1.13	1.14	1.09	1.11	1.13	1.08	1.10	1.11

RF FREQ (MHz)	VSWR (:1) @ VDD=+3V OVER TEMPERTURE (OFF STATE)					
	RF1			RF3		
	(RF2 ON)			(RF1 ON)		
	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C
10	4.31	3.37	2.67	4.35	3.40	2.68
20	4.27	3.35	2.66	4.31	3.37	2.67
30	4.27	3.35	2.66	4.31	3.37	2.67
40	4.27	3.35	2.66	4.30	3.37	2.67
50	4.26	3.35	2.66	4.30	3.37	2.67
60	4.26	3.35	2.66	4.29	3.37	2.67
70	4.25	3.34	2.66	4.28	3.37	2.67
80	4.25	3.34	2.66	4.28	3.36	2.67
90	4.24	3.34	2.66	4.27	3.36	2.67
100	4.24	3.34	2.67	4.27	3.35	2.68
200	4.22	3.33	2.66	4.24	3.33	2.66
300	4.23	3.31	2.63	4.23	3.31	2.62
400	4.23	3.31	2.63	4.19	3.28	2.59
500	4.22	3.30	2.61	4.15	3.24	2.57
600	4.20	3.27	2.58	4.14	3.22	2.54
700	4.21	3.26	2.56	4.13	3.20	2.50
800	4.19	3.25	2.56	4.09	3.17	2.49
900	4.16	3.22	2.53	4.09	3.15	2.46
1000	4.19	3.22	2.51	4.07	3.13	2.43
1100	4.18	3.21	2.53	4.04	3.11	2.44
1200	4.17	3.21	2.53	4.07	3.11	2.45
1300	4.17	3.20	2.51	4.05	3.11	2.44
1400	4.17	3.20	2.52	4.07	3.13	2.47
1500	4.19	3.22	2.56	4.10	3.16	2.50
1600	4.19	3.22	2.55	4.10	3.18	2.53
1700	4.22	3.24	2.56	4.15	3.22	2.59
1800	4.24	3.29	2.62	4.22	3.27	2.61
1900	4.27	3.30	2.62	4.33	3.33	2.67
2000	4.34	3.34	2.65	4.36	3.38	2.70
2100	4.40	3.41	2.71	4.50	3.47	2.74
2200	4.42	3.42	2.70	4.60	3.52	2.80
2300	4.51	3.45	2.74	4.62	3.58	2.83
2400	4.54	3.50	2.76	4.86	3.70	2.89
2500	4.53	3.48	2.74	4.89	3.70	2.85
2600	4.62	3.51	2.76	4.89	3.71	2.89
2700	4.67	3.56	2.76	5.02	3.76	2.89
2800	4.63	3.52	2.73	4.98	3.72	2.85

Typical Performance Data

RF FREQ (MHz)	INSERTION LOSS (dB) @ VDD=+2.5V OVER TEMPERTURE					
	RF COM-RF1			RF COM-RF3		
	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C
10	0.33	0.40	0.49	0.33	0.41	0.49
20	0.34	0.42	0.50	0.34	0.42	0.49
30	0.34	0.42	0.50	0.34	0.42	0.50
40	0.35	0.42	0.50	0.34	0.42	0.50
50	0.35	0.42	0.50	0.35	0.42	0.50
60	0.35	0.42	0.50	0.35	0.42	0.50
70	0.35	0.42	0.50	0.35	0.42	0.50
80	0.35	0.42	0.50	0.35	0.42	0.50
90	0.36	0.43	0.51	0.35	0.42	0.50
100	0.36	0.43	0.51	0.35	0.42	0.50
200	0.35	0.43	0.51	0.35	0.43	0.51
300	0.35	0.43	0.53	0.35	0.43	0.53
400	0.34	0.43	0.54	0.35	0.44	0.54
500	0.33	0.43	0.54	0.34	0.44	0.54
600	0.33	0.44	0.56	0.33	0.44	0.56
700	0.32	0.44	0.57	0.32	0.44	0.57
800	0.31	0.43	0.56	0.31	0.43	0.57
900	0.30	0.43	0.58	0.31	0.44	0.58
1000	0.29	0.43	0.58	0.30	0.43	0.58
1100	0.28	0.42	0.57	0.28	0.43	0.58
1200	0.28	0.42	0.58	0.28	0.43	0.58
1300	0.27	0.42	0.59	0.27	0.42	0.59
1400	0.25	0.41	0.58	0.25	0.41	0.58
1500	0.25	0.41	0.58	0.24	0.41	0.58
1600	0.25	0.42	0.60	0.24	0.41	0.59
1700	0.23	0.40	0.59	0.23	0.41	0.59
1800	0.22	0.40	0.58	0.22	0.40	0.58
1900	0.22	0.40	0.60	0.22	0.41	0.59
2000	0.21	0.40	0.59	0.22	0.40	0.59
2100	0.19	0.37	0.57	0.19	0.37	0.57
2200	0.19	0.38	0.59	0.19	0.38	0.58
2300	0.18	0.37	0.58	0.19	0.38	0.57
2400	0.16	0.35	0.56	0.15	0.34	0.55
2500	0.15	0.35	0.57	0.13	0.34	0.55
2600	0.14	0.34	0.57	0.13	0.33	0.55
2700	0.13	0.34	0.58	0.11	0.32	0.55
2800	0.14	0.36	0.61	0.12	0.34	0.58

RF FREQ (MHz)	ISOLATION (dB) @ VDD=+2.5V OVER TEMPERTURE											
	RF COM-RF1 (RF2 ON)			RF COM-RF3 (RF2 ON)			RF1-RF2 (RF1 ON)			RF1-RF3 (RF1 ON)		
	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C
10	56.13	57.61	54.61	55.55	60.24	59.44	59.68	57.30	58.03	58.20	62.99	57.85
20	81.02	80.10	80.84	75.58	75.40	77.38	83.38	79.80	81.46	65.74	65.22	64.98
30	81.80	82.27	82.78	77.72	75.29	77.80	84.94	86.99	102.27	62.12	61.95	61.34
40	80.27	78.08	76.71	74.32	73.66	72.31	89.58	79.47	82.76	59.12	58.97	58.41
50	60.16	63.00	59.86	60.39	59.22	65.55	61.14	62.29	62.47	54.01	54.25	57.90
60	67.18	74.59	65.32	63.53	63.49	69.85	67.89	70.49	70.42	55.55	55.82	57.60
70	73.57	74.76	71.60	68.21	67.25	67.72	81.62	83.18	79.90	54.67	54.47	54.52
80	74.20	72.32	70.60	67.91	66.87	66.68	85.92	76.58	76.06	53.50	53.23	53.10
90	72.64	70.14	70.42	67.80	66.04	64.64	84.55	74.85	73.58	52.50	52.43	52.13
100	73.03	69.12	70.20	65.86	65.31	63.78	80.33	74.73	72.66	51.77	51.57	51.34
200	65.17	64.53	62.73	59.14	58.56	58.12	72.90	69.00	67.11	45.54	45.44	45.30
300	61.61	60.31	59.08	55.50	54.96	54.80	68.84	65.81	63.01	42.15	41.98	41.86
400	59.00	57.95	56.56	52.85	52.41	51.98	65.06	62.60	60.99	39.59	39.48	39.39
500	56.80	55.98	54.53	50.84	50.50	49.95	63.45	60.76	59.12	37.55	37.44	37.39
600	55.21	54.10	53.07	49.16	48.82	48.39	61.00	58.92	57.09	36.03	35.93	35.85
700	54.02	52.92	51.93	47.70	47.43	47.02	59.66	57.79	56.07	34.58	34.53	34.45
800	52.68	51.83	50.62	46.47	46.26	45.80	58.16	56.65	55.11	33.30	33.28	33.26
900	51.63	50.63	49.64	45.43	45.14	44.81	56.57	55.22	53.81	32.35	32.30	32.29
1000	50.66	49.80	48.65	44.33	44.08	43.84	55.11	53.76	52.49	31.45	31.41	31.37
1100	50.19	49.19	48.09	43.54	43.30	43.03	54.14	52.96	51.61	30.45	30.46	30.49
1200	49.19	48.18	47.21	42.80	42.57	42.31	53.06	52.31	51.27	29.61	29.64	29.72
1300	48.45	47.68	46.57	42.09	41.85	41.59	51.86	50.96	50.30	29.06	29.10	29.14
1400	47.90	46.87	45.90	41.45	41.32	40.98	50.57	50.09	49.20	28.38	28.43	28.52
1500	46.94	46.07	45.22	40.81	40.65	40.40	49.42	48.87	48.17	27.88	27.93	28.00
1600	46.83	45.93	44.80	40.39	40.22	39.98	48.62	48.03	47.35	27.33	27.40	27.49
1700	45.93	44.93	44.19	39.97	39.74	39.52	48.12	47.70	47.04	26.79	26.89	27.06
1800	45.97	44.96	43.96	39.64	39.37	39.06	46.41	46.35	45.87	26.64	26.71	26.73
1900	45.22	44.23	43.30	39.34	39.07	38.74	46.05	45.77	45.35	26.15	26.20	26.28
2000	44.03	43.18	42.37	38.63	38.36	38.09	45.14	45.00	44.57	25.84	25.89	25.93
2100	44.19	43.16	42.25	38.35	38.06	37.72	44.21	43.92	43.57	25.41	25.44	25.46
2200	43.15	42.15	41.22	38.18	37.83	37.40	44.28	44.07	43.81	24.96	25.01	25.07
2300	42.29	41.71	40.71	37.15	37.00	36.63	43.16	42.87	42.75	25.00	24.96	24.93
2400	42.28	41.31	40.53	37.17	36.85	36.47	42.53	42.21	42.01	24.34	24.34	24.33
2500	41.67	40.93	40.10	36.82	36.50	36.14	42.19	42.27	41.72	24.02	24.05	24.09
2600	40.74	40.14	39.50	36.00	35.73	35.48	41.54	41.43	40.96	23.79	23.78	23.77
2700	40.59	39.99	39.29	35.90	35.63	35.32	41.13	41.15	40.82	23.14	23.17	23.21
2800	39.88	39.34	38.69	35.27	35.05	34.75	41.04	41.08	40.95	23.01	23.03	23.10

