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REVISION HISTORY

3/2020—Rev. 0 to Rev. A	
Changes to RF Power Parameter, Table 1	4
Changes to Table 3	6
Changes to Power Supply Section	11
Added Power-Up State Section	11
Moved Serial or Parallel Mode Selection Section and Table 7;	
Renumbered Sequentially	12
Changes to Power Supply Section Added Power-Up State Section Moved Serial or Parallel Mode Selection Section and Table 7;	11 11

9/2018—Revision 0: Initial Version

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SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

VDD = 3.3 V, VSS = -3.3 V, digital voltages = 0 V or VDD, case temperature (T_{CASE}) = 25°C, and a 50 Ω system, unless otherwise noted.

Parameter	Test Conditions/Comments	Min	Тур	Max	Unit
FREQUENCY RANGE		0.009		40,000	MHz
INSERTION LOSS (IL)	9 kHz to 10 GHz		1.3		dB
	10 GHz to 18 GHz		1.6		dB
	18 GHz to 26 GHz		2.0		dB
	26 GHz to 35 GHz		2.7		dB
	35 GHz to 40 GHz		3.4		dB
RETURN LOSS	ATTIN and ATTOUT, all attenuation states				
	9 kHz to 10 GHz		20		dB
	10 GHz to 18 GHz		19		dB
	18 GHz to 26 GHz		17		dB
	26 GHz to 35 GHz		17		dB
	35 GHz to 40 GHz		16		dB
ATTENUATION			10		ab
Range	Between minimum and maximum attenuation states		30		dB
Step Size	Between any successive attenuation states		2		dB
Accuracy	Referenced to insertion loss		2		ub
Accuracy	9 kHz to 10 GHz		±(0.1 + 1.0%)		dB
	10 GHz to 18 GHz		$\pm (0.1 \pm 1.0\%)$ $\pm (0.1 \pm 1.0\%)$		dB
	18 GHz to 26 GHz		$\pm (0.1 \pm 1.0\%)$ $\pm (0.1 \pm 2.5\%)$		dB
	26 GHz to 35 GHz		$\pm (0.1 \pm 2.5\%)$ $\pm (0.2 \pm 6.0\%)$		dB
	35 GHz to 40 GHz		$\pm (0.2 \pm 0.0\%)$ $\pm (0.6 \pm 10\%)$		dB
Step Error			$\pm (0.0 \pm 10\%)$		UD
Step End	Between any successive attenuation states 9 kHz to 10 GHz		±0.05		dB
	10 GHz to 18 GHz		±0.05 ±0.15		dВ
	18 GHz to 26 GHz		±0.15 ±0.20		dВ
	26 GHz to 35 GHz		±0.20 ±0.35		dВ
	35 GHz to 40 GHz				dВ
			±0.60		иь
RELATIVE PHASE	Referenced to insertion loss		17		D
	9 kHz to 10 GHz		17		Degre
	10 GHz to 18 GHz		26		Degre
	18 GHz to 26 GHz		37		Degre
	26 GHz to 35 GHz		53		Degre
	35 GHz to 40 GHz		77		Degre
SWITCHING CHARACTERISTICS	All attenuation states at input power (P_{IN}) = 10 dBm				
Rise and Fall Time (t _{RISE} and t _{FALL})	10% to 90% of RF output		1.3		μs
On and Off Time (t_{ON} and t_{OFF})	50% triggered control (CTL) to 90% of RF output		3.8		μs
RF Amplitude Settling Time					
0.1 dB	50% triggered CTL to 0.1 dB of final RF output		8.5		μs
0.05 dB	50% triggered CTL to 0.05 dB of final RF output		11		μs
Overshoot			1.5		dB
Undershoot			-1.0		dB
RF Phase Settling Time	f = 5 GHz				
5°	50% triggered CTL to 5° of final RF output		2.2		μs
1°	50% triggered CTL to 1° of final RF output		3.5		μs

