

EVALUATION KIT  
AVAILABLE

## 300MHz to 2500MHz SiGe Ultra-Low-Noise Amplifiers

MAX2640/MAX2641

### General Description

The MAX2640/MAX2641 are low-cost, ultra-low-noise amplifiers designed for applications in the cellular, PCS, GPS, and 2.4GHz ISM frequency bands. Operating from a single +2.7V to +5.5V supply, these devices consume only 3.5mA of current while providing a low noise figure, high gain, high input IP3, and an operating frequency range that extends from 300MHz to 2500MHz.

The MAX2640 is optimized for 300MHz to 1500MHz applications, with a typical performance of 15.1dB gain, input IP3 of -10dBm, and a noise figure of 0.9dB at 900MHz. The MAX2641 is optimized for 1400MHz to 2500MHz applications, with a typical performance of 14.4dB gain, an input IP3 of -4dBm, and a noise figure of 1.3dB at 1900MHz.

These devices are internally biased, eliminating the need for external bias resistors and chokes. In a typical application, the only external components needed are a two-element input match, input and output blocking capacitors, and a VCC bypass capacitor.

The MAX2640/MAX2641 are designed on a high-frequency, low-noise, advanced silicon-germanium process and are offered in the space-saving 6-pin SOT23 package.

### Applications

315MHz/400MHz/900MHz/2.4GHz ISM Radios  
Cellular/PCS Handsets  
GPS Receivers  
Cordless Phones  
Wireless LANs  
Wireless Data  
Automotive RKE

### Features

- ♦ **Wide Operating Frequency Range**  
MAX2640: 300MHz to 1500MHz  
MAX2641: 1400MHz to 2500MHz
- ♦ **Low Noise Figure**  
MAX2640: 0.9dB at 900MHz  
MAX2641: 1.2dB at 1575MHz  
1.3dB at 1900MHz  
1.5dB at 2450MHz
- ♦ **High Gain**  
MAX2640: 15.1dB at 900MHz  
MAX2641: 15.7dB at 1575MHz  
14.4dB at 1900MHz  
13.5dB at 2450MHz
- ♦ **High Reverse Isolation**  
MAX2640: 40dB at 900MHz  
MAX2641: 31dB at 1575MHz  
30dB at 1900MHz  
24dB at 2450MHz
- ♦ **+2.7V to +5.5V Single-Supply Operation**
- ♦ **Low 3.5mA Supply Current**
- ♦ **Ultra-Small SOT23-6 Package**

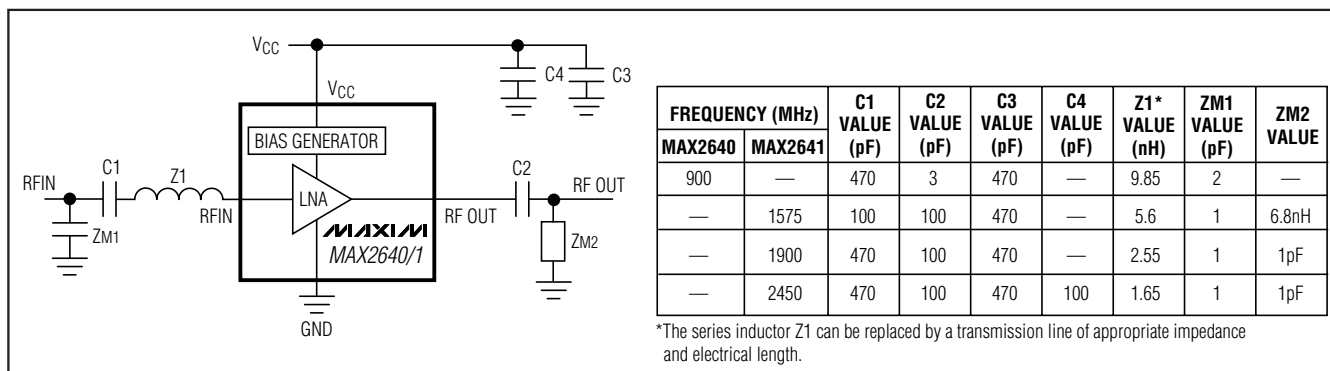
### Ordering Information

| PART         | TEMP RANGE      | PIN-PACKAGE | SOT TOP MARK |
|--------------|-----------------|-------------|--------------|
| MAX2640EUT-T | -40°C to +85°C  | 6 SOT23-6   | AAAV         |
| MAX2640EUT+T | -40°C to +85°C  | 6 SOT23-6   | AAAV         |
| MAX2640AUT+T | -40°C to +125°C | 6 SOT23-6   | AAAV         |
| MAX2641EUT-T | -40°C to +85°C  | 6 SOT23-6   | AAAW         |
| MAX2641EUT+T | -40°C to +125°C | 6 SOT23-6   | AAAW         |

+ Indicates lead-free package.