Typical Performance Data

RF FREQ (MHz)	VSWR (:1) @ VDD=+2.5V OVER TEMPERTURE (ON STATE)											
	RF COM						RF1			RF3		
	(RF1 ON)			(RF3 ON)			(RF1 ON)			(RF3 ON)		
	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C
10	1.06	1.07	1.08	1.05	1.06	1.08	1.06	1.07	1.08	1.05	1.06	1.08
20	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08
30	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08
40	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08
50	1.05	1.07	1.09	1.05	1.06	1.09	1.05	1.06	1.08	1.05	1.06	1.08
60	1.05	1.07	1.09	1.05	1.07	1.09	1.05	1.06	1.08	1.05	1.06	1.08
70	1.05	1.07	1.09	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08
80	1.05	1.07	1.08	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08
90	1.05	1.07	1.09	1.05	1.07	1.08	1.05	1.06	1.08	1.05	1.06	1.08
100	1.05	1.07	1.09	1.05	1.07	1.08	1.04	1.06	1.08	1.05	1.06	1.08
200	1.05	1.07	1.08	1.05	1.07	1.08	1.05	1.07	1.09	1.05	1.07	1.09
300	1.06	1.08	1.10	1.07	1.08	1.10	1.06	1.08	1.10	1.08	1.09	1.11
400	1.08	1.10	1.12	1.08	1.09	1.11	1.05	1.07	1.09	1.08	1.09	1.11
500	1.08	1.09	1.11	1.07	1.08	1.10	1.07	1.08	1.10	1.09	1.11	1.13
600	1.10	1.12	1.14	1.09	1.11	1.13	1.08	1.09	1.12	1.10	1.12	1.15
700	1.11	1.13	1.14	1.10	1.11	1.13	1.06	1.08	1.09	1.09	1.10	1.12
800	1.09	1.10	1.12	1.07	1.09	1.10	1.07	1.08	1.09	1.10	1.11	1.13
900	1.10	1.12	1.14	1.10	1.11	1.12	1.08	1.09	1.11	1.10	1.12	1.14
1000	1.10	1.12	1.14	1.08	1.10	1.11	1.05	1.06	1.07	1.08	1.09	1.10
1100	1.08	1.09	1.10	1.05	1.06	1.06	1.06	1.06	1.07	1.09	1.10	1.12
1200	1.11	1.12	1.13	1.09	1.09	1.09	1.07	1.07	1.08	1.08	1.09	1.11
1300	1.12	1.13	1.15	1.08	1.10	1.12	1.04	1.03	1.03	1.03	1.04	1.06
1400	1.06	1.08	1.11	1.03	1.05	1.08	1.02	1.04	1.06	1.05	1.08	1.10
1500	1.09	1.10	1.11	1.05	1.06	1.08	1.02	1.03	1.04	1.03	1.06	1.08
1600	1.14	1.15	1.17	1.11	1.13	1.16	1.05	1.04	1.04	1.04	1.06	1.08
1700	1.10	1.12	1.14	1.11	1.13	1.15	1.07	1.08	1.10	1.11	1.12	1.13
1800	1.08	1.10	1.10	1.08	1.10	1.10	1.04	1.05	1.06	1.08	1.09	1.10
1900	1.17	1.17	1.18	1.18	1.19	1.19	1.10	1.09	1.08	1.14	1.14	1.12
2000	1.17	1.18	1.17	1.20	1.21	1.19	1.15	1.15	1.14	1.19	1.19	1.17
2100	1.09	1.10	1.09	1.13	1.13	1.11	1.10	1.10	1.09	1.16	1.14	1.12
2200	1.16	1.16	1.15	1.20	1.19	1.18	1.12	1.10	1.09	1.17	1.14	1.12
2300	1.17	1.16	1.14	1.22	1.20	1.17	1.17	1.15	1.13	1.22	1.20	1.15
2400	1.07	1.05	1.03	1.11	1.09	1.06	1.12	1.12	1.11	1.14	1.12	1.10
2500	1.07	1.06	1.07	1.11	1.10	1.10	1.08	1.07	1.06	1.08	1.06	1.04
2600	1.09	1.07	1.05	1.10	1.09	1.07	1.13	1.12	1.10	1.12	1.11	1.09
2700	1.09	1.08	1.08	1.04	1.05	1.06	1.13	1.15	1.16	1.07	1.10	1.12
2800	1.09	1.11	1.13	1.11	1.13	1.14	1.10	1.11	1.13	1.08	1.10	1.11

RF FREQ (MHz)	VSWR (:1) @ VDD=+2.5V OVER TEMPERTURE (OFF STATE)					
	RF1			RF3		
	(RF2 ON)			(RF1 ON)		
	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C
10	4.30	3.37	2.67	4.35	3.40	2.68
20	4.27	3.35	2.66	4.30	3.37	2.66
30	4.27	3.35	2.66	4.31	3.37	2.67
40	4.27	3.35	2.66	4.30	3.37	2.67
50	4.26	3.35	2.66	4.29	3.37	2.67
60	4.25	3.35	2.66	4.29	3.37	2.67
70	4.25	3.34	2.66	4.28	3.37	2.67
80	4.25	3.34	2.66	4.28	3.36	2.67
90	4.24	3.34	2.66	4.27	3.35	2.67
100	4.24	3.34	2.67	4.27	3.35	2.67
200	4.22	3.33	2.66	4.24	3.33	2.66
300	4.23	3.31	2.63	4.23	3.31	2.62
400	4.23	3.31	2.62	4.19	3.27	2.59
500	4.21	3.30	2.62	4.15	3.24	2.57
600	4.20	3.27	2.58	4.13	3.22	2.53
700	4.21	3.26	2.55	4.13	3.20	2.50
800	4.19	3.25	2.56	4.09	3.16	2.49
900	4.16	3.21	2.53	4.09	3.15	2.46
1000	4.18	3.22	2.50	4.07	3.13	2.43
1100	4.17	3.22	2.53	4.03	3.11	2.43
1200	4.17	3.20	2.53	4.07	3.12	2.44
1300	4.16	3.20	2.50	4.04	3.11	2.44
1400	4.16	3.20	2.53	4.08	3.14	2.47
1500	4.18	3.22	2.56	4.09	3.15	2.50
1600	4.19	3.22	2.54	4.11	3.18	2.53
1700	4.21	3.23	2.57	4.15	3.22	2.58
1800	4.24	3.29	2.61	4.23	3.28	2.60
1900	4.28	3.29	2.62	4.33	3.34	2.66
2000	4.33	3.34	2.67	4.35	3.38	2.69
2100	4.39	3.42	2.69	4.50	3.46	2.74
2200	4.43	3.40	2.70	4.59	3.52	2.80
2300	4.48	3.47	2.75	4.63	3.60	2.84
2400	4.54	3.49	2.75	4.86	3.70	2.88
2500	4.53	3.47	2.74	4.91	3.70	2.85
2600	4.60	3.52	2.77	4.88	3.69	2.89
2700	4.68	3.54	2.76	5.02	3.75	2.89
2800	4.63	3.54	2.72	4.98	3.72	2.86