Parameter	Test Conditions/Comments	Min	Тур	Max	Unit
INPUT LINEARITY ¹	500 kHz to 30 GHz				
0.1 dB Power Compression (P0.1dB)					
Insertion Loss State			30		dBm
Other Attenuation States			26		dBm
Third-Order Intercept (IP3)	Two-tone input power = 14 dBm per tone,		50		dBm
-	$\Delta f = 1$ MHz, all attenuation states				
DIGITAL CONTROL INPUTS	LE, PS, D2, D3/SEROUT, ² D4/SERIN, D5/CLK pins				
Voltage					
Low (V _{INL})		0		0.8	V
High (V _{INH})		1.2		3.3	V
Current					
Low (I _{INL})			<1		μΑ
High (I _{INH})	D2		33		μA
	LE, PS, D3/SEROUT, ² D4/SERIN, D5/CLK pins		<1		μA
DIGITAL CONTROL OUTPUT	D3/SEROUT pin ²				
Voltage					
Low (V _{OUTL})			0 ± 0.3		v
High (V _{оитн})			VDD ± 0.3		v
Low and High Current (IOUTL, IOUTH)				0.5	mA
SUPPLY CURRENT	VDD and VSS pins				
Positive			117		μΑ
Negative			-117		μA
RECOMMENDED OPERATING CONDITIONS					
Supply Voltage					
Positive (V _{DD})		3.15		3.45	v
Negative (Vss)		-3.45		-3.15	v
Digital Control Voltage		0		VDD	v
RF Power ³	$f = 500 \text{ kHz to } 30 \text{ GHz}, T_{CASE} = 85^{\circ}\text{C},^{4} \text{ all attenuation}$				
	states				
Input at ATTIN	Steady state average			26	dBm
	Steady state peak			30	dBm
	Hot switching average			24	dBm
	Hot switching peak			27	dBm
Input at ATTOUT	Steady state average			18	dBm
	Steady state peak			21	dBm
	Hot switching average			15	dBm
	Hot switching peak			18	dBm
Case Temperature (T _{CASE})		-40		+105	°C

¹ Input linearity performance degrades over frequency (see Figure 20 and Figure 21).
² The D3/SEROUT pin is an input in parallel control mode and an output in serial control mode. See Table 5 for the pin function descriptions.
³ For power derating over frequency, see Figure 2 and Figure 3. Applicable for all ATTIN and ATTOUT power specifications.
⁴ For 105°C operation, the power handling degrades from the T_{CASE} = 85°C specifications by 3 dB.

TIMING SPECIFICATIONS

See Figure 24, Figure 25, and Figure 26 for the timing diagrams.

Table 2.

Parameter	Description	Min	Тур	Max	Unit
t _{SCK}	Minimum serial period, see Figure 24	70			ns
t cs	Control setup time, see Figure 24	15			ns
t _{сн}	Control hold time, see Figure 24		20		ns
t _{LN}	LE setup time, see Figure 24	15			ns
t _{LEW}	Minimum LE pulse width, see Figure 24 and Figure 26		10		
t _{LES}	Minimum LE pulse spacing, see Figure 24		630		
t ски	Serial clock hold time from LE, see Figure 24		0		
t _{PH}	Hold time, see Figure 26	10			ns
tps	Setup time, see Figure 26	2			ns
t _{co}	Clock to output (SEROUT) time, see Figure 25		20		ns

ABSOLUTE MAXIMUM RATINGS

Table 3.