Pin Configuration appears at end of data sheet.

### Typical Operating Circuits



Maxim Integrated Products 1

For pricing, delivery, and ordering information, please contact Maxim/Dallas Direct! at 1-888-629-4642, or visit Maxim's website at [www.maxim-ic.com](http://www.maxim-ic.com).

# 300MHz to 2500MHz SiGe Ultra-Low-Noise Amplifiers

## ABSOLUTE MAXIMUM RATINGS

V<sub>CC</sub> to GND .....-0.3V to +6V  
 RFIN Power (50Ω source) (Note 1) .....+5dBm  
 Continuous Power Dissipation (T<sub>A</sub> = +70°C)  
     SOT23-6 (derate 8.7mW/°C above +70°C).....696mW

Operating Temperature Range  
 MAX2640EUT/MAX2641EUT .....-40°C to +85°C  
 MAX2640AUT .....-40°C to +125°C  
 Storage Temperature Range .....-65°C to +160°C  
 Lead Temperature (soldering, 10s) .....+300°C

Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

**Note 1:** Pin must be AC-coupled with a DC blocking capacitor.



**CAUTION!** ESD SENSITIVE DEVICE

## DC ELECTRICAL CHARACTERISTICS

(V<sub>CC</sub> = +2.7V to +5.5V, T<sub>A</sub> = -40°C to +85°C (MAX2640EUT/MAX2641EUT), T<sub>A</sub> = -40°C to +125°C (MAX2640AUT), unless otherwise noted. Typical values are at V<sub>CC</sub> = +3.0V, T<sub>A</sub> = +25°C.) Limits at T<sub>A</sub> = +25°C are guaranteed by production test. Limits over temperature are guaranteed by design and characterization.

| PARAMETER                | CONDITIONS                                                 | MIN | TYP | MAX | UNITS |
|--------------------------|------------------------------------------------------------|-----|-----|-----|-------|
| Operating Supply Voltage |                                                            | 2.7 |     | 5.5 | V     |
| Operating Supply Current | T <sub>A</sub> = +25°C                                     |     | 3.5 | 4.7 | mA    |
|                          | T <sub>A</sub> = -40°C to +85°C<br>(MAX2640EUT/MAX2641EUT) |     |     | 6.4 |       |
|                          | T <sub>A</sub> = -40°C to +125°C (MAX2640AUT)              |     |     | 7.8 |       |

## RF ELECTRICAL CHARACTERISTICS

(V<sub>CC</sub> = +3.0V, P<sub>RFIN</sub> = -34dBm, Z<sub>O</sub> = 50Ω, T<sub>A</sub> = +25°C, unless otherwise noted.) (Notes 2 and 3)

| PARAMETER                                   | CONDITIONS                                            | MIN  | TYP  | MAX  | UNITS |
|---------------------------------------------|-------------------------------------------------------|------|------|------|-------|
| <b>MAX2640 (f<sub>RFIN</sub> = 900MHz)</b>  |                                                       |      |      |      |       |
| RFIN Frequency Range                        |                                                       | 300  |      | 1500 | MHz   |
| Gain                                        |                                                       | 12.8 | 15.1 |      | dB    |
| Gain Variation Over Temperature             | T <sub>A</sub> = -40°C to +85°C (MAX2640EUT)          |      | 0.6  | 1.7  | dB    |
|                                             | T <sub>A</sub> = -40°C to +125°C (MAX2640AUT)         |      | 0.9  | 2.5  |       |
| Noise Figure                                | (Note 4)                                              |      | 0.9  | 1.1  | dB    |
| Input Return Loss                           |                                                       |      | -11  |      | dB    |
| Output Return Loss                          |                                                       |      | -14  |      | dB    |
| Reverse Isolation                           |                                                       |      | 40   |      | dB    |
| Input 1dB Gain Compression Point            |                                                       |      | -22  |      | dBm   |
| Input Third-Order Intercept Point           | (Note 5)                                              |      | -10  |      | dBm   |
| <b>MAX2641 (f<sub>RFIN</sub> = 1900MHz)</b> |                                                       |      |      |      |       |
| RFIN Frequency Range                        |                                                       | 1400 |      | 2500 | MHz   |
| Gain                                        |                                                       | 12.4 | 14.4 |      | dB    |
| Gain Variation Over Temperature             | T <sub>A</sub> = T <sub>MIN</sub> to T <sub>MAX</sub> |      | 0.9  | 2.4  | dB    |
| Noise Figure                                | (Note 4)                                              |      | 1.3  | 1.5  | dB    |
| Input Return Loss                           |                                                       |      | -12  |      | dB    |
| Output Return Loss                          |                                                       |      | -12  |      | dB    |
| Reverse Isolation                           |                                                       |      | 30   |      | dB    |
| Input 1dB Gain Compression Point            |                                                       |      | -21  |      | dBm   |
| Input Third-Order Intercept Point           | (Note 6)                                              |      | -4   |      | dBm   |

