

Reflective, Silicon SP8T Switch, 100 MHz to 20 GHz

FEATURES

- ▶ Ultrawideband frequency range: 100 MHz to 20 GHz
- ▶ Low insertion loss
 - ▶ 1.3 dB up to 6 GHz
 - ▶ 1.6 dB up to 12 GHz
 - ▶ 2.0 dB up to 20 GHz
- ▶ High isolation
 - ▶ 46 dB up to 6 GHz
 - ▶ 45 dB up to 12 GHz
 - ▶ 40 dB up to 20 GHz
- ► High input linearity
 - ▶ P0.1dB: 33 dBm typical
 - ▶ IP3: 55 dBm typical
- ▶ High RF power handling
 - Insertion loss path: 33 dBm
 - ▶ Hot switching: 30 dBm
- ▶ Fast switching on and off time: 55 ns
- ▶ 0.1 dB settling time (50% V_{CTRI} to 0.1 dB final RF_{OUT}): 100 ns
- ▶ Single-supply operation capability
- ▶ All off state control
- Logic select control
- ▶ No low frequency spurs
- ▶ 36-terminal, 5.50 mm x 5.50 mm LGA package

APPLICATIONS

- ► Test and instrumentation
- Military radios, radars, and electronic counter measures (ECMs)
- ▶ Microwave radios and very small aperture terminals (VSATs)

FUNCTIONAL BLOCK DIAGRAM

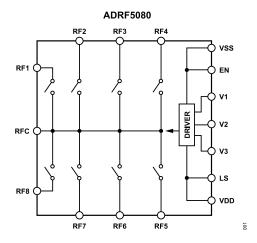


Figure 1. Functional Block Diagram

GENERAL DESCRIPTION

The ADRF5080 is a reflective, SP8T switch manufactured in the silicon process. The ADRF5080 operates from 100 MHz to 20 GHz with an insertion loss of lower than 2.0 dB and an isolation higher than 40 dB. The device has an RF input power handling capability of 30 dBm continuous wave power for the insertion loss path.

The ADRF5080 operates with a dual-supply voltage, +3.3 V and -3.3 V. The device can also operate with a single-supply voltage (VDD) applied while the negative supply pin (VSS) is tied to ground. The single-supply operation condition requires a lower operating power while the excellent small signal performance is maintained See Table 2 for details.

The ADRF5080 employs complementary metal-oxide semiconductor (CMOS)-/low voltage transistor to transistor logic (LVTTL)-compatible controls.

The ADRF5080 comes in a 36-terminal, 5.50 mm \times 5.50 mm, RoHS compliant, land grid array (LGA) package and can operate from -40° C to $+105^{\circ}$ C.

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REVISION HISTORY

7/2023—Revision 0: Initial Version

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SPECIFICATIONS

Positive supply voltage (V_{DD}) = 3.3 V, negative supply voltage (V_{SS}) = -3.3 V, LS voltage (V_{LS}), EN voltage (V_{EN}), V1, V2, or V3 = 0 V or VDD, and V_{CASE} = 25°C, with a 50 Ω system, unless otherwise noted. RFx refers to RF1 to RF8, and V_{CTRL} is the digital control inputs voltage of the V1, V2, and V3 pins.