Table 3.	
Parameter	Rating
Positive Supply Voltage (V _{DD})	–0.3 V to +3.6 V
Negative Supply Voltage (Vss)	-3.6 V to +0.3 V
Digital Control Inputs	
Voltage	–0.3 V to VDD + 0.3 V
Current	3 mA
RF Power ¹ (f = 500 kHz to 30 GHz,	
$T_{CASE} = 85^{\circ}C^{2})$	
Input at ATTIN	
Steady State Average	27 dBm
Steady State Peak	31 dBm
Hot Switching Average	25 dBm
Hot Switching Peak	28 dBm
Input at ATTOUT	
Steady State Average	19 dBm
Steady State Peak	22 dBm
Hot Switching Average	16 dBm
Hot Switching Peak	19 dBm
RF Power Under Unbiased Condition	
$(V_{DD}, V_{SS} = 0 V)$	
Input at ATTIN	21 dBm
Input at ATTOUT	15 dBm
Temperature	
Junction (T _J)	135℃
Storage	–65°C to +150°C
Reflow	260°C
Continuous Power Dissipation (PDISS)	0.5 W
Electrostatic Discharge (ESD) Sensitivity	
Human Body Model (HBM)	
ATTIN and ATTOUT Pins	1500 V
Digital Pins	2000 V
Charged Device Model (CDM)	1250 V

¹ For power derating over frequency, see Figure 2 and Figure 3. Applicable for all ATTIN and ATTOUT power specifications.

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

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.

 $\theta_{\rm JC}$ is the junction to case bottom (channel to package bottom) thermal resistance.

Table 4. Thermal Resistance

Package Type	οις	Unit
CC-16-6	100	°C/W

POWER DERATING CURVES

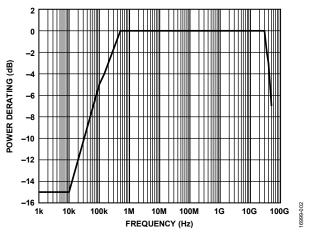


Figure 2. Power Derating vs. Frequency, Low Frequency Detail, $T_{CASE} = 85^{\circ}C$

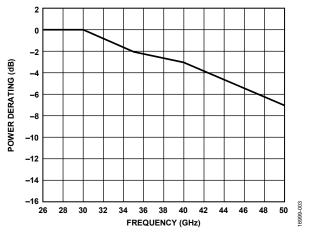


Figure 3. Power Derating vs. Frequency, High Frequency Detail, $T_{CASE} = 85^{\circ}C$

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.

PIN CONFIGURATION AND FUNCTION DESCRIPTIONS

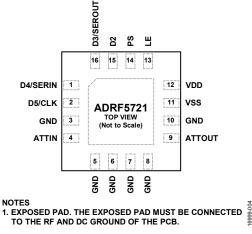


Figure 4. Pin Configuration

Table 5. Pin Function Descriptions

Pin No.	Mnemonic	Description
1	D4/SERIN	Parallel Control Input for 8 dB Attenuator Bit (D4).
		Serial Data Input (SERIN). See the Theory of Operation section for more information.
2	D5/CLK	Parallel Control Input for 16 dB Attenuator Bit (D5).
		Serial Clock Input (CLK). See the Theory of Operation section for more information.
3, 5 to 8, 10	GND	Ground. These pins must be connected to the RF and dc ground of the PCB.
4	ATTIN	Attenuator Input. This pin is dc-coupled to 0 V and ac matched to 50 Ω . No dc blocking capacitor is needed when the RF line potential is equal to 0 V dc.
9	ATTOUT	Attenuator Output. This pin is dc-coupled to 0 V and ac matched to 50 Ω . No dc blocking capacitor is needed when the RF line potential is equal to 0 V dc.
11	VSS	Negative Supply Input.
12	VDD	Positive Supply Input.
13	LE	Latch Enable Input. See the Theory of Operation section for more information.
14	PS	Parallel or Serial Control Interface Selection Input. See the Theory of Operation section for more information.
15	D2	Parallel Control Input for 2 dB Attenuator Bit. See the Theory of Operation section for more information.
16	D3/SEROUT	Parallel Control Input for 4 dB Attenuator Bit (D3).
		Serial Data Output (SEROUT). See the Theory of Operation section for more information.
17	EPAD	Exposed Pad. The exposed pad must be connected to the RF and dc ground of the PCB.