Typical Performance Data

RF FREQ (MHz)	INSERTION LOSS (dB) @ VDD=+4.8V OVER TEMPERTURE					
	RF COM-RF1			RF COM-RF3		
	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C
10	0.33	0.41	0.49	0.33	0.41	0.49
20	0.34	0.42	0.50	0.34	0.41	0.49
30	0.34	0.42	0.50	0.34	0.41	0.49
40	0.35	0.42	0.50	0.34	0.42	0.50
50	0.35	0.42	0.50	0.35	0.42	0.50
60	0.35	0.42	0.50	0.35	0.42	0.50
70	0.35	0.42	0.50	0.35	0.42	0.50
80	0.35	0.42	0.50	0.35	0.42	0.50
90	0.36	0.43	0.50	0.35	0.42	0.50
100	0.36	0.43	0.51	0.35	0.42	0.50
200	0.35	0.43	0.51	0.35	0.43	0.51
300	0.35	0.43	0.53	0.35	0.43	0.53
400	0.34	0.44	0.54	0.35	0.44	0.54
500	0.33	0.43	0.54	0.34	0.44	0.54
600	0.33	0.44	0.56	0.33	0.44	0.56
700	0.32	0.44	0.57	0.32	0.44	0.57
800	0.31	0.43	0.56	0.31	0.44	0.57
900	0.30	0.44	0.57	0.31	0.44	0.58
1000	0.29	0.43	0.58	0.30	0.43	0.58
1100	0.28	0.42	0.57	0.28	0.43	0.57
1200	0.28	0.43	0.58	0.28	0.43	0.58
1300	0.27	0.43	0.59	0.27	0.42	0.58
1400	0.25	0.41	0.58	0.25	0.41	0.58
1500	0.25	0.41	0.58	0.24	0.41	0.58
1600	0.25	0.42	0.60	0.24	0.41	0.59
1700	0.23	0.41	0.59	0.23	0.41	0.58
1800	0.22	0.40	0.58	0.22	0.40	0.58
1900	0.23	0.41	0.60	0.22	0.41	0.59
2000	0.21	0.40	0.59	0.22	0.40	0.59
2100	0.19	0.38	0.57	0.19	0.38	0.56
2200	0.19	0.38	0.58	0.19	0.38	0.58
2300	0.18	0.38	0.58	0.19	0.38	0.57
2400	0.16	0.35	0.56	0.15	0.34	0.55
2500	0.15	0.36	0.57	0.14	0.34	0.55
2600	0.14	0.35	0.57	0.13	0.33	0.55
2700	0.13	0.35	0.58	0.11	0.32	0.55
2800	0.14	0.36	0.61	0.12	0.34	0.58

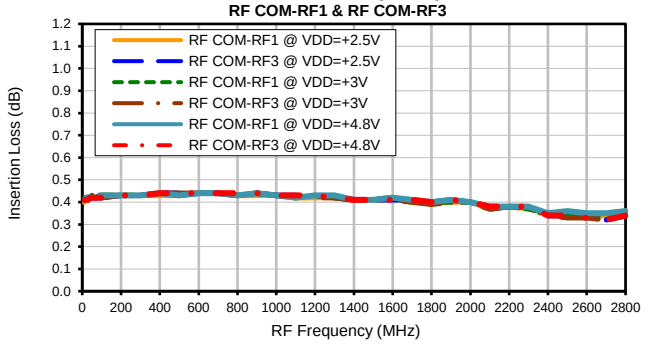
RF FREQ (MHz)	ISOLATION (dB) @ VDD=+4.8V OVER TEMPERTURE											
	RF COM-RF1 (RF2 ON)			RF COM-RF3 (RF2 ON)			RF1-RF2 (RF1 ON)			RF1-RF3 (RF1 ON)		
	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C
10	59.38	62.30	56.45	62.62	60.67	55.18	59.03	59.29	60.49	56.35	57.12	58.10
20	76.70	74.87	79.21	76.23	75.58	77.42	81.67	75.45	75.54	65.35	64.81	64.41
30	83.82	82.69	85.31	81.13	77.17	74.95	81.92	87.69	88.74	62.29	61.48	61.27
40	81.43	82.00	76.66	73.08	71.81	72.26	86.56	83.98	84.89	59.39	59.44	59.15
50	59.90	62.71	62.82	62.43	60.31	58.98	62.29	61.07	61.75	53.94	53.80	64.81
60	67.21	68.23	69.41	78.16	68.88	63.31	70.88	66.49	67.51	55.56	55.39	57.26
70	74.25	73.78	72.46	68.95	67.92	66.95	85.70	79.29	75.69	54.58	54.26	54.41
80	73.67	72.65	72.26	67.06	66.27	66.12	80.44	81.20	76.38	53.46	53.28	53.12
90	73.08	71.48	69.75	65.56	65.06	65.66	76.62	79.79	74.52	52.66	52.37	51.99
100	72.77	70.08	68.22	65.27	64.88	64.79	78.60	76.53	72.59	51.77	51.57	51.29
200	65.29	64.22	63.06	58.76	58.33	58.05	72.08	70.05	67.34	45.57	45.44	45.31
300	61.70	60.07	59.25	55.48	54.90	54.31	67.94	66.43	63.38	42.13	42.03	41.78
400	58.84	57.92	56.70	52.78	52.49	52.00	65.52	62.75	60.94	39.59	39.48	39.38
500	56.78	55.78	54.71	50.77	50.39	50.04	63.11	61.13	58.98	37.54	37.47	37.38
600	55.33	54.20	53.11	49.20	48.80	48.43	60.84	58.93	57.15	36.02	35.94	35.81
700	53.98	53.01	51.93	47.70	47.33	46.99	59.57	57.74	56.14	34.57	34.52	34.44
800	52.66	51.65	50.68	46.52	46.17	45.83	58.18	56.62	55.06	33.30	33.29	33.24
900	51.68	50.72	49.67	45.48	45.15	44.82	56.61	55.11	53.70	32.33	32.30	32.26
1000	50.63	49.67	48.73	44.32	44.09	43.81	55.05	53.76	52.39	31.43	31.41	31.35
1100	50.21	49.09	48.16	43.53	43.32	43.01	54.07	52.87	51.65	30.43	30.47	30.47
1200	49.23	48.21	47.22	42.80	42.58	42.30	53.06	52.21	51.16	29.59	29.65	29.70
1300	48.48	47.58	46.50	42.05	41.87	41.59	51.70	51.12	50.25	29.05	29.10	29.12
1400	47.91	46.91	45.90	41.47	41.28	41.01	50.54	50.00	49.16	28.37	28.44	28.50
1500	46.91	46.09	45.21	40.84	40.64	40.41	49.38	48.92	48.12	27.85	27.92	27.98
1600	46.83	45.89	44.80	40.39	40.22	39.99	48.60	48.03	47.36	27.31	27.41	27.48
1700	45.95	45.11	44.21	40.01	39.77	39.52	48.07	47.69	47.04	26.77	26.89	27.05
1800	45.98	44.99	43.98	39.63	39.38	39.04	46.40	46.26	45.79	26.63	26.71	26.71
1900	45.27	44.17	43.29	39.34	39.04	38.74	46.00	45.78	45.33	26.13	26.20	26.25
2000	43.97	43.30	42.39	38.64	38.40	38.09	45.27	44.96	44.50	25.82	25.90	25.91
2100	44.18	43.17	42.28	38.37	38.07	37.69	44.23	43.98	43.53	25.40	25.45	25.44
2200	43.17	42.27	41.26	38.20	37.79	37.38	44.31	44.10	43.80	24.94	25.00	25.05
2300	42.30	41.52	40.72	37.19	36.94	36.64	43.11	42.97	42.72	25.00	24.99	24.93
2400	42.33	41.46	40.57	37.18	36.93	36.49	42.50	42.20	41.94	24.32	24.35	24.32
2500	41.62	40.82	40.11	36.82	36.47	36.15	42.13	42.03	41.70	24.01	24.03	24.07
2600	40.77	40.16	39.55	35.99	35.77	35.50	41.55	41.45	41.03	23.78	23.81	23.76
2700	40.55	39.85	39.33	35.90	35.61	35.30	41.14	41.07	40.81	23.14	23.19	23.20
2800	39.85	39.22	38.67	35.27	35.04	34.76	41.06	41.10	40.92	22.99	23.04	23.07