Table 1. Specifications

Parameter	Symbol	Test Conditions/Comments	Min Typ	Max	Unit
FREQUENCY RANGE	f		100	20,000	MHz
INSERTION LOSS					
Between RFC and RFx (On)		100 MHz to 6 GHz	1.3		dB
, ,		6 GHz to 12 GHz	1.6		dB
		12 GHz to 20 GHz	2.0		dB
ISOLATION					
Between RFC and RFx		100 MHz to 6 GHz	50		dB
		6 GHz to 12 GHz	50		dB
		12 GHz to 20 GHz	44		dB
Between RFx and RFx		100 MHz to 6 GHz	46		dB
		6 GHz to 12 GHz	45		dB
		12 GHz to 20 GHz	40		dB
RETURN LOSS					
RFC (On)		100 MHz to 6 GHz	20		dB
(3.1)		6 GHz to 12 GHz	18		dB
		12 GHz to 20 GHz	18		dB
RFx (On)		100 MHz to 6 GHz	20		dB
Tu X (On)		6 GHz to 12 GHz	18		dB
		12 GHz to 20 GHz	18		dB
SWITCHING CHARACTERISTICS		12 0112 10 20 0112	10		ub
Rise Time and Fall Time	t _{RISE} , t _{FALL}	10% to 90% of RF output (RF _{OUT})	15		ns
On Time and Off Time	ton, toff	50% V _{CTRL} to 90% of RF _{OUT}	55		ns
RF Settling Time	'ON, 'OFF	00% VCIRE to 30% of 14 001	00		113
0.1 dB		50% V _{CTRL} to 0.1 dB of final RF _{OUT}	100		ns
INPUT LINEARITY ¹		30% VCIRE to 0.1 db of final fit [00]	100		113
Compression Point					
0.1 dB	P0.1dB	f = 100 MHz to 20 GHz	33		dBm
1 dB	P1dB	f = 100 MHz to 20 GHz	33.5		dBm
	IIP3		55.5		
Third-Order Intercept	IIPS	Two tone input power = 15 dBm each tone, f = 100 MHz to 20 GHz, Δf = 1 MHz	55		dBm
SUPPLY CURRENT		VDD and VSS pins			
Positive Supply Current	I _{DD}		220		μA
Negative Supply Current	I _{SS}		580		μA
DIGITAL CONTROL INPUTS		LS, EN, V1, V2, and V3 pins			
Voltage					
Low	V _{INL}		0	0.8	V
High	V _{INH}		1.2	3.3	V
Current					
Low	I _{INL}		<1		μA
High	I _{INH}	V1, V2, and V3 pins	<1		μA
3	11411	EN and LS pins	33		μA
RECOMMENDED OPERATING CONDITONS		1			1 .
Supply Voltage					
Positive	V _{DD}		3.15	3.45	V
Negative	V _{SS}		-3.45	-3.15	V

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SPECIFICATIONS

Table 1. Specifications (Continued)

Parameter	Symbol	Test Conditions/Comments	Min	Тур	Max	Unit
Digital Control Input Voltage	V _{CTRL}		0		VDD	V
RF Power Handling ²	P _{IN}	$f = 100 \text{ MHz to } 20 \text{ GHz}, T_{CASE} = 85^{\circ}C^{3}$				
Insertion Loss Path		RF signal is applied to RFC or through connected RFx			33	dBm
Hot Switching		RF signal is applied to RFC or through connected RFx			30	dBm
Case Temperature	T _{CASE}		-40		+105	°C

¹ For input linearity performance over frequency, see the Input Power Compression and Third-Order Intercept section.

SINGLE-SUPPLY OPERATION SPECIFICATIONS

Positive supply voltage (V_{DD}) = 3.3 V, negative supply voltage (V_{SS}) = 0 V, LS voltage (V_{LS}), EN voltage (V_{EN}), V1, V2, or V3 = 0 V or VDD, and V_{CASE} = 25°C, with a 50 Ω system, unless otherwise noted. RFx refers to RF1 to RF8, and V_{CTRL} is the digital control inputs voltage of the V1, V2, and V3 pins.

The small signal and bias characteristics are maintained for the single-supply operation.

Table 2. Single-Supply Operation Specifications

Parameter	Symbol	Test Conditions/Comments	Min	Тур	Max	Unit
FREQUENCY RANGE			100		20,000	MHz
SWITCHING						
Rise Time and Fall Time	t _{RISE} , t _{FALL}	10% to 90% of RF _{OUT}		50		ns
On Time and Off Time	t _{ON} , t _{OFF}	50% V _{CTRL} to 90% of RF _{OUT}		150		ns
0.1 dB Settling Time		50% V _{CTRL} to 0.1 dB of final RF _{OUT}		300		ns
INPUT LINEARITY						
0.1 dB Power Compression	P0.1dB	f = 100 MHz to 20 GHz		18		dBm
Third-Order Intercept	IP3	Two-tone input power = 20 dBm each tone, f = 15 GHz, Δf = 1 MHz		37		dBm
RECOMMENDED OPERATING CONDITIONS						
RF Power Handling		f = 100 MHz to 20 GHz, T _{CASE} = 85°C				
Insertion Loss Path		RF signal is applied to RFC or through connected RFx			15	dBm
Hot Switching		RF signal is applied to RFC or through connected RFx			9	dBm
Case Temperature	T _{CASE}		-40		+105	°C

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² For power derating over frequency, see Figure 2 and Figure 3.