# 300MHz to 2500MHz SiGe Ultra-Low-Noise Amplifiers

MAX2640/MAX2641

## RF ELECTRICAL CHARACTERISTICS (continued)

( $V_{CC} = +3.0V$ ,  $PR_{FIN} = -34dBm$ ,  $Z_O = 50\Omega$ ,  $T_A = +25^\circ C$ , unless otherwise noted.) (Notes 2 and 3)

| PARAMETER                                        | CONDITIONS | MIN | TYP  | MAX | UNITS |
|--------------------------------------------------|------------|-----|------|-----|-------|
| <b>MAX2641 (<math>f_{RFIN} = 1575MHz</math>)</b> |            |     |      |     |       |
| Gain                                             |            |     | 15.7 |     | dB    |
| Noise Figure                                     | (Note 4)   |     | 1.2  |     | dB    |
| Input Return Loss                                |            |     | -8   |     | dB    |
| Output Return Loss                               |            |     | -15  |     | dB    |
| Reverse Isolation                                |            |     | -31  |     | dB    |
| Input 1dB Gain Compression Point                 |            |     | -21  |     | dBm   |
| Input Third-Order Intercept Point                | (Note 7)   |     | +1.4 |     | dBm   |
| <b>MAX2641 (<math>f_{RFIN} = 2450MHz</math>)</b> |            |     |      |     |       |
| Gain                                             |            |     | 13.5 |     | dB    |
| Noise Figure                                     | (Note 4)   |     | 1.5  |     | dB    |
| Input Return Loss                                |            |     | -10  |     | dB    |
| Output Return Loss                               |            |     | -11  |     | dB    |
| Reverse Isolation                                |            |     | -24  |     | dB    |
| Input 1dB Gain Compression Point                 |            |     | -19  |     | dBm   |
| Input Third-Order Intercept Point                | (Note 8)   |     | -2.5 |     | dBm   |

**Note 2:** Guaranteed by design and characterization.

**Note 3:** Measured using typical operating circuit. Input and output impedance matching networks were optimized for best simultaneous gain and noise-figure performance.

**Note 4:** External component and circuit losses degrade noise-figure performance. Specification excludes external component and circuit board losses.

**Note 5:** Measured with two input tones,  $f_1 = 899MHz$ ,  $f_2 = 901MHz$ , both at  $-34dBm$  per tone.

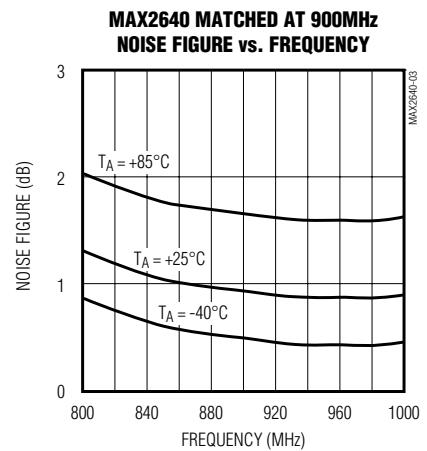
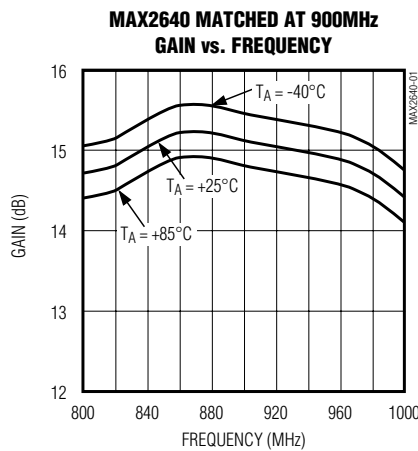
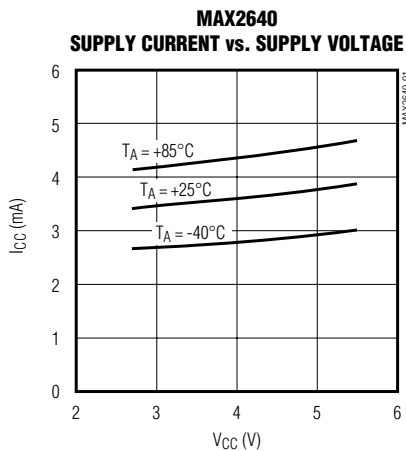
**Note 6:** Measured with two input tones,  $f_1 = 1899MHz$ ,  $f_2 = 1901MHz$ , both at  $-34dBm$  per tone.