INTERFACE SCHEMATICS

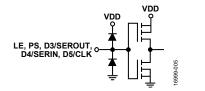


Figure 5. Digital Input Interface Schematic for LE, PS, D3/SEROUT, D4/SERIN, and D5/CLK

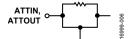


Figure 6. ATTIN and ATTOUT Interface Schematic

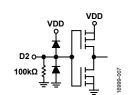


Figure 7. Digital Input Interface Schematic for D2

TYPICAL PERFORMANCE CHARACTERISTICS

INSERTION LOSS, RETURN LOSS, STATE ERROR, STEP ERROR, AND RELATIVE PHASE

VDD = 3.3 V, VSS = -3.3 V, digital voltages = 0 V or VDD, $T_{CASE} = 25^{\circ}C$, and a 50 Ω system, unless otherwise noted. Measured on probe matrix board using ground signal ground (GSG) probes close to the RF pins (ATTIN and ATTOUT). See the Applications Information section for details on evaluation and probe matrix boards.

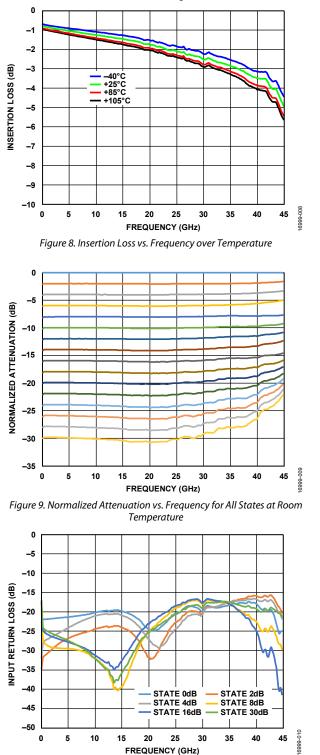


Figure 10. Input Return Loss vs. Frequency (Major States Only)

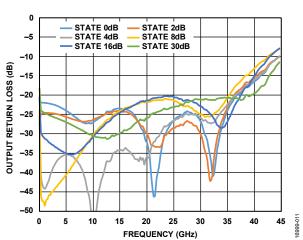
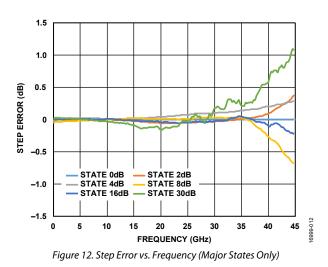


Figure 11. Output Return Loss vs. Frequency (Major States Only)



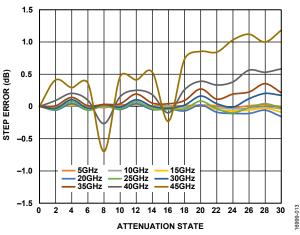


Figure 13. Step Error vs. Attenuation State over Frequency

Data Sheet

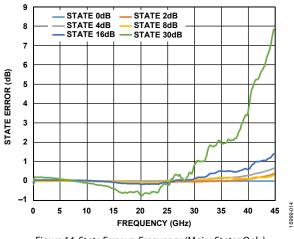


Figure 14. State Error vs. Frequency (Major States Only)

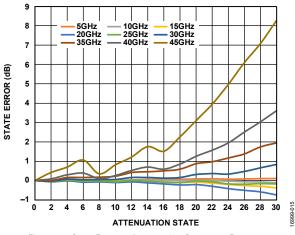
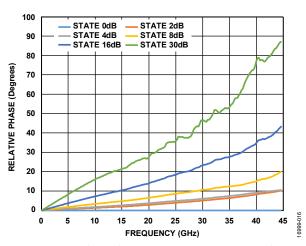


Figure 15. State Error vs. Attenuation State over Frequency



ADRF5721

Figure 16. Relative Phase vs. Frequency (Major States Only)