 $^{^3}$ For 105°C operation, the power handling derates from the T_{CASE} = 85°C specification by 3 dB.

ABSOLUTE MAXIMUM RATINGS

For recommended operating conditions, see Table 1 and Table 2.

Table 3. Absolute Maximum Ratings

Parameter	Rating
Supply Voltage	
VDD	-0.3 V to +3.6 V
VSS	-3.6 V to +0.3 V
Digital Control Input ¹	
Voltage	-0.3 V to VDD + 0.3 V
Current	3 mA
RF Input Power ²	
Dual Supply (VDD = 3.3 V, VSS = -3.3 V, f = 100 MHz to 20 GHz, $T_{CASE} = 85^{\circ}C^{3}$)	
Through Path	33.5 dBm
Hot Switching	30.5 dBm
Single Supply (VDD = 3.3 V, VSS = 0 V, f = 100 MHz to 20 GHz, $T_{CASE} = 85^{\circ}C^{3}$)	
Through Path	15.5 dBm
Hot Switching	9.5 dBm
Unbiased (VDD, VSS = 0V)	10.5 dBm
Temperature	
Junction (T _J)	135°C
Storage	-65°C to +150°C
Reflow	260°C

Overvoltages at digital control inputs are clamped by internal diodes. Current must be limited to the maximum rating given.

Stresses at or above those listed under Absolute Maximum Ratings may cause permanent damage to the product. This is a stress rating only; functional operation of the product at these or any other conditions above those indicated in the operational section of this specification is not implied. Operation beyond the maximum operating conditions for extended periods may affect product reliability.

THERMAL RESISTANCE

Thermal performance is directly linked to printed circuit board (PCB) design and operating environment. Careful attention to PCB thermal design is required. θ_{JC} is the junction to case bottom (channel to package bottom) thermal resistance.

Table 4. Thermal Resistance

Package Type	θ _{JC} ¹	Unit	
CC-36-2			
Insertion Loss Path	130	°C/W	

¹ θ_{JC} was determined by simulation under the following conditions: the heat transfer is due solely to thermal conduction from the channel through the round pad to the PCB, and the ground pad is held constant at the operating temperature of 85°C.

POWER DERATING CURVES

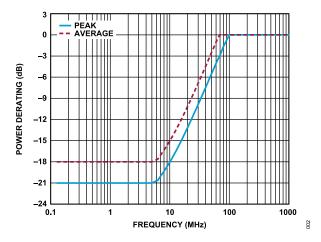


Figure 2. Power Derating vs. Frequency, Low Frequency Detail, T_{CASE} = 85°C



Figure 3. Power Derating vs. Frequency, High Frequency Detail, T_{CASE} = 85°C

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² For power derating over frequency, see Figure 2 and Figure 3.

For 105°C operation, the power handling degrades from the T_{CASE} = 85°C specification by 3 dB.

ABSOLUTE MAXIMUM RATINGS

ELECTROSTATIC DISCHARGE (ESD) RATINGS

The following ESD information is provided for handling of ESD sensitive devices in an ESD protected area only.

Human body model (HBM) per ANSI/ESDA/JEDEC JS-001.

Charged device model (CDM) per ANSI/ESDA/JEDEC JS-002.

ESD Ratings for ADRF5080

Table 5. ADRF5080, 36-Terminal LGA

ESD Model	Withstand Threshold (V)	Class
HBM		
RFx and RFC Pins	2000	2
Supply and Control Pins	2000	2
CDM	500	C2A

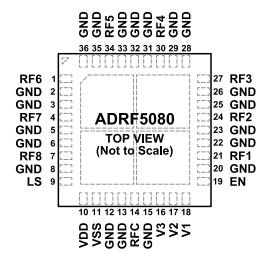
ESD CAUTION



ESD (electrostatic discharge) sensitive device. Charged devices and circuit boards can discharge without detection. Although this product features patented or proprietary protection circuitry, damage may occur on devices subjected to high energy ESD. Therefore, proper ESD precautions should be taken to avoid performance degradation or loss of functionality.