**Note 7:** Measured with two input tones,  $f_1 = 1574MHz$ ,  $f_2 = 1576MHz$ , both at  $-34dBm$  per tone.

**Note 8:** Measured with two input tones,  $f_1 = 2449MHz$ ,  $f_2 = 2451MHz$ , both at  $-34dBm$  per tone.

## Typical Operating Characteristics

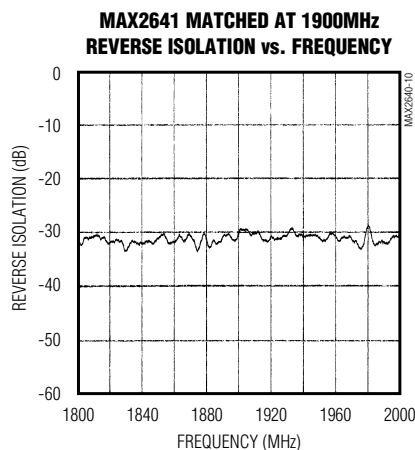
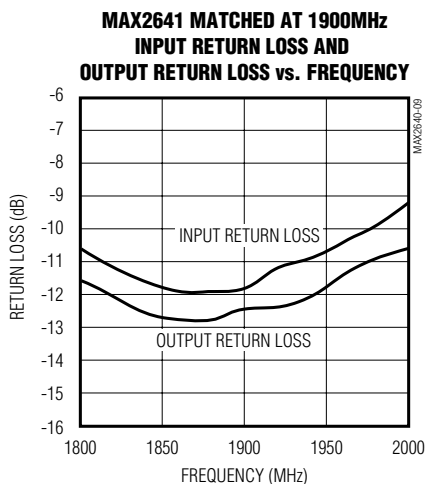
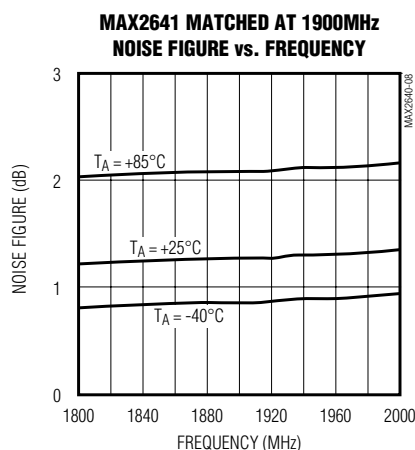
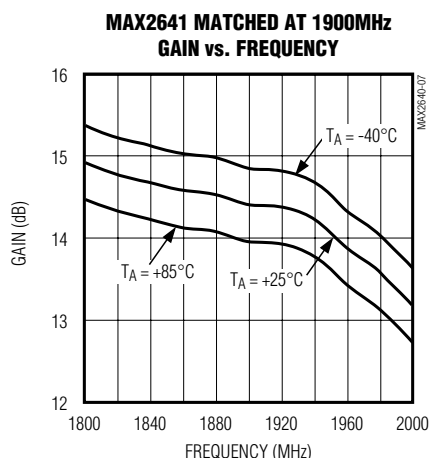
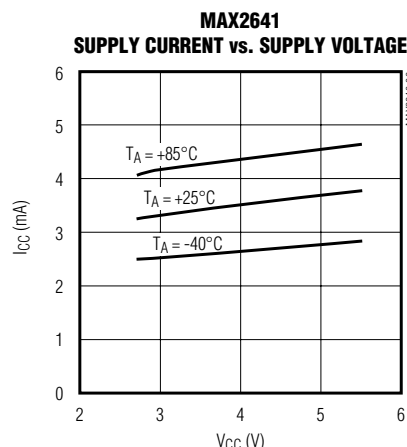
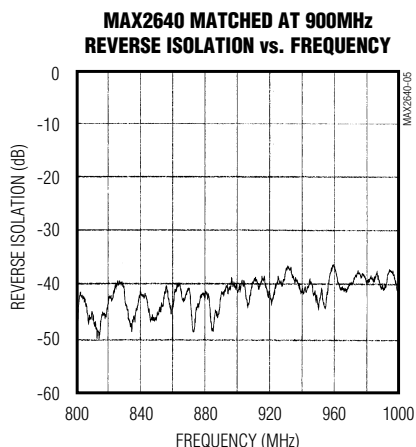
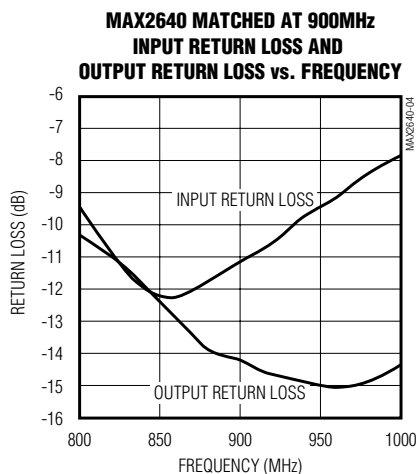
( $V_{CC} = +3V$ ,  $PR_{FIN} = -34dBm$ , Typical Operating Circuits,  $T_A = +25^\circ C$ , unless otherwise noted.)