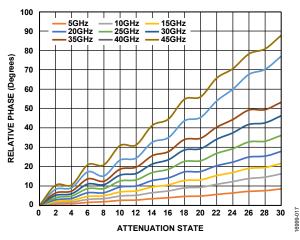


Figure 17. Relative Phase vs. Attenuation State over Frequency

INPUT POWER COMPRESSION AND THIRD-ORDER INTERCEPT

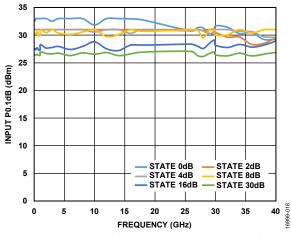


Figure 18. Input P0.1dB vs. Frequency (Major States Only)

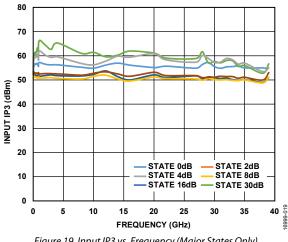


Figure 19. Input IP3 vs. Frequency (Major States Only)

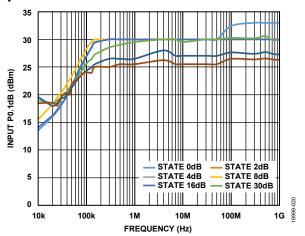


Figure 20. Input P0.1dB vs. Frequency (Major States Only), Low Frequency Detail

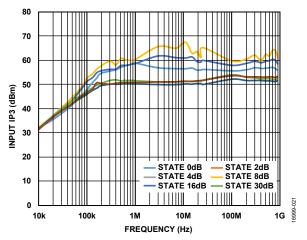


Figure 21. Input IP3 vs. Frequency (Major States Only), Low Frequency Detail

THEORY OF OPERATION

The ADRF5721 incorporates a 4-bit fixed attenuator array that offers an attenuation range of 30 dB in 2 dB steps. An integrated driver provides both serial and parallel mode control of the attenuator array (see Figure 22).

Note that when referring to a single function of a multifunction pin in this section, only the portion of the pin name that is relevant is mentioned. For full pin names of the multifunction pins, refer to the Pin Configuration and Function Descriptions section.

POWER SUPPLY

Bypassing capacitors are recommended on the positive supply voltage line (VDD) and negative supply line (VSS) to filter high frequency noise.

The power-up sequence is as follows:

- 1. Connect GND.
- 2. Power up the VDD and VSS voltages. Power up VSS after VDD to avoid current transients on VDD during ramp-up.
- 3. Power up the digital control inputs. The order of the digital control inputs is not important. However, powering the digital control inputs before the VDD voltage supply may inadvertently forward bias and damage the internal ESD structures. To avoid this damage, use a series 1 k Ω resistor to limit the current flowing in to the control pin. Use pull-up or pull-down resistors if the controller output is in a

Table 6. Truth Table

high impedance state after the VDD voltage is powered up and the control pins are not driven to a valid logic state.

4. Apply an RF input signal to ATTIN or ATTOUT.

The power-down sequence is the reverse order of the power-up sequence.

Power-Up State

The ADRF5721 has internal power-on reset circuity. This circuity sets the attenuator to the maximum attenuation state (30 dB) when the VDD and VSS voltages are applied and LE is set to low.

RF INPUT AND OUTPUT

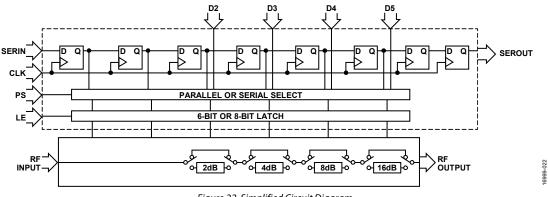
Both RF ports (ATTIN and ATTOUT) are dc-coupled to 0 V. DC blocking is not required at the RF ports when the RF line potential is equal to 0 V.

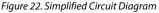
The RF ports are internally matched to 50 Ω . Therefore, external matching components are not required.

The ADRF5721 supports bidirectional operation at a lower power level. The power handling of the ATTIN and ATTOUT ports are different. Therefore, the bidirectional power handling is defined by the ATTOUT port. Refer to the RF input power specifications in Table 1.