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PIN CONFIGURATION AND FUNCTION DESCRIPTIONS



NOTES 1. EXPOSED PAD. THE EXPOSED PAD MUST BE CONNECTED TO THE RF AND DC GROUND OF THE PCB.

004

Figure 4. Pin Configuration (Top View)

Table 6. Pin Function Descriptions

Pin No.	Mnemonic	Description
1	RF6	RF Throw Port 6. The RF6 pin is DC-coupled to 0 V and AC matched to 50 Ω. No DC blocking capacitor is required
		when the RF line potential is equal to 0 V DC. See Figure 5 for the interface schematic.
2, 3, 5, 6, 8, 12, 13, 15, 20, 22, 23, 25,	GND	Ground. The GND pins must be connected to the RF and DC ground of the PCB.
26, 28, 29, 31 to 33, 35, 36		
4	RF7	RF Throw Port 7. The RF7 pin is DC-coupled to 0 V and AC matched to 50 Ω . No DC blocking capacitor is required when the RF line potential is equal to 0 V DC. See Figure 5 for the interface schematic.
7	DEO	
7	RF8	RF Throw Port 8. The RF8 pin is DC-coupled to 0 V and AC matched to 50 Ω . No DC blocking capacitor is required when the RF line potential is equal to 0 V DC. See Figure 5 for the interface schematic.
9	LS	Logic Select. See Table 7 for the truth table. See Figure 7 for the interface schematic.
10	VDD	Positive Supply Voltage.
11	VSS	Negative Supply Voltage.
14	RFC	RF Common Port. The RFC pin is DC-coupled to 0 V and AC matched to 50 Ω . No DC blocking capacitor is required
		when the RF line potential is equal to 0 V DC. See Figure 5 for the interface schematic.
16	V3	Digital Input 3. See Table 7 for the truth table. See Figure 6 for the interface schematic.
17	V2	Digital Input 2. See Table 7 for the truth table. See Figure 6 for the interface schematic.
18	V1	Digital Input 1. See Table 7 for the truth table. See Figure 6 for the interface schematic.
19	EN	Enable Input. See Table 7 for the truth table. See Figure 7 for the interface schematic.
21	RF1	RF Throw Port 1. The RF1 pin is DC-coupled to 0 V and AC matched to 50 Ω . No DC blocking capacitor is required when the RF line potential is equal to 0 V DC. See Figure 5 for the interface schematic.
24	RF2	RF Throw Port 2. This pin is DC-coupled to 0 V and AC matched to 50 Ω. No DC blocking capacitor is required
		when the RF line potential is equal to 0 V DC. See Figure 5 for the interface schematic.
27	RF3	RF Throw Port 3. The RF3 pin is DC-coupled to 0 V and AC matched to 50Ω . No DC blocking capacitor is required when the RF line potential is equal to 0 V DC. See Figure 5 for the interface schematic.
30	RF4	RF Throw Port 4. The RF4 pin is DC-coupled to 0 V and AC matched to 50 Ω. No DC blocking capacitor is required
••	INT	when the RF line potential is equal to 0 V DC. See Figure 5 for the interface schematic.
34	RF5	RF Throw Port 5. The RF5 pin is DC-coupled to 0 V and AC matched to 50 Ω . No DC blocking capacitor is required when the RF line potential is equal to 0 V DC. See Figure 5 for the interface schematic.
	EPAD	Exposed Pad. The exposed pad must be connected to the RF and DC ground of the PCB.