Typical Performance Data

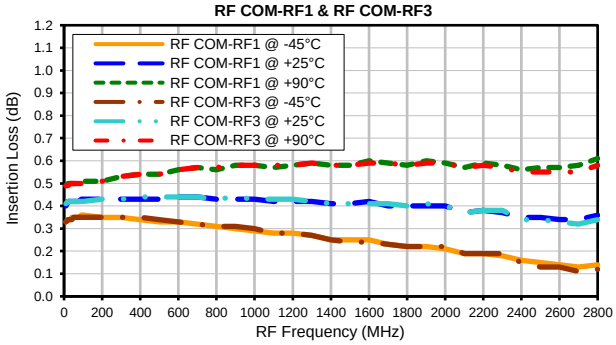
RF FREQ (MHz)	VSWR (:1) @ VDD=+4.8 OVER TEMPERTURE (ON STATE)												RF FREQ (MHz)	VSWR (:1) @ VDD=+4.8V OVER TEMPERTURE (OFF STATE)					
	RF COM						RF1			RF3				RF1			RF3		
	(RF1 ON)			(RF3 ON)			(RF1 ON)			(RF3 ON)				(RF2 ON)			(RF1 ON)		
	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C	-45°C	+25°C	+90°C		-45°C	+25°C	+90°C	-45°C	+25°C	+90°C
10	1.06	1.07	1.08	1.05	1.07	1.08	1.06	1.07	1.08	1.05	1.06	1.08	10	4.31	3.36	2.67	4.36	3.38	2.69
20	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08	20	4.27	3.34	2.66	4.31	3.36	2.67
30	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08	30	4.27	3.34	2.66	4.31	3.36	2.67
40	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08	40	4.27	3.34	2.66	4.31	3.36	2.67
50	1.05	1.07	1.08	1.05	1.07	1.08	1.05	1.06	1.08	1.05	1.06	1.08	50	4.26	3.34	2.66	4.30	3.35	2.67
60	1.05	1.07	1.09	1.05	1.07	1.09	1.05	1.06	1.08	1.05	1.06	1.08	60	4.26	3.34	2.66	4.29	3.35	2.67
70	1.05	1.07	1.09	1.05	1.07	1.08	1.05	1.06	1.08	1.05	1.06	1.08	70	4.25	3.33	2.66	4.29	3.35	2.67
80	1.05	1.07	1.08	1.05	1.06	1.08	1.05	1.06	1.08	1.05	1.06	1.08	80	4.25	3.33	2.66	4.28	3.35	2.67
90	1.05	1.07	1.09	1.05	1.07	1.08	1.05	1.06	1.08	1.05	1.06	1.08	90	4.25	3.33	2.66	4.27	3.34	2.67
100	1.05	1.07	1.09	1.05	1.07	1.08	1.04	1.06	1.08	1.05	1.06	1.08	100	4.24	3.33	2.67	4.27	3.34	2.68
200	1.05	1.07	1.08	1.05	1.07	1.08	1.05	1.07	1.09	1.05	1.07	1.09	200	4.22	3.31	2.66	4.24	3.32	2.66
300	1.06	1.08	1.10	1.07	1.08	1.10	1.06	1.08	1.10	1.08	1.09	1.11	300	4.23	3.30	2.63	4.23	3.30	2.62
400	1.08	1.10	1.12	1.08	1.09	1.11	1.05	1.07	1.09	1.08	1.09	1.11	400	4.24	3.30	2.62	4.19	3.26	2.59
500	1.08	1.10	1.11	1.07	1.08	1.10	1.07	1.08	1.10	1.09	1.11	1.13	500	4.22	3.29	2.62	4.15	3.23	2.57
600	1.10	1.12	1.14	1.09	1.11	1.13	1.08	1.10	1.12	1.10	1.12	1.15	600	4.20	3.26	2.58	4.15	3.21	2.54
700	1.11	1.13	1.14	1.10	1.11	1.13	1.06	1.08	1.09	1.09	1.11	1.12	700	4.21	3.25	2.55	4.14	3.18	2.50
800	1.09	1.11	1.12	1.07	1.09	1.10	1.07	1.09	1.09	1.10	1.12	1.13	800	4.19	3.23	2.56	4.09	3.15	2.49
900	1.10	1.13	1.14	1.10	1.11	1.12	1.08	1.09	1.11	1.10	1.12	1.14	900	4.16	3.21	2.53	4.09	3.14	2.46
1000	1.10	1.12	1.14	1.08	1.10	1.11	1.05	1.06	1.07	1.08	1.09	1.10	1000	4.19	3.20	2.51	4.07	3.11	2.43
1100	1.08	1.09	1.10	1.05	1.05	1.06	1.06	1.06	1.07	1.09	1.10	1.12	1100	4.18	3.20	2.53	4.04	3.10	2.44
1200	1.11	1.12	1.13	1.09	1.09	1.09	1.07	1.07	1.08	1.08	1.09	1.11	1200	4.17	3.20	2.53	4.08	3.10	2.45
1300	1.12	1.13	1.15	1.08	1.10	1.12	1.04	1.03	1.03	1.03	1.04	1.06	1300	4.17	3.18	2.51	4.06	3.09	2.44
1400	1.06	1.08	1.11	1.03	1.05	1.08	1.02	1.04	1.06	1.05	1.08	1.10	1400	4.16	3.19	2.53	4.07	3.13	2.48
1500	1.09	1.10	1.11	1.05	1.06	1.08	1.03	1.03	1.04	1.03	1.06	1.08	1500	4.18	3.21	2.56	4.09	3.14	2.50
1600	1.14	1.15	1.17	1.11	1.13	1.16	1.05	1.03	1.04	1.04	1.06	1.08	1600	4.20	3.20	2.54	4.10	3.17	2.53
1700	1.10	1.13	1.14	1.11	1.13	1.15	1.07	1.09	1.10	1.10	1.12	1.13	1700	4.21	3.23	2.57	4.16	3.20	2.58
1800	1.08	1.10	1.10	1.08	1.10	1.10	1.04	1.05	1.06	1.08	1.09	1.10	1800	4.24	3.27	2.61	4.25	3.26	2.61
1900	1.17	1.17	1.18	1.18	1.19	1.19	1.10	1.09	1.08	1.14	1.13	1.12	1900	4.28	3.29	2.62	4.34	3.32	2.67
2000	1.17	1.18	1.17	1.20	1.21	1.19	1.15	1.15	1.14	1.20	1.19	1.17	2000	4.34	3.33	2.66	4.35	3.37	2.70
2100	1.09	1.09	1.09	1.13	1.13	1.11	1.10	1.10	1.09	1.15	1.14	1.13	2100	4.40	3.39	2.70	4.47	3.45	2.75
2200	1.16	1.16	1.15	1.20	1.19	1.18	1.12	1.11	1.08	1.17	1.15	1.12	2200	4.42	3.41	2.69	4.60	3.50	2.80
2300	1.17	1.16	1.14	1.22	1.20	1.17	1.17	1.16	1.14	1.21	1.20	1.15	2300	4.50	3.43	2.75	4.66	3.56	2.84
2400	1.07	1.05	1.03	1.11	1.08	1.06	1.12	1.11	1.11	1.13	1.12	1.10	2400	4.54	3.48	2.75	4.91	3.68	2.88
2500	1.07	1.06	1.07	1.11	1.10	1.10	1.08	1.07	1.06	1.09	1.06	1.04	2500	4.53	3.45	2.74	4.91	3.68	2.86
2600	1.09	1.07	1.05	1.10	1.09	1.07	1.13	1.12	1.10	1.12	1.10	1.09	2600	4.61	3.49	2.77	4.86	3.69	2.89
2700	1.09	1.08	1.08	1.04	1.05	1.06	1.13	1.14	1.15	1.08	1.10	1.12	2700	4.67	3.54	2.76	4.99	3.74	2.90
2800	1.09	1.11	1.13	1.11	1.13	1.14	1.09	1.12	1.13	1.08	1.10	1.11	2800	4.63	3.50	2.72	4.99	3.68	2.86

Typical Performance Curves

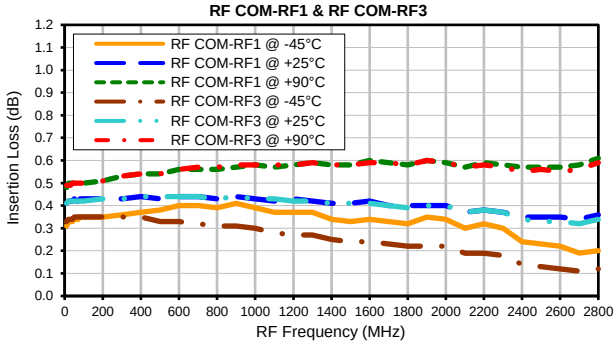
Insertion Loss vs. Frequency & VDD
RF COM-RF1 & RF COM-RF3



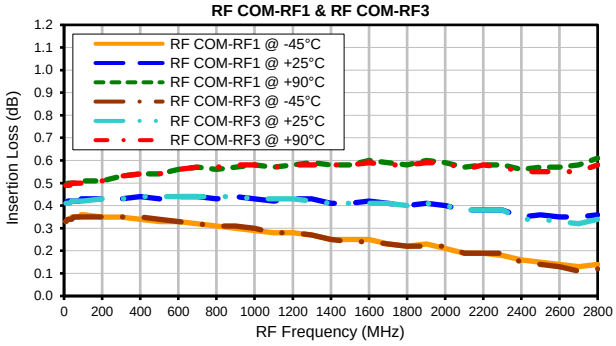
Insertion Loss vs. Frequency & Temperature @ VDD=+2.5V
RF COM-RF1 & RF COM-RF3



