DESIGNATION

C1

C2

C3

GND, VCC

MAX2209 Evaluation Kit

Features

- ◆ 2.7V to 5V Single-Supply Operation
- **50**Ω SMA Connector on RF Input
- Fully Assembled and Tested

Ordering Information

PART	ТҮРЕ	
MAX2209EVKIT+	EV Kit	

+Denotes lead(Pb)-free and RoHS compliant.

Component List

DESIGNATION	QTY	DESCRIPTION
ROUT	1	1k Ω ±5% resistor (0402)
SMA	1	SMA edge-mount connector, 0.062in EF Johnson 142-0701-851
T1	1	1-pin header
U1	1	RF power detector (4 UCSP™) Maxim MAX2209EBS+
_	1	PCB: MAX2209 EVALUATION KIT+

Comp	onent	Sunn	liers

SUPPLIER	PHONE	WEBSITE	
AVX Corporation	843-946-0238	www.avx.com	
Murata Electronics North America, Inc.	770-436-1300	www.murata-northamerica.com	

Note: Indicate that you are using the MAX2209 when contacting these component suppliers.

General Description

DESCRIPTION

Murata GRM155R71C104K 0.01µF ±10% ceramic

Murata GRM155R71C103K 22µF electrolytic capacitor

2-pin headers, 0.1in centers

0.1µF ±10% ceramic

capacitor (0402)

capacitor (0402)

AVX TAJB226K010

(B case)

The MAX2209 evaluation kit (EV kit) simplifies the evalu-

ation of the MAX2209 RF power detector. It enables test-

ing of all functions, with no additional support circuitry.

The RF input utilizes a 50Ω SMA connector for conve-

nient connection to test equipment.

QTY

1

1

1

2

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es Evaluates: MAX22

For pricing, delivery, and ordering information, please contact Maxim Direct at 1-888-629-4642, or visit Maxim's website at www.maxim-ic.com.

MAX2209 Evaluation Kit

Required Equipment

- Signal generator capable of delivering continuouswave (CW) signals with -5dBm output power
- Power meter to accurately measure the power into the RF input
- Power supply capable of up to 10mA at 2.7V to 5V
- Digital multimeters (DMMs) to measure output voltage and supply and output current

Connections and Setup

The MAX2209 EV kit is fully assembled and tested. This section provides a step-by-step guide to operating the MAX2209 EV kit and testing the device's functionality. Caution: Do not turn on the DC power supply or the RF signal generator until all connections are completed.

- 1) Connect a DC power supply set to 2.85V (through a DMM, if desired) to the V_{CC} and GND terminals on the EV kit. If available, set the current limit to 10mA. Do not turn on the power supply.
- 2) Connect the output (T1) to a DMM to measure output voltage.
- 3) Set the signal generator output to -5 dBm, f = 800MHz. Using the power meter, determine the actual power output of the signal generator. Use this value to determine proper operation of the part.
- 4) Connect the signal generator to the SMA connector. Do not turn on the signal generator.
- 5) Turn on the DC power supply; the supply current should read approximately 3.5mA.
- 6) Activate the signal generator. The output voltage should read approximately 0.9V.

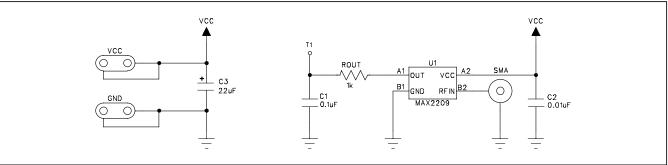


Figure 1. MAX2209 EV Kit Schematic

Evaluates: MAX2209

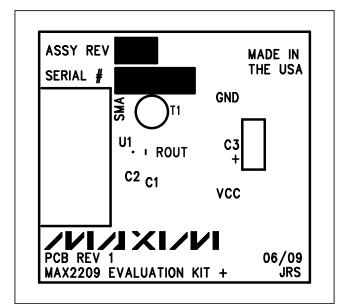


Figure 2. MAX2209 EV Kit Component Placement Guide—Top Silkscreen



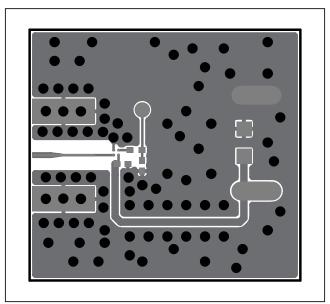


Figure 3. MAX2209 EV Kit Component Placement Guide— Component Side

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Maxim Integrated Products, 120 San Gabriel Drive, Sunnyvale, CA 94086 408-737-7600 _

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