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PIN CONFIGURATION AND FUNCTION DESCRIPTIONS

INTERFACE SCHEMATICS

RFC, RF1 TO RF8 O

Figure 5. RFx (RFC, RF1 to RF8) Interface Schematic

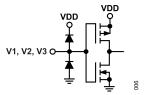


Figure 6. V1 to V3 Interface Schematic

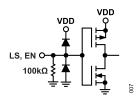


Figure 7. LS and EN Interface Schematic

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TYPICAL PERFORMANCE CHARACTERISTICS

INSERTION LOSS, RETURN LOSS, AND ISOLATION

VDD = 3.3 V, VSS = -3.3 V, V_{LS} , V_{EN} , V1, V2, or V3 = 0 V or V_{DD} , and T_{CASE} = 25°C in a 50 Ω system, unless otherwise noted.

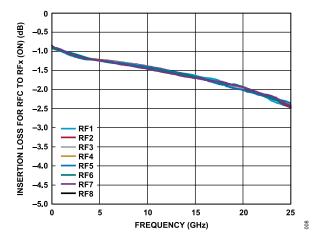


Figure 8. Insertion Loss for RFC to RFx (On) vs. Frequency

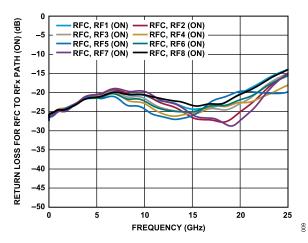


Figure 9. Return Loss for RFC to RFx Path (On) vs. Frequency

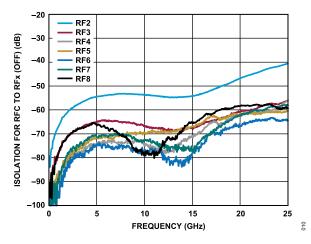


Figure 10. Isolation for RFC to RFx (Off) vs. Frequency, RFC to RF1 Path On

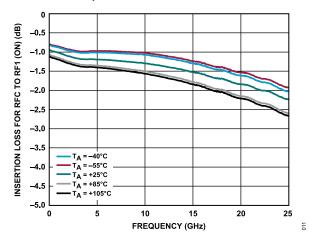


Figure 11. Insertion Loss for RFC to RF1 (On) vs. Frequency over Temperature

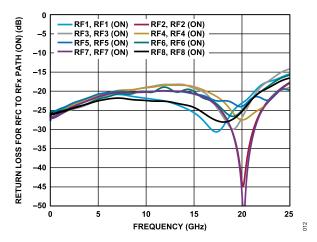


Figure 12. Return Loss for RFC to RFx Path (On) vs. Frequency

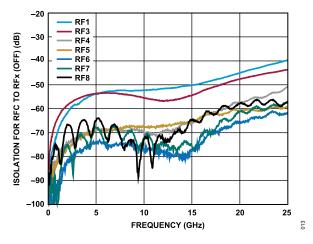


Figure 13. Isolation for RFC to RFx (Off) vs. Frequency, RFC to RF2 Path On

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TYPICAL PERFORMANCE CHARACTERISTICS