# 300MHz to 2500MHz SiGe Ultra-Low-Noise Amplifiers

## Typical Operating Characteristics (continued)

( $V_{CC} = +3V$ ,  $PR_{FIN} = -34dBm$ , Typical Operating Circuits,  $T_A = +25^\circ C$ , unless otherwise noted.)



# 300MHz to 2500MHz SiGe Ultra-Low-Noise Amplifiers

## Pin Description

| PIN     | NAME            | FUNCTION                                                                                                                                                                                                                                                      |
|---------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | RFIN            | Amplifier Input. AC-couple to this pin with a DC blocking capacitor. Use recommended input matching network (see <i>Typical Operating Circuit</i> ).                                                                                                          |
| 2, 3, 5 | GND             | Ground. For optimum performance, provide a low inductance connection to the ground plane.                                                                                                                                                                     |
| 4       | RFOUT           | Amplifier Output. Use the recommended series blocking or matching capacitor (see <i>Typical Operating Circuit</i> ).                                                                                                                                          |
| 6       | V <sub>CC</sub> | Supply Voltage. Bypass to ground directly at the supply pin. The value of the bypass capacitor is determined by the lowest operating frequency. Additional bypassing may be necessary for long V <sub>CC</sub> lines (see <i>Typical Operating Circuit</i> ). |

## Detailed Description

The MAX2640 and MAX2641 are ultra-low-noise amplifiers that operate with RF input frequency ranges of 300MHz to 1500MHz (MAX2640) or 1400MHz to 2500MHz (MAX2641). These devices are available in SOT23-6 packages and contain internal bias circuitry to minimize the number of required external components. Their small size and low external component count make them ideal for applications where board space is limited.

## Applications Information

### External Matching Components

The MAX2640/MAX2641 are easy to use, generally requiring only five external components as shown in the *Typical Operating Circuit*. To reduce external component count further, replace external inductors with microstrip transmission lines. The high reverse isolation allows the tuning of the input matching network without affecting the output match, and vice versa. Select input and output matching networks to obtain the desired combination of gain, noise figure, and return loss performance. The *Typical Operating Circuits* show the recommended input and output matching networks for the MAX2640/MAX2641 at 900MHz and 1900MHz, respectively. These values are optimized for best simultaneous gain, noise figure, and return loss performance. To aid in the design of matching networks for other frequencies, Tables 1 and 2 list typical device S-parameters and Tables 3 and 4 list typical device noise parameters.

MAX2640/MAX2641

## 300MHz to 2500MHz SiGe Ultra-Low-Noise Amplifiers

Table 1. MAX2640 Typical Scattering Parameters at  $V_{CC} = +3V$ ,  $T_A = +25^{\circ}C$