	Digital Control Input ¹						
D5	D4	D3	D2	D1	D0	Attenuation State (dB)	
Low	Low	Low	Low	Don't care	Don't care	0 (reference)	
Low	Low	Low	High	Don't care	Don't care	2	
Low	Low	High	Low	Don't care	Don't care	4	
Low	High	Low	Low	Don't care	Don't care	8	
High	Low	Low	Low	Don't care	Don't care	16	
High	High	High	High	Don't care	Don't care	30	

¹ Any combination of the control voltage input states shown in Table 6 provides an attenuation equal to the sum of the bits selected.





SERIAL OR PARALLEL MODE SELECTION

The ADRF5721 can be controlled in either serial or parallel mode by setting the PS pin to high or low, respectively (see Table 7).

PS	Control Mode		
Low	Parallel		
High	Serial		

SERIAL MODE INTERFACE

The ADRF5721 supports a 3-wire SPI: serial data input (SERIN), clock (CLK), and latch enable (LE). The serial control interface is activated when PS is set to high.

The ADRF5721 attenuation state is controlled by Bits[D5:D2]. Bit D0 and Bit D1 are don't care bits but must be input. Therefore, at least a 6-bit SERIN must be used to control the attenuation states. If using an 8-bit word to control the state of the attenuator, Bits[D7:D6] and Bits[D1:D0] are don't care bits. It does not matter if these bits are held low or high. Refer to Table 6 and Figure 24 for additional information.

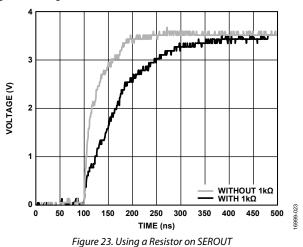
In serial mode, the SERIN data is clocked most significant bit (MSB) first on the rising CLK edges into the shift register. Then, LE must be toggled high to latch the new attenuation state into the device. LE must be set to low to clock new SERIN data into the shift register as CLK is masked to prevent the attenuator value from changing if LE is kept high. See Figure 24 in conjunction with Table 2 and Table 6.

Using SEROUT

The ADRF5721 also features a serial data output, SEROUT. SEROUT outputs the serial input data at the eighth clock cycle, and can control a cascaded attenuator using a single SPI bus. Figure 25 shows the serial output timing diagram.

When using the attenuator in a daisy-chain operation, 8-bit SERIN data must be used due to the 8-clock cycle delay between SERIN and SEROUT.

It is optional to use a 1 k Ω resistor between SEROUT on the first attenuator and SERIN of the next attenuator to filter the signal (see Figure 23).



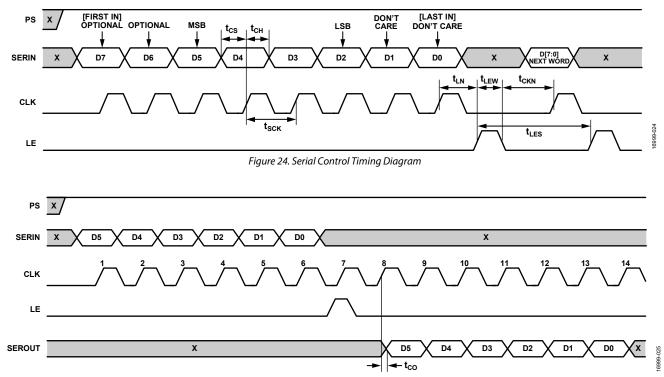


Figure 25. Serial Output Timing Diagram

PARALLEL MODE INTERFACE

The ADRF5721 has four digital control inputs, D2 (LSB) to D5 (MSB), to select the desired attenuation state in parallel mode, as shown in Table 6. The parallel control interface is activated when PS is set to low.

There are two modes of parallel operation: direct parallel and latched parallel.

Direct Parallel Mode

To enable direct parallel mode, keep the LE pin high. To change the attenuation state, use the control voltage inputs (D2 to D5) directly. This mode is ideal for manual control of the attenuator.