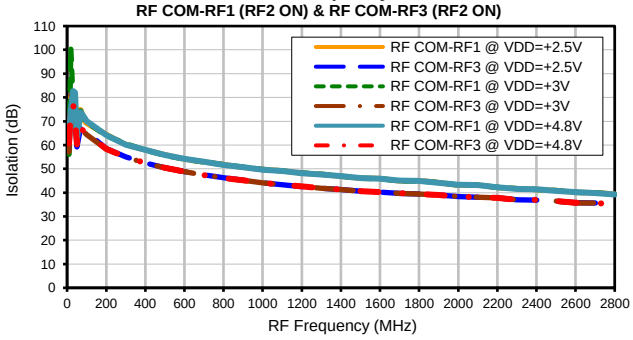
Insertion Loss vs. Frequency & Temperature @ VDD=+3V
RF COM-RF1 & RF COM-RF3



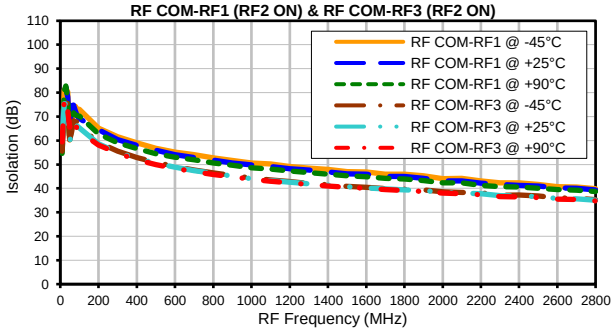
Insertion Loss vs. Frequency & Temperature @ VDD=+4.8V
RF COM-RF1 & RF COM-RF3



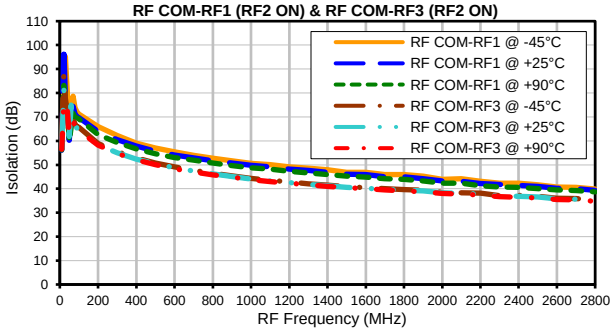
Isolation vs. Frequency & VDD
RF COM-RF1 (RF2 ON) & RF COM-RF3 (RF2 ON)



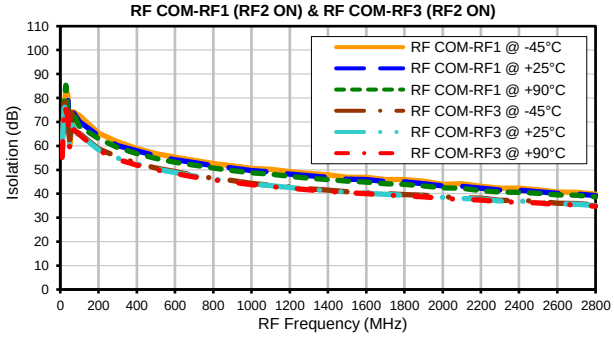
Isolation vs. Frequency & Temperature @ VDD=+2.5V
RF COM-RF1 (RF2 ON) & RF COM-RF3 (RF2 ON)



Isolation vs. Frequency & Temperature @ VDD=+3V
RF COM-RF1 (RF2 ON) & RF COM-RF3 (RF2 ON)

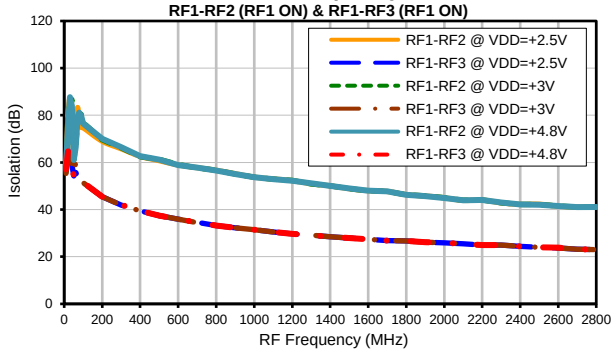


Isolation vs. Frequency & Temperature @ VDD=+4.8V
RF COM-RF1 (RF2 ON) & RF COM-RF3 (RF2 ON)

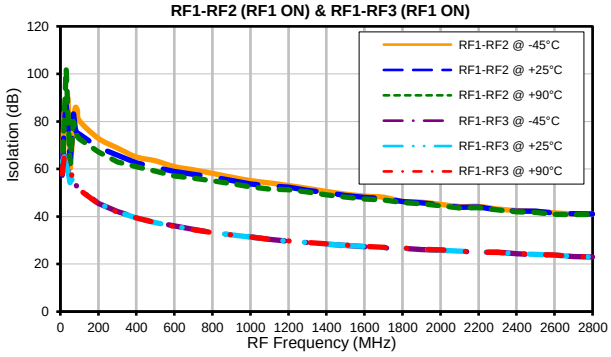


Typical Performance Curves

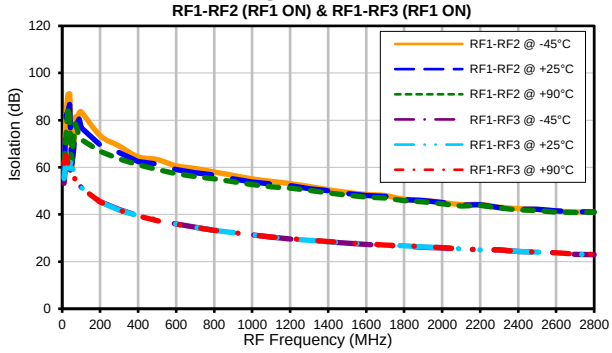
Isolation vs. Frequency & VDD
RF1-RF2 (RF1 ON) & RF1-RF3 (RF1 ON)



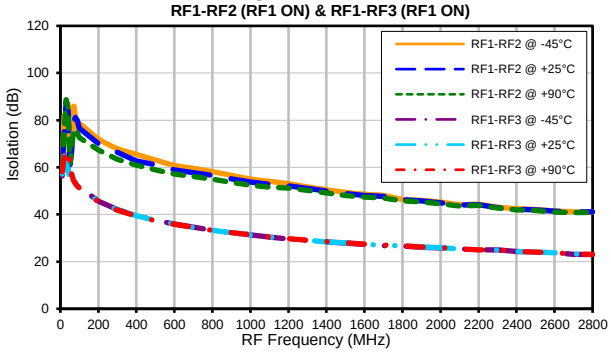
Isolation vs. Frequency & Temperature
@ VDD=+2.5V
RF1-RF2 (RF1 ON) & RF1-RF3 (RF1 ON)



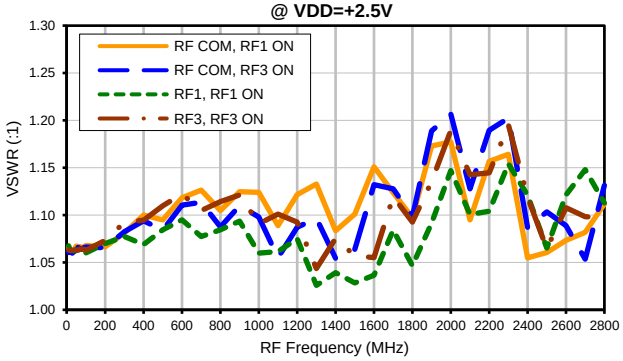
Isolation vs. Frequency & Temperature
@ VDD=+3V
RF1-RF2 (RF1 ON) & RF1-RF3 (RF1 ON)



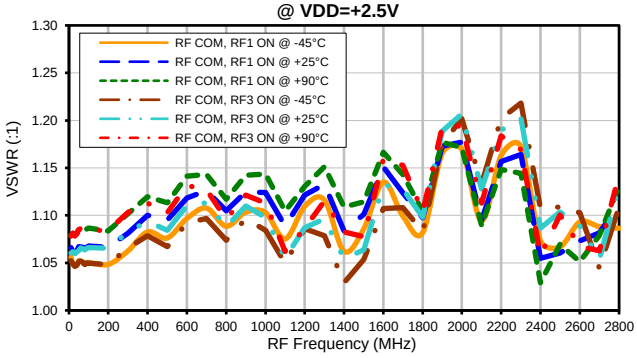
Isolation vs. Frequency & Temperature
@ VDD=+4.8V
RF1-RF2 (RF1 ON) & RF1-RF3 (RF1 ON)



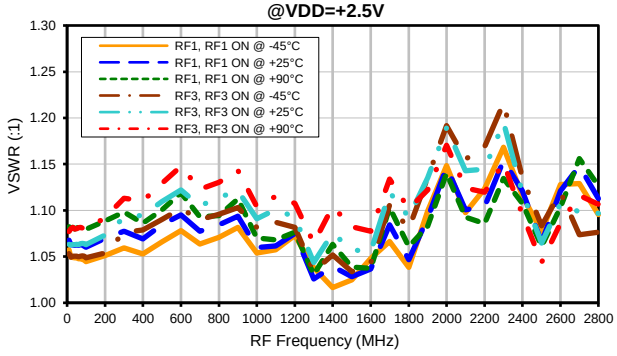
VSWR vs. Frequency; RF COM, RF1 & RF3 (ON)
@ VDD=+2.5V