| FREQUENCY<br>(MHz) | S11<br>MAG | PHASE  | S21<br>MAG | PHASE  | S12<br>MAG | PHASE | S22<br>MAG | PHASE |
|--------------------|------------|--------|------------|--------|------------|-------|------------|-------|
| 400                | 0.907      | -35.1  | 4.62       | 109.1  | 0.001      | 13.5  | 0.302      | 108.4 |
| 500                | 0.882      | -43.1  | 4.70       | 90.4   | 0.001      | 64.7  | 0.33       | 93.6  |
| 600                | 0.858      | -50.8  | 4.76       | 70.7   | 0.001      | 55.2  | 0.352      | 81.5  |
| 700                | 0.832      | -58.1  | 4.80       | 50.6   | 0.002      | 39.4  | 0.365      | 69.4  |
| 800                | 0.810      | -64.9  | 4.85       | 29.5   | 0.004      | 64.2  | 0.384      | 56.8  |
| 900                | 0.788      | -71.0  | 4.77       | 9.2    | 0.005      | 36.3  | 0.396      | 44.7  |
| 1000               | 0.771      | -76.6  | 4.74       | -12.0  | 0.007      | 28.0  | 0.412      | 33.5  |
| 1100               | 0.749      | -82.3  | 4.55       | -32.4  | 0.010      | 12.3  | 0.436      | 21.9  |
| 1200               | 0.735      | -88.0  | 4.48       | -53.4  | 0.013      | -10.6 | 0.455      | 10.7  |
| 1300               | 0.720      | -93.4  | 4.24       | -75.9  | 0.015      | -28.2 | 0.469      | -0.2  |
| 1400               | 0.702      | -98.8  | 4.17       | -94.9  | 0.021      | -42.9 | 0.482      | -9.9  |
| 1500               | 0.688      | -104.9 | 3.81       | -117.5 | 0.024      | -59.8 | 0.489      | -20.2 |

Table 2. MAX2641 Typical Scattering Parameters at  $V_{CC} = +3V$ ,  $T_A = +25^{\circ}C$

| FREQUENCY<br>(MHz) | S11<br>MAG | PHASE  | S21<br>MAG | PHASE  | S12<br>MAG | PHASE  | S22<br>MAG | PHASE |
|--------------------|------------|--------|------------|--------|------------|--------|------------|-------|
| 1500               | 0.734      | -75.5  | 4.397      | -90.5  | 0.013      | -80.3  | 0.535      | 17.7  |
| 1600               | 0.717      | -80.3  | 4.209      | -109.8 | 0.016      | -91.9  | 0.514      | 8.6   |
| 1700               | 0.695      | -85.3  | 4.193      | -131.6 | 0.018      | -116.5 | 0.513      | -0.5  |
| 1800               | 0.678      | -90.6  | 3.876      | -150.0 | 0.021      | -128.7 | 0.510      | -10.6 |
| 1900               | 0.661      | -96.6  | 3.801      | -173.5 | 0.023      | -150.6 | 0.493      | -21.6 |
| 2000               | 0.646      | -102.6 | 3.456      | 166.9  | 0.026      | -166.6 | 0.470      | -32.0 |
| 2100               | 0.632      | -108.8 | 3.302      | 146.4  | 0.028      | 171.7  | 0.431      | -43.4 |
| 2200               | 0.620      | -114.0 | 2.981      | 123.6  | 0.029      | 150.7  | 0.403      | -56.1 |
| 2300               | 0.610      | -119.4 | 2.781      | 105.3  | 0.033      | 132.2  | 0.374      | -69.4 |
| 2400               | 0.604      | -124.6 | 2.430      | 82.9   | 0.032      | 111.2  | 0.338      | -86.2 |
| 2500               | 0.603      | -128.4 | 2.118      | 64.7   | 0.030      | 95.7   | 0.316      | -98.3 |

## 300MHz to 2500MHz SiGe Ultra-Low-Noise Amplifiers

**Table 3. MAX2640 Typical Noise Parameters at  $V_{CC} = +3V$ ,  $T_A = +25^{\circ}C$**

| FREQUENCY (MHz) | $f_{MIN}$ (dB) | $ \Gamma_{opt} $ | $\Gamma_{opt}$ ANGLE | $R_N$ ( $\Omega$ ) |
|-----------------|----------------|------------------|----------------------|--------------------|
| 400             | 0.66           | 0.56             | 21                   | 12.5               |
| 500             | 0.69           | 0.54             | 25                   | 11.9               |
| 600             | 0.72           | 0.51             | 30                   | 11.3               |
| 700             | 0.75           | 0.48             | 35                   | 10.8               |
| 800             | 0.78           | 0.46             | 40                   | 10.2               |
| 900             | 0.82           | 0.43             | 45                   | 9.7                |
| 1000            | 0.85           | 0.40             | 50                   | 9.3                |
| 1100            | 0.89           | 0.37             | 56                   | 8.8                |
| 1200            | 0.93           | 0.35             | 62                   | 8.3                |
| 1300            | 0.97           | 0.32             | 68                   | 7.9                |
| 1400            | 1.01           | 0.29             | 77                   | 7.4                |
| 1500            | 1.06           | 0.26             | 84                   | 7.0                |