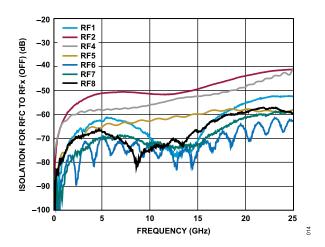


Figure 14. Isolation for RFC to RFx (Off) vs. Frequency, RFC to RF3 Path On

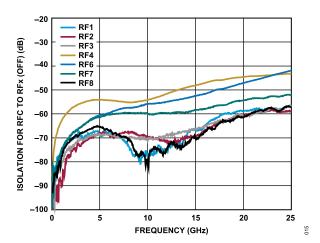


Figure 15. Isolation for RFC to RFx (Off) vs. Frequency, RFC to RF5 Path On

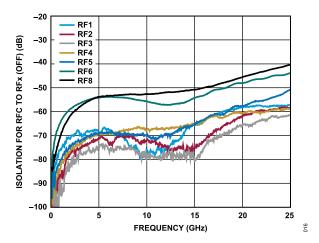


Figure 16. Isolation for RFC to RFx (Off) vs. Frequency, RFC to RF7 Path On

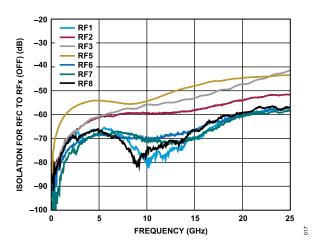


Figure 17. Isolation for RFC to RFx (Off) vs. Frequency, RFC to RF4 Path On

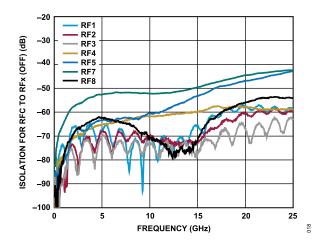


Figure 18. Isolation for RFC to RFx (Off) vs. Frequency, RFC to RF6 Path On

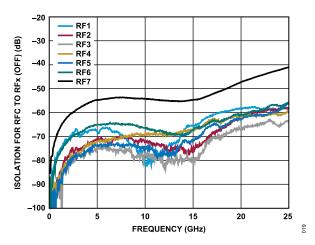


Figure 19. Isolation for RFC to RFx (Off) vs. Frequency, RFC to RF8 Path On

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TYPICAL PERFORMANCE CHARACTERISTICS

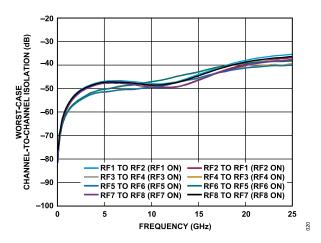


Figure 20. Worst-Case Channel-to-Channel Isolation vs. Frequency, RFC to RFx Path On

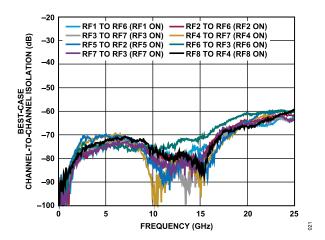


Figure 21. Best-Case Channel-to-Channel Isolation vs. Frequency, RFC to RFx Path On

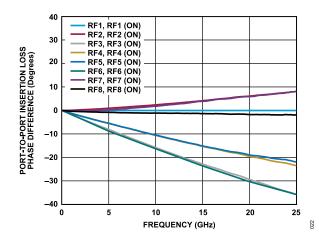


Figure 22. Port-to-Port Insertion Loss Phase Difference, RFC to RFx Path (On), vs. Frequency, Normalized to RF1

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TYPICAL PERFORMANCE CHARACTERISTICS

INPUT POWER COMPRESSION AND THIRD-ORDER INTERCEPT

VDD = 3.3 V, VSS = -3.3 V, V_{LS} , V_{EN} , V1, V2, or V3 = 0 V or V_{DD} , and T_{CASE} = 25°C on a 50 Ω system, unless otherwise noted.

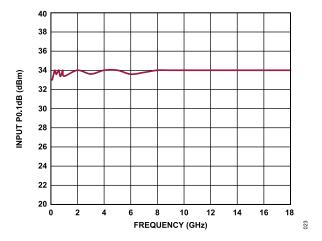


Figure 23. Input P0.1dB vs. Frequency

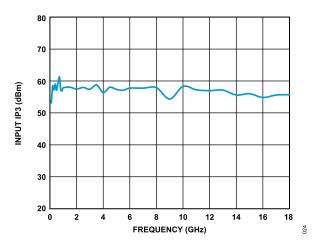


Figure 24. Input IP3 vs. Frequency

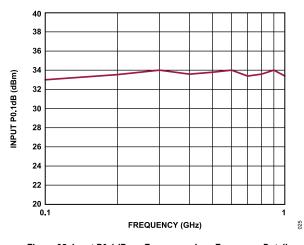


Figure 25. Input P0.1dB vs. Frequency, Low Frequency Detail

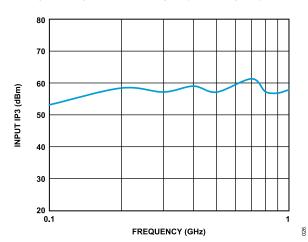


Figure 26. Input IP3 vs. Frequency, Low Frequency Detail

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THEORY OF OPERATION

The ADRF5080 integrates a driver to perform logic function internally and to provide the advantage of a simplified CMOS-/LVTTL-compatible control interface. The driver features five digital control input pins (LS, EN, V1, V2, and V3) that control the state of the RFx paths (see Table 7).