VSWR vs. Frequency & Temperature; RF COM (ON)
@ VDD=+2.5V

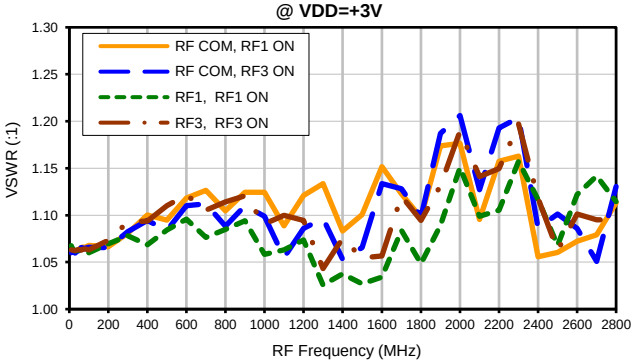


VSWR vs. Frequency & Temperature RF1 & RF3 (ON)
@VDD=+2.5V

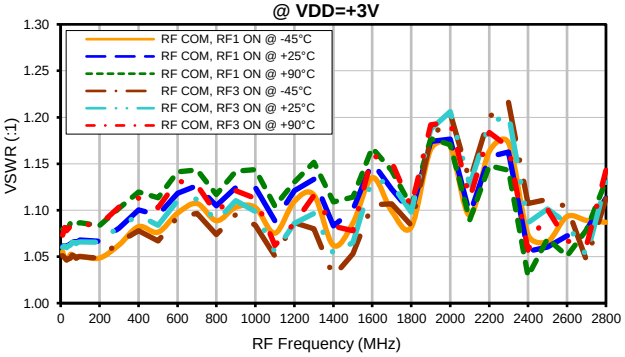


Typical Performance Curves

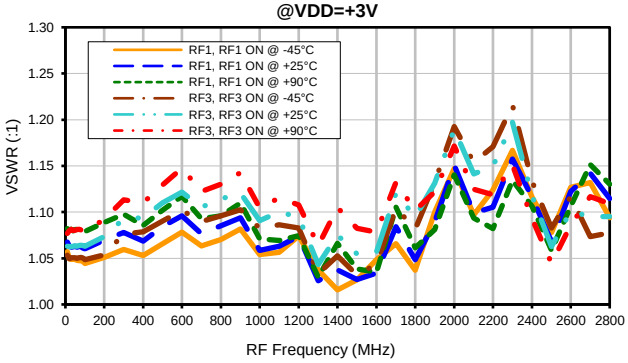
VSWR vs. Frequency; RF COM, RF1 & RF3 (ON)
@ VDD=+3V



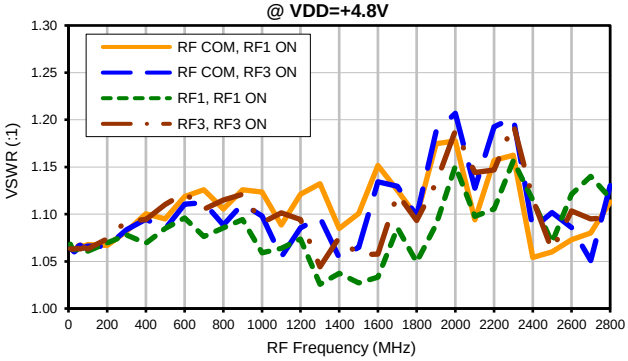
VSWR vs. Frequency & Temperature; RF COM (ON)
@ VDD=+3V



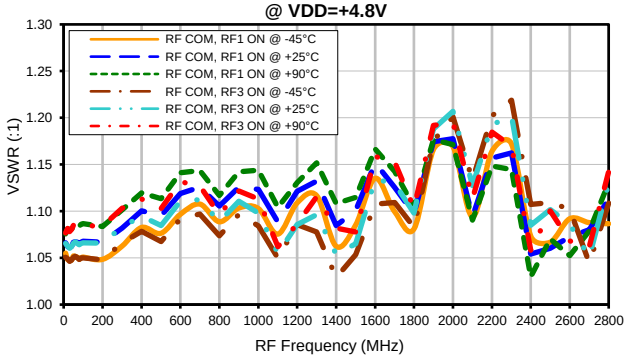
VSWR vs. Frequency & Temperature; RF1 & RF3 (ON)
@VDD=+3V



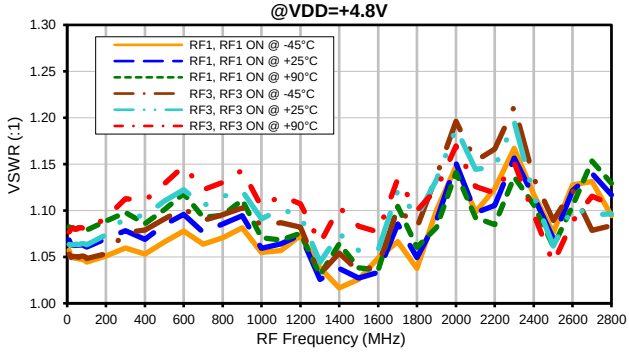
VSWR vs. Frequency; RF COM, RF1 & RF3 (ON)
@ VDD=+4.8V



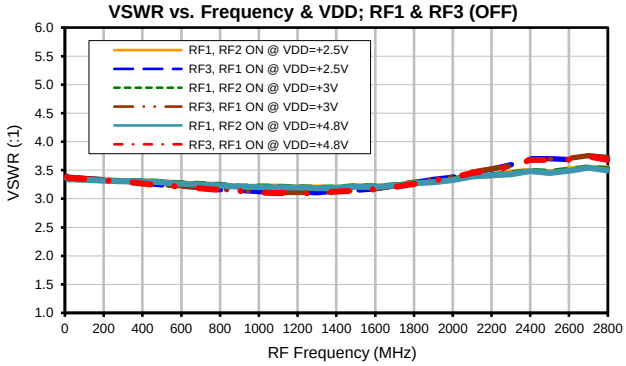
VSWR vs. Frequency & Temperature; RF COM (ON)
@ VDD=+4.8V



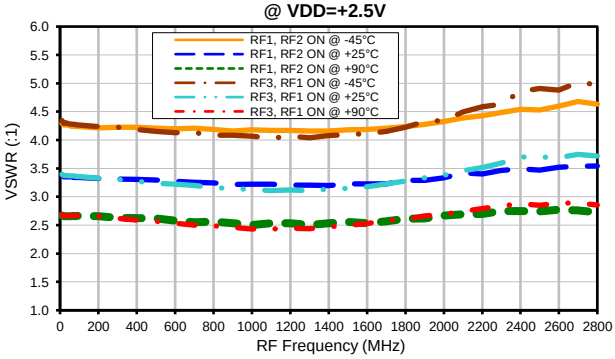
VSWR vs. Frequency & Temperature; RF1 & RF3 (ON)
@VDD=+4.8V



VSWR vs. Frequency & VDD; RF1 & RF3 (OFF)

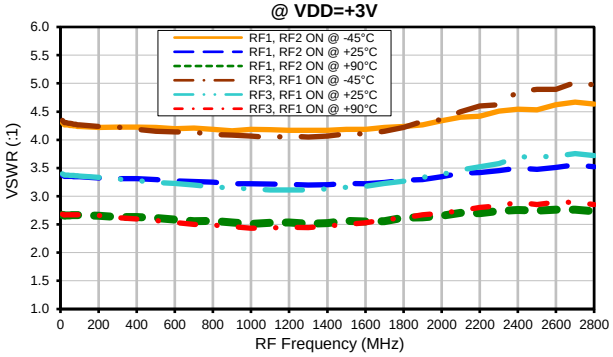


VSWR vs. Frequency & Temperature;
RF1 & RF3 (OFF)
@ VDD=+2.5V

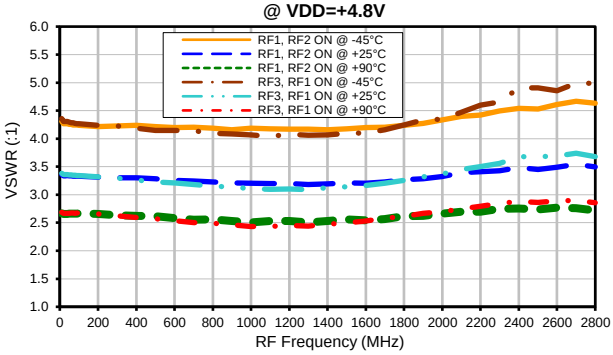


Typical Performance Curves

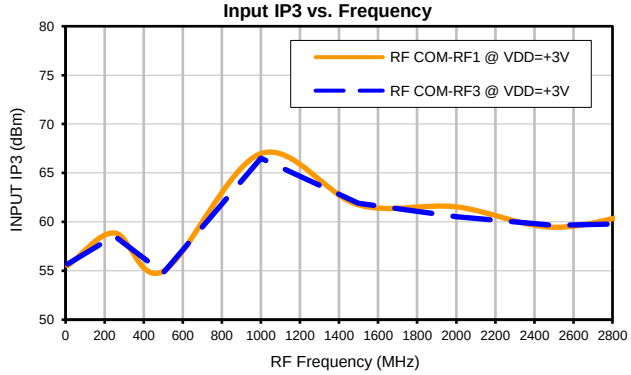
VSWR vs. Frequency & Temperature; RF1 & RF3 (OFF) @ VDD=+3V