**Table 4. MAX2641 Typical Noise Parameters at  $V_{CC} = +3V$ ,  $T_A = +25^{\circ}C$**

| FREQUENCY (MHz) | $f_{MIN}$ (dB) | $ \Gamma_{opt} $ | $\Gamma_{opt}$ ANGLE | $R_N$ ( $\Omega$ ) |
|-----------------|----------------|------------------|----------------------|--------------------|
| 1500            | 1.02           | 0.43             | 44                   | 12.4               |
| 1600            | 1.05           | 0.40             | 47                   | 11.8               |
| 1700            | 1.08           | 0.38             | 50                   | 11.3               |
| 1800            | 1.10           | 0.36             | 54                   | 10.8               |
| 1900            | 1.14           | 0.32             | 58                   | 10.3               |
| 2000            | 1.17           | 0.30             | 62                   | 9.9                |
| 2100            | 1.20           | 0.28             | 66                   | 9.4                |
| 2200            | 1.23           | 0.25             | 71                   | 9.0                |
| 2300            | 1.27           | 0.22             | 77                   | 8.6                |
| 2400            | 1.30           | 0.19             | 82                   | 8.3                |
| 2500            | 1.34           | 0.17             | 91                   | 8.0                |

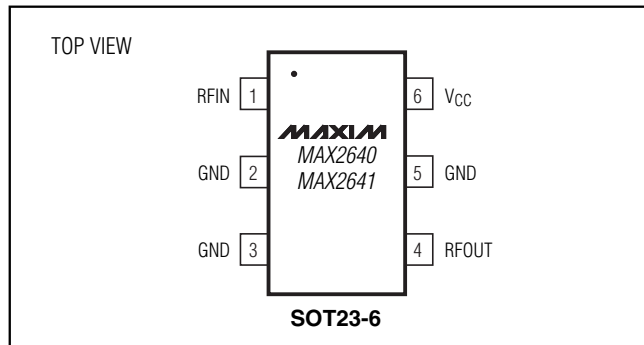
### **Layout and Power-Supply Bypassing**

A properly designed PC board is essential to any RF/microwave circuit. Be sure to use controlled impedance lines on all high-frequency inputs and outputs. The power supply should be bypassed with decoupling capacitors located close to the device  $V_{CC}$  pins. For long  $V_{CC}$  lines, it may be necessary to add additional decoupling capacitors. These additional capacitors can be located further away from the device package.

Proper grounding of the GND pins is essential. If the PC board uses a topside RF ground, connect it directly to all GND pins. For a board where the ground plane is not on the component side, the best technique is to connect the GND pin to the board with a plated through-hole close to the package.

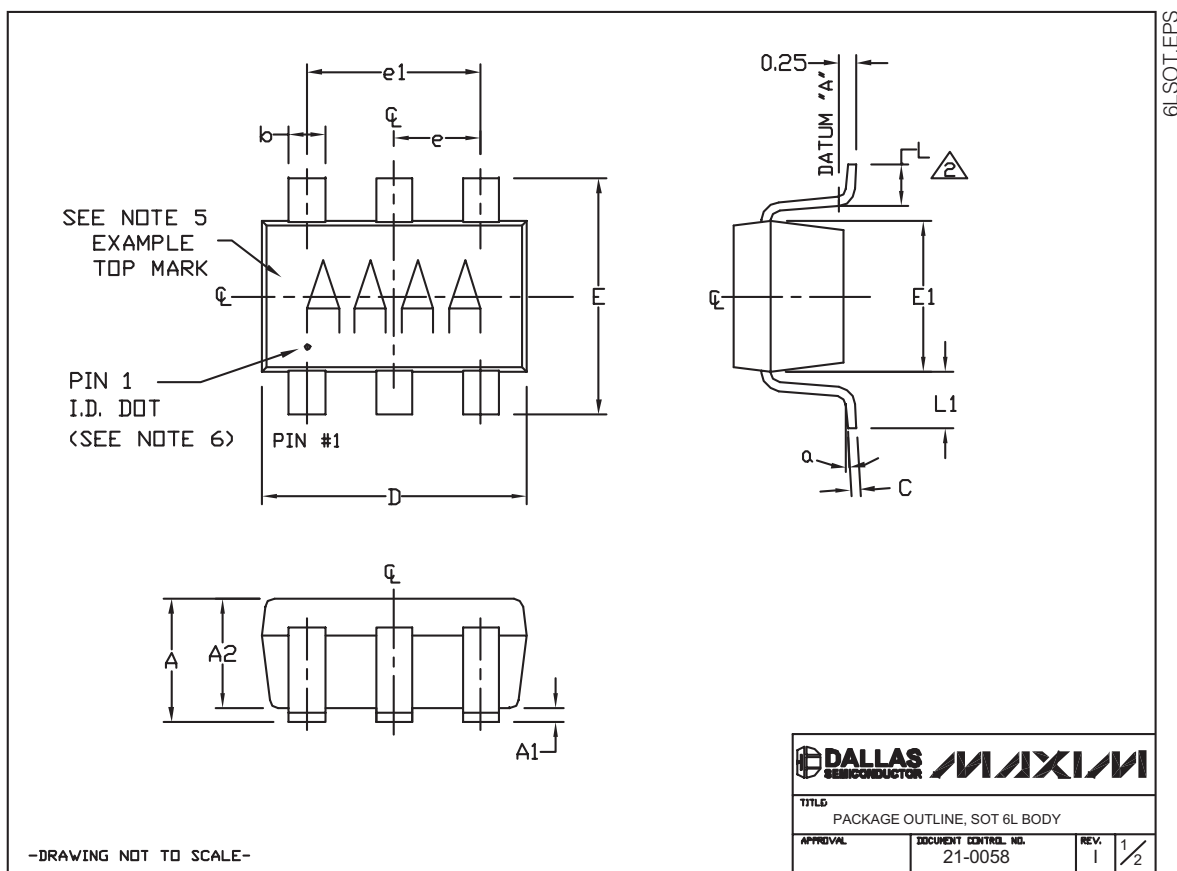
# 300MHz to 2500MHz SiGe Ultra-Low-Noise Amplifiers