The LS input allows the user to define the control input logic sequence for the RF path selections. The logic level applied to the V1, V2, and V3 pins determine which RF port is in the insertion loss state while the other three paths are in the isolation state.

When the EN pin is logic low, the logic level applied to the CMOS control input pin determines which RF port is in the insertion loss state and which RF port is in the isolation state. The insertion loss path conducts the RF signal between the selected RF throw port and the RF common port. The isolation path provides high loss between the insertion loss path and the unselected RF throw port. The unselected RF port of the ADRF5080 is reflective.

When the EN pin is logic high, the switch is in an all off state regardless of the logic state of the LS, V1, V2 and V3 pins, and all of the RFx to RFC path is in an isolation state.

RF INPUT AND OUTPUT

Low

Iow

Low

High

High

High

High

high

Low or

High

High

High

high

Low or

Low

High

High

high

Low or

All of the RF ports (RFC, RF1 to RF8) are DC-coupled to 0 V, and no DC blocking is required at the RF ports when the RF line potential is equal to 0 V. The RF ports are internally matched to 50 Ω . Therefore, external matching networks are not required.

The switch design is bidirectional with equal power handling capabilities. The RF input signal can be applied to the RFC port or the selected RF throw port.

Off

Off

On

Off

High

Low

High

high

Low or

Off

On

Off

Off

Table 7. Control Voltage Truth Table **Digital Control Inputs RFx Paths** LS ۷1 RF1 to RFC RF2 to RFC RF3 to RFC RF4 to RFC RF5 to RFC RF6 to RFC RF7 to RFC RF8 to RFC ΕN V3 V2 Off Off Off Low Low Low Low On Off Off Off Off Low Low Low Low High Off On Off Off Off Off Off Off Low Off Off On Off Off Off Off Off Low Low Low High Low Low Low High High Off Off Off On Off Off Off Off Low Off Off Off Off On Off Off Off Low Low High Low Low Off Off Off Off On Off Off Low Low High Low High Off Off Off Off Off Off Off Off Low High High On Low Low I ow Iow High High High Off Off Off Off Off Off Off On Low High Low Low Low Off Off Off Off Off Off Off On Off Off Hiah Hiah Off Off Off Off On Off Iow I ow I ow Off Low High Low High Low Off Off Off Off On Off Off High Off Off Off Off On Off Off Off Low High High Low Off Off Off On Off Off Off Off High High Low I ow Low

POWER SUPPLY

The ADRF5080 requires a positive supply voltage applied to the VDD pin and a negative supply voltage applied to the VSS pin. Bypassing capacitors are recommended on the supply lines to minimize RF coupling.

The ideal power-up sequence is as follows:

- 1. Connect GND to ground.
- 2. Power up VDD and VSS. Powering up VSS after VDD avoids current transients on VDD during ramp up.
- 3. Apply a control voltage to the digital control inputs (EN, LS, V1, V2, and V3). Applying a control voltage to the digital control inputs before the VDD supply can inadvertently forward bias and damage the internal ESD protection structures. Use a series 1 kΩ resistor to limit the current flowing into the control pin in such cases. If the control pins are not driven to a valid logic state (that is, controller output is in high impedance state) after VDD is powered up, it is recommended to use a pull-up or pull-down resistor.
- 4. Apply an RF input signal.

The ideal power-down sequence is the reverse order of the powerup sequence.

SINGLE-SUPPLY OPERATION

The ADRF5080 can operate with a single positive supply voltage applied to the VDD pin and VSS pin connected to ground. However, some performance degradations can occur in the input compression and input third-order intercept.

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On

Off

APPLICATIONS INFORMATION

The ADRF5080 has two power supply pins (VDD and VSS) and five digital control pins (LS, EN, V1, V2, and V3). Figure 27 shows the external components and connections for the supply and control pins. Supply and control pins are decoupled with a 10 pF or 100 pF multilayer ceramic capacitor. The device pinout allows the placement of the decoupling capacitors close to the device. No other external components are needed for bias and operation, except DC blocking capacitors on the RFx pins when the RF lines are biased at a voltage different than 0 V. Refer to Pin Configuration and Function Descriptions section for further details.