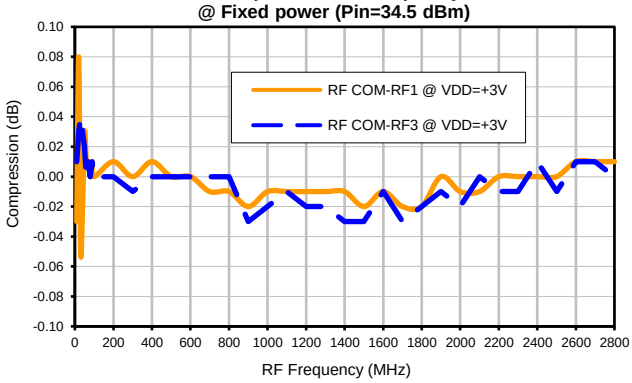
VSWR vs. Frequency & Temperature; RF1 & RF3 (OFF) @ VDD=+4.8V



Input IP3 vs. Frequency



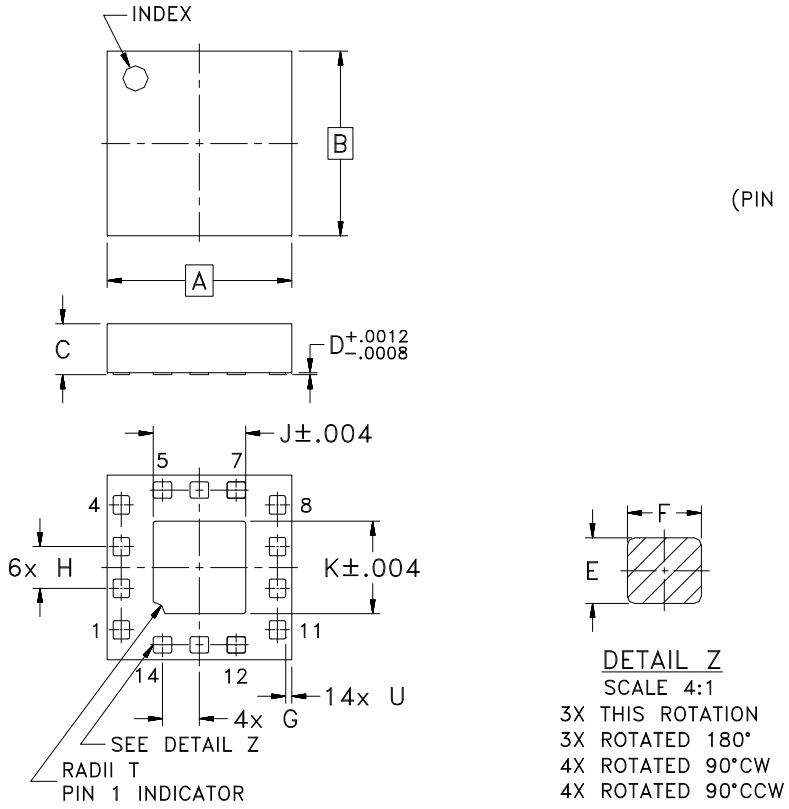
Compression vs. Frequency @ Fixed power (Pin=34.5 dBm)



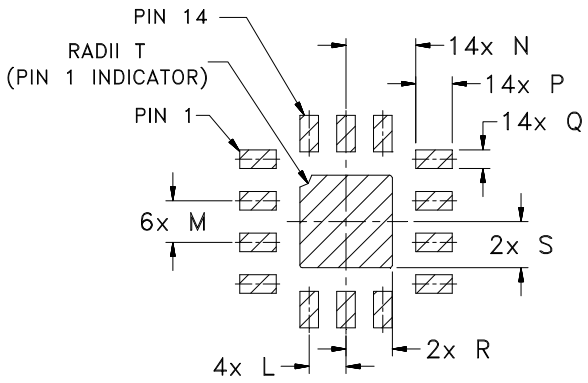
Case Style MT

MT1817

Outline Dimensions



PCB Land Pattern



Suggested Layout,
Tolerance to be within ±.002

CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
MT1817	.079 (2.00)	.079 (2.00)	.022 (0.55)	.0008 (0.02)	.007 (0.18)	.008 (0.20)	.016 (0.40)	.018 (0.45)	.039 (1.00)	.039 (1.00)	.016 (0.40)	.018 (0.45)	.030 (0.75)

CASE#	P	Q	R	S	T	U	WT, GRAM
MT1817	.016 (0.40)	.008 (0.20)	.020 (0.50)	.020 (0.50)	.005 (0.13)	.003 (0.065)	.008

Dimensions are in inches (mm). Tolerances: 3 Pl. ± .002

Notes:

1. Case material: Plastic.
2. Termination finish: Matte Tin.

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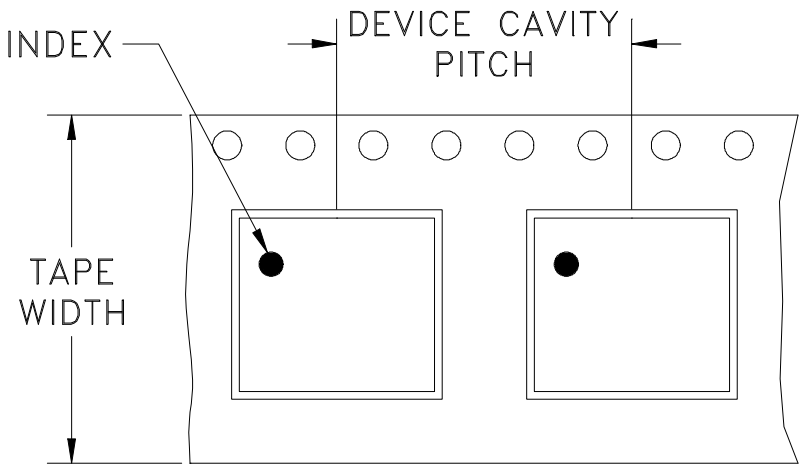
Tape & Reel Packaging TR-F108

DEVICE ORIENTATION IN T&R



DIRECTION OF FEED

Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel	
12	4	7	Small quantity standards	20
				50
				100
				200
				500
				1000
		7	Standard	2000
				3000

Note: Please Consult individual data sheet to determine device per reel availability

Mini-Circuits carrier tape materials provide protection from ESD (Electro-Static Discharge) during handling and transportation. Tapes are static dissipative and comply with industry standards EIA-481/EIA-541.