Latched Parallel Mode

To enable latched parallel mode, keep the LE pin low when changing the control voltage inputs (D2 to D5) to set the attenuation state. When the desired state is set, toggle LE high to transfer the 4-bit data to the bypass switches of the attenuator array, and then toggle LE low to latch the change into the device until the next desired attenuation change (see Figure 26 in conjunction with Table 2).

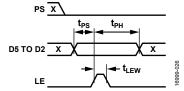


Figure 26. Latched Parallel Mode Timing Diagram

APPLICATIONS INFORMATION Evaluation board

The ADRF5721-EVALZ is a 4-layer evaluation board. The top and bottom copper layer are 0.5 oz (0.7 mil) plated to 1.5 oz (2.2 mil) and are separated by dielectric materials. The stackup for this evaluation board is shown in Figure 27.

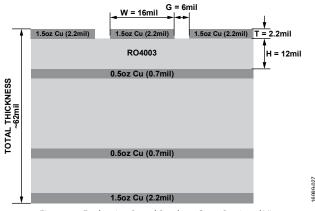


Figure 27. Evaluation Board Stackup, Cross Sectional View

All RF and dc traces are routed on the top copper layer, whereas the inner and bottom layers are grounded planes that provide a solid ground for the RF transmission lines. The top dielectric material is 12 mil Rogers RO4003, offering optimal high frequency performance. The middle and bottom dielectric materials provide mechanical strength. The overall board thickness is 62 mil, which allows 2.4 mm RF launchers to be connected at the board edges.

The RF transmission lines are designed using a coplanar waveguide (CPWG) model, with a trace width of 16 mil and ground clearance of 6 mil to have a characteristic impedance of 50 Ω . For optimal RF and thermal grounding, as many through vias as possible are arranged around transmission lines and under the exposed pad of the package.

Thru calibration can be used to calibrate out the board loss effects from the ADRF5721-EVALZ evaluation board measurements to determine the device performance at the pins of the IC. Figure 28 shows the typical board loss (THRU) for the ADRF5721-EVALZ evaluation board at room temperature, the embedded insertion loss, and the de-embedded insertion loss for the ADRF5721.

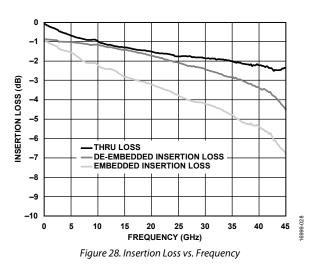


Figure 29 shows the actual ADRF5721-EVALZ evaluation board with component placement.

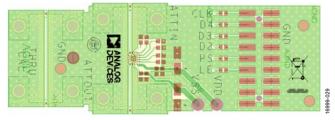


Figure 29. Evaluation Board Layout, Top View

Two power supply ports are connected to the VDD and VSS test points, TP1 and TP2, and the ground reference is connected to the GND test point, TP4. On the supply traces, VDD and VSS, use a 100 pF bypass capacitor to filter high frequency noise. Additionally, unpopulated components positions are available for applying extra bypass capacitors.

All the digital control pins are connected through digital signal traces to the 2×9 -pin header, P1. There are provisions for a resistor capacitor (RC) filter that helps eliminate dc-coupled noise. The ADRF5721 was evaluated without an external RC filter, the series resistors are 0 Ω , and shunt capacitors are unpopulated on the evaluation board.

The RF input and output ports (ATTIN and ATTOUT) are connected through 50 Ω transmission lines to the 2.4 mm RF launchers, J1 and J2, respectively. These high frequency RF launchers are connected by contact and are not soldered onto the board.

A thru calibration line connects the unpopulated J3 and J4 launchers. This transmission line is used to estimate the loss of the PCB over the environmental conditions being evaluated.

The schematic of the ADRF5721-EVALZ evaluation board is shown in Figure 30.