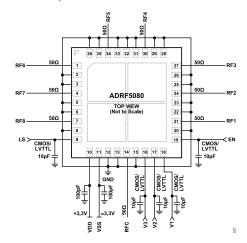


Figure 27. Recommended Schematic

RECOMMENDATIONS FOR PCB DESIGN

The RF ports are matched to 50 Ω internally and the pinout is designed to mate a coplanar waveguide (CPWG) with 50 Ω characteristic impedance on the PCB. Figure 28 shows the referenced CPWG RF trace design for an RF substrate with 8 mil thick Rogers RO4003 dielectric material. The RF trace with a 14 mil width and a 7 mil clearance is recommended for 2.8 mil finished copper thickness.

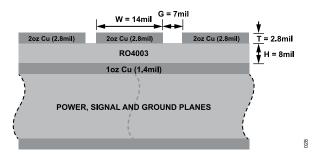


Figure 28. Example PCB Stackup

Figure 29 shows the routing of the RF traces, supply, and control signals from the device. The ground planes are connected with as many filled through vias as allowed for optimal RF and thermal performance. The primary thermal path for the device is the bottom side.

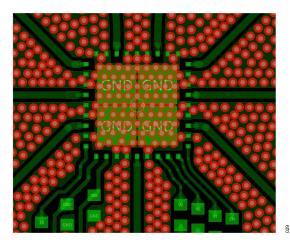


Figure 29. PCB Routings

Figure 30 shows the recommended layout from the device RFx pins to the 50 Ω CPWG on the referenced stackup. PCB pads are drawn 1:1 to device pads. The ground pads are drawn solder mask defined, and the signal pads are drawn as pad defined. The RF trace from the PCB pad is extended with the same width by 2 mils and tapered to an RF trace with 45° angle. The paste mask is also designed to match the pad without any aperture reduction. The paste is divided into multiple openings for the paddle.

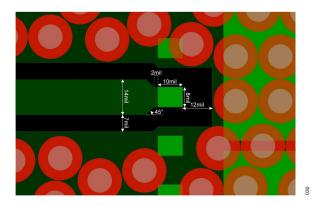


Figure 30. Recommended RFx Pin Transitions

For alternate PCB stackups with different dielectric thickness and CPWG design, contact Analog Devices, Inc., Technical Support Request for further recommendations.

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OUTLINE DIMENSIONS

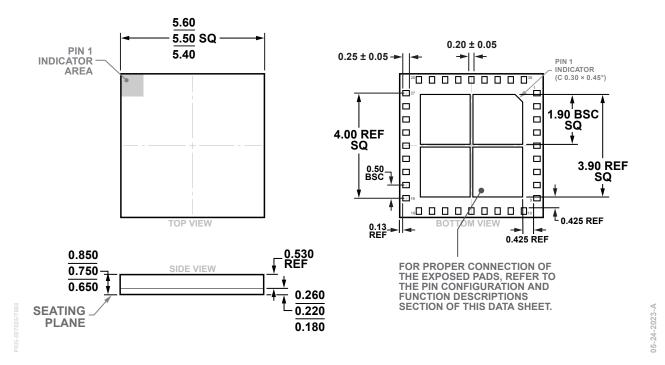


Figure 31. 36-Terminal Land Grid Array [LGA] (CC-36-2) Dimensions shown in millimeters

Updated: June 30, 2023

ORDERING GUIDE

Model ¹	Tompovoture Bonce	Daakana Daaasintian	Packing Quantity	Package
Model.	Temperature Range	Package Description	Packing Quantity	Option
ADRF5080BCCZN	-40°C to +105°C	LGA/CASON/CH ARRY SO NO LD		CC-36-2
ADRF5080BCCZN-R7	-40°C to +105°C	LGA/CASON/CH ARRY SO NO LD	Reel, 500	CC-36-2

¹ Z = RoHS Compliant Part.

EVALUATION BOARDS

Model ¹	Description
ADRF5080-EVALZ	Evaluation Board

Z = RoHS-Compliant Part.