Go to: www.minicircuits.com/pages/pdfs/tape.pdf

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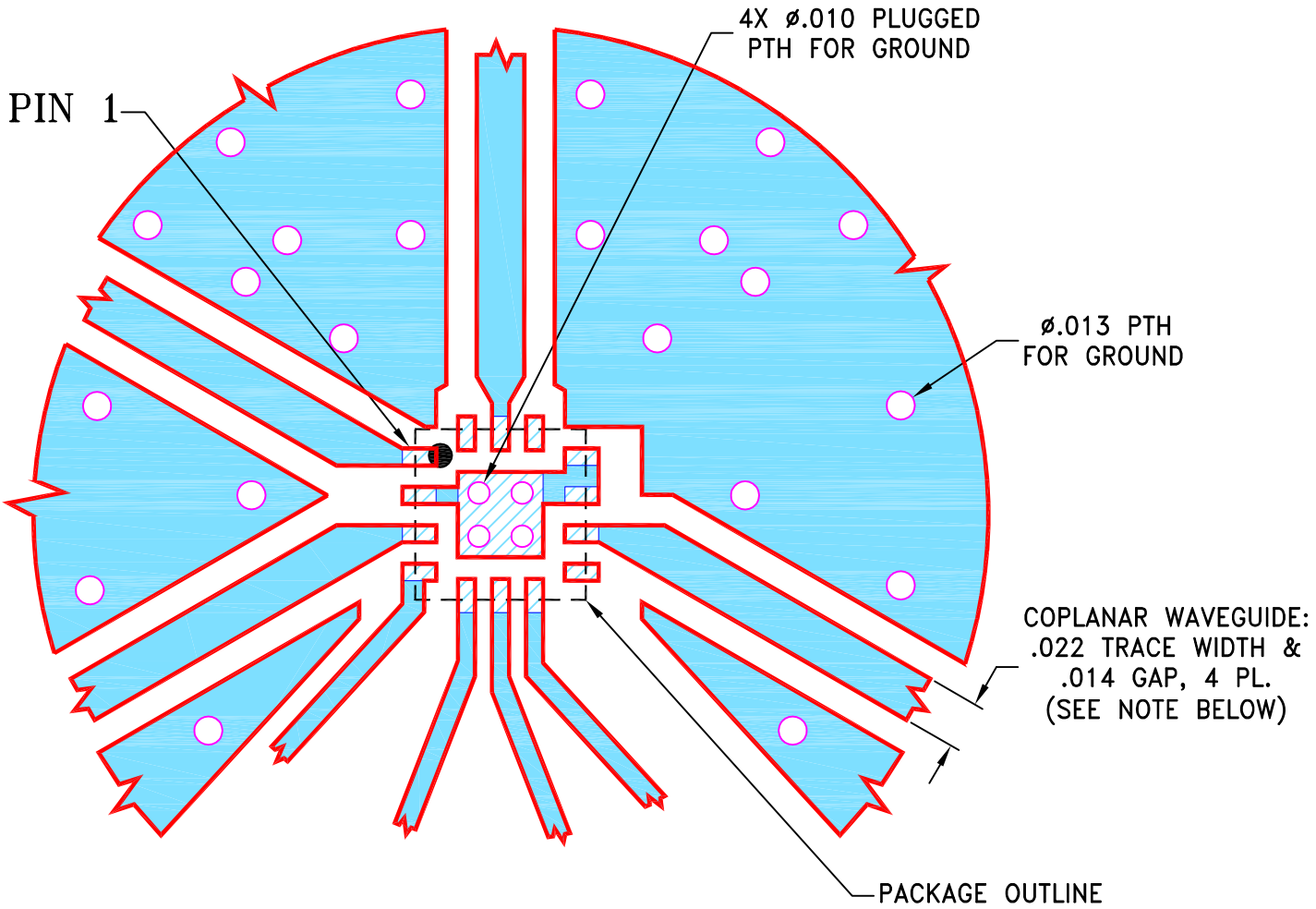
THIRD ANGLE PROJECTION

REVISIONS					
REV	ECN No.	DESCRIPTION	DATE	DR	AUTH
OR	M152910	NEW RELEASE	11/09/15	ITG	ZL

SUGGESTED MOUNTING CONFIGURATION
FOR MT1817 CASE STYLE, "14SW03" PIN CODE



NOTES:

1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .010"±.001"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER).

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK.

UNLESS OTHERWISE SPECIFIED		INITIALS	DATE
DIMENSIONS ARE IN INCHES	DRAWN	ITG	11/09/15
TOLERANCES ON:	CHECKED	GF	11/09/15
2 PL DECIMALS ±	APPROVED	ZL	11/09/15
3 PL DECIMALS ± .005			
ANGLES ±			
FRACTIONS ±			

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ASHEETA1.DWG REV:A DATE:01/12/95

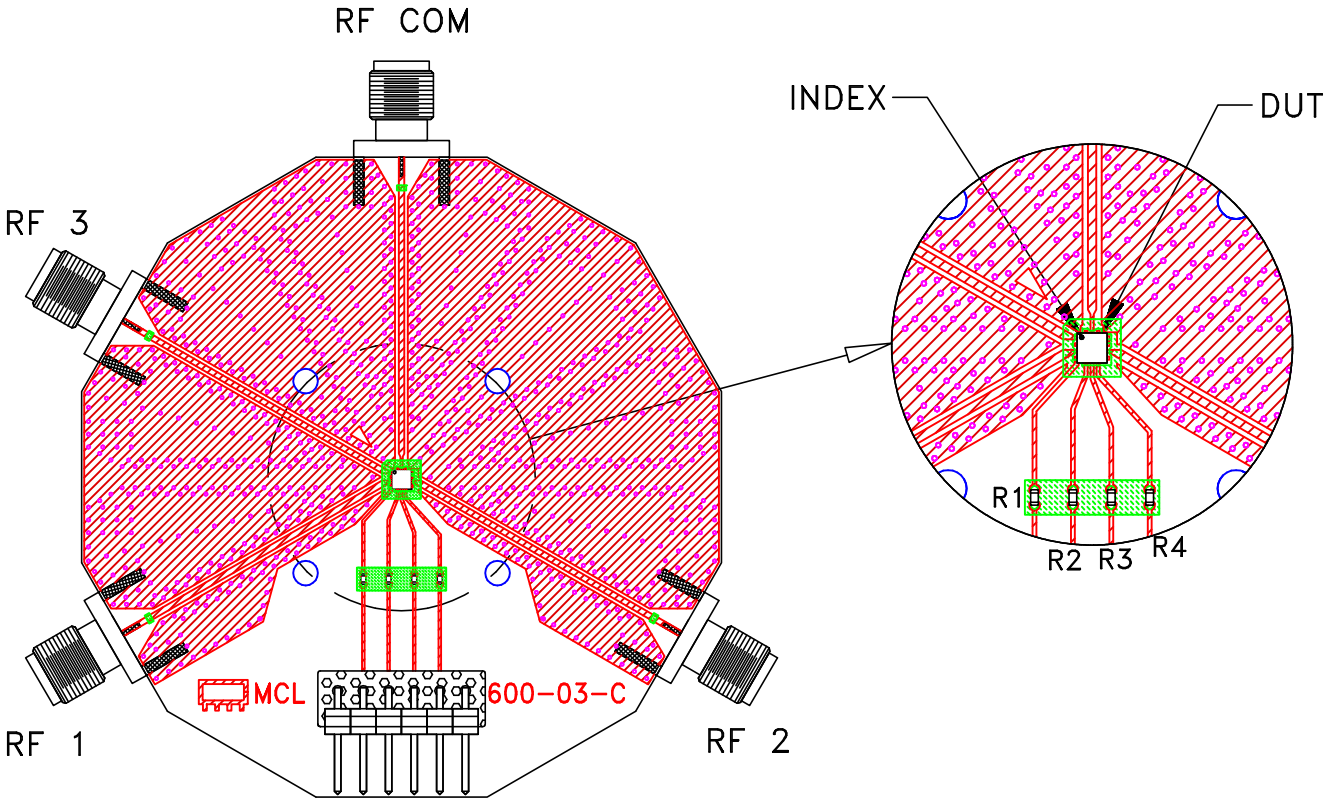
Mini-Circuits® 13 Neptune Avenue Brooklyn NY 11235

PL, 14SW03, MT1817, TB-724-3+

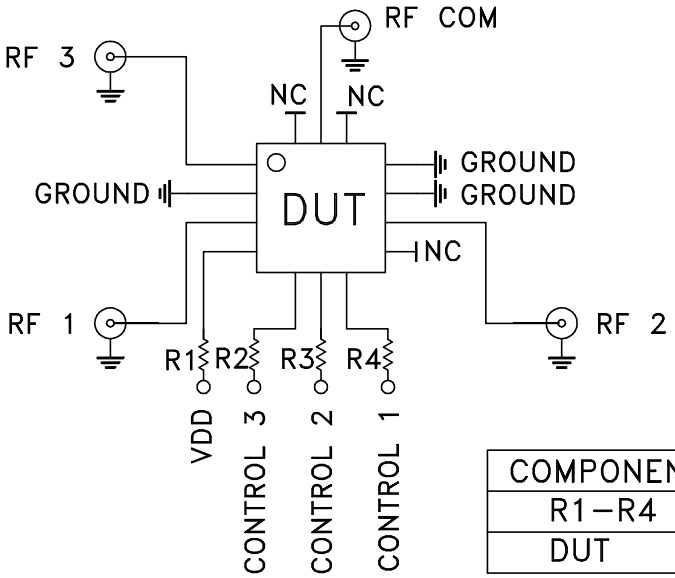
SIZE	CODE IDENT	DRAWING NO:	REV:
A	15542	98-PL-461	OR

FILE:	SCALE:	SHEET:
98PL461	12:1	1 OF 1

Evaluation Board and Circuit



TB-724-3+



COMPONENT	VALUE/PART NUMBER	SIZE
R1-R4	1 kOhm	0402
DUT	JSW3-272DR+	0402

Schematic Diagram

Notes:

1. 50 Ohm SMA Female connectors.
2. PCB Material: RO4350 or equivalent, Dielectric Constant=3.5, Thickness=.010 inch.

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Environmental Specifications ENV75

All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-40° to 85° C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-65° to 150° C / -40° to 125° C / -55° to 150° C Ambient Environment	Individual Model Data Sheet
Temperature Cycling	-65° to 150°C, 500 cycles	JESD22-A104, condition C
HAST	130°C, 85% RH, 33 PSIA, 96 hours, nominal bias	JESD22-A110
High Temp Storage	150°C 1000 hours	JESD22-A103
Solderability	Per Reference Spec	JESD22-B102
Moisture Sensitivity: Level 1	Bake at 125°C for 24 hours Soak at 85°C/85% RH for 168 hours, Reflow 3 cycles at 260°C peak	J-STD-020 D.01

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