## Pin Configuration



## Package Information

(The package drawing(s) in this data sheet may not reflect the most current specifications. For the latest package outline information, go to [www.maxim-ic.com/packages](http://www.maxim-ic.com/packages).)





# 300MHz to 2500MHz SiGe Ultra-Low-Noise Amplifiers

## Package Information (continued)

(The package drawing(s) in this data sheet may not reflect the most current specifications. For the latest package outline information, go to [www.maxim-ic.com/packages](http://www.maxim-ic.com/packages).)

### NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS.
- FOOT LENGTH MEASURED AT INTERCEPT POINT BETWEEN DATUM A & LEAD SURFACE.
- PACKAGE OUTLINE EXCLUSIVE OF MOLD FLASH & METAL BURR. MOLD FLASH, PROTRUSION OR METAL BURR SHOULD NOT EXCEED 0.25mm.
- PACKAGE OUTLINE INCLUSIVE OF SOLDER PLATING.
- PIN 1 IS LOWER LEFT PIN WHEN READING TOP MARK FROM LEFT TO RIGHT. (SEE EXAMPLE TOP MARK)
- PIN 1 I.D. DOT IS 0.3mm Ø MIN. LOCATED ABOVE PIN 1.
- MEETS JEDEC MO178, VARIATION AB.
- SOLDER THICKNESS MEASURED AT FLAT SECTION OF LEAD BETWEEN 0.08mm AND 0.15mm FROM LEAD TIP.
- LEAD TO BE COPLANAR WITHIN 0.1mm.
- NUMBER OF LEADS SHOWN ARE FOR REFERENCE ONLY.
- MARKING IS FOR PACKAGE ORIENTATION REFERENCE ONLY.

| SYMBOL | MIN  | NOMINAL   | MAX  |
|--------|------|-----------|------|
| A      | 0.90 | 1.25      | 1.45 |
| A1     | 0.00 | 0.05      | 0.15 |
| A2     | 0.90 | 1.10      | 1.30 |
| b      | 0.35 | 0.40      | 0.50 |
| C      | 0.08 | 0.15      | 0.20 |
| D      | 2.80 | 2.90      | 3.00 |
| E      | 2.60 | 2.80      | 3.00 |
| E1     | 1.50 | 1.625     | 1.75 |
| L      | 0.35 | 0.45      | 0.60 |
| L1     |      | 0.60 REF. |      |
| e1     |      | 1.90 BSC. |      |
| e      |      | 0.95 BSC. |      |
| α      | 0°   | 2.5°      | 10°  |

PKG CODES:  
U6-1, U6-2, U6-4, U6C-8,  
U6SN-1, U6CN-2, U6S-3, U6F-5,  
U6F-6, U6FH-5, U6FH-6

-DRAWING NOT TO SCALE-

|                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |
| TITLE<br>PACKAGE OUTLINE, SOT 6L BODY                                                 |                                                                                       |
| APPROVAL                                                                              | DOCUMENT CONTROL NO.<br>21-0058                                                       |
| REV.<br>1                                                                             | 2/2                                                                                   |

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