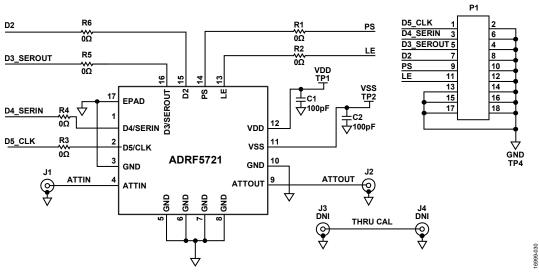


Figure 30. Evaluation Board Schematic

Table 8. Evaluation Board Components

Component	Default Value	Description
C1, C2	100 pF	Capacitors, C0402 package
J1, J2	Not applicable	2.4 mm end launch connectors (Southwest Microwave: 1492-04A-6)
P1	Not applicable	2×9 -pin header
R1 to R6	0Ω	Resistors, 0402 package
TP1, TP2, TP4	Not applicable	Through hole mount test points
U1	ADRF5721	ADRF5721 digital attenuator, Analog Devices, Inc.

Data Sheet

PROBE MATRIX BOARD

The probe matrix board is a 4-layer board. Similar to the evaluation board, the probe matrix board also uses a 12 mil Rogers RO4003 dielectric. The top and bottom copper layers are 0.5 oz (0.7 mil) plated to 1.5 oz (2.2 mil). The RF transmission lines are designed using a CPWG model with a width of 16 mil and ground spacing of 6 mil to have a characteristic impedance of 50 Ω .

Figure 31 and Figure 32 show the cross sectional view and the top view of the board, respectively. Measurements are made using GSG probes at close proximity to the RF pins (ATTIN and ATTOUT). Unlike the evaluation board, probing reduces reflections caused by mismatch arising from connectors, cables, and board layout, resulting in a more accurate measurement of the device performance.

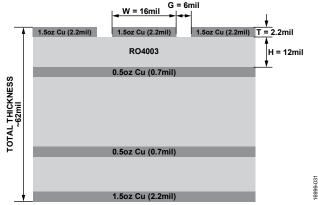


Figure 31. Probe Matrix Board (Cross Sectional View)

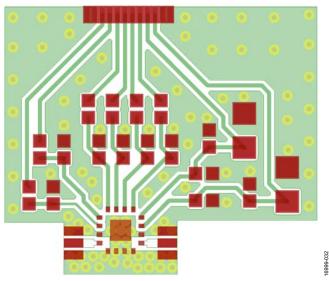


Figure 32. Probe Matrix Board Layout (Top View)

The probe matrix board includes a thru reflect line (TRL) calibration kit, allowing board loss de-embedding. The actual board duplicates the same layout in matrix form to assemble multiple devices at one time. Figure 33 is a detailed image of the trace to pin transition with corresponding dimensions. All S parameters were measured on this board.

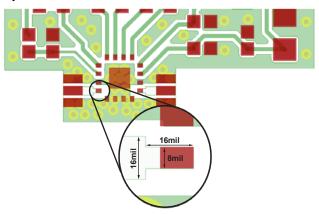
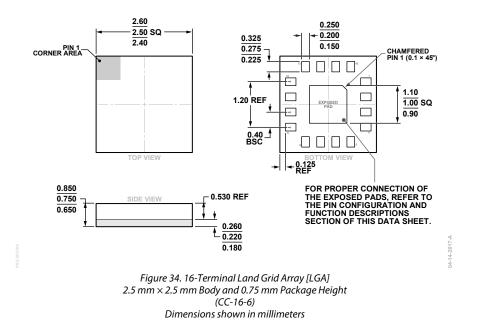


Figure 33. Probe Board Layout Dimensions (Top View)

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PACKAGING AND ORDERING INFORMATION OUTLINE DIMENSIONS



ORDERING GUIDE

Model ¹	Temperature Range	Package Description	Package Option	Marking Code
ADRF5721BCCZN	-40°C to +105°C	16-Terminal Land Grid Array [LGA]	CC-16-6	21
ADRF5721BCCZN-R7	-40°C to +105°C	16-Terminal Land Grid Array [LGA]	CC-16-6	21
ADRF5721-EVALZ		Evaluation Board		

¹ Z = RoHS Compliant Part.

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