

**PRODUCT SUMMARY**

# SKY65702-11: Low-Noise Amplifier Front-End Module with GPS/GNSS Pre-Filter

**Applications**

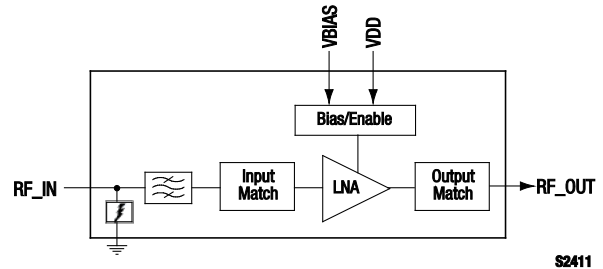
- GPS/GNSS radio receivers

**Features**

- Small signal gain: 13.5 dB typical
- Low Noise Figure: 1.8 dB typical
- IP1dB: -5.6 dBm
- Low current consumption
- Input/output impedance internally matched to 50 Ω
- Single DC supply: 1.8 to 3.6 V
- Minimal number of external components required
- Small, MCM (8-pin, 2.5 x 2.0 mm) package (MSL3, 260 °C per JEDEC J-STD-020)



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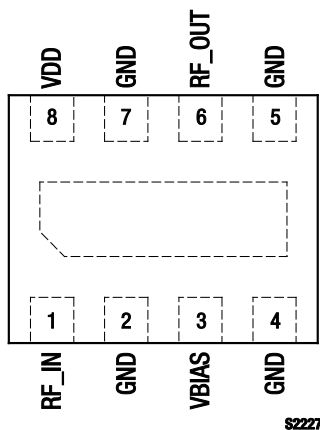
**Figure 1. SKY65702-11 Block Diagram**

**Description**

The SKY65702-11 is a Front-End Module (FEM) with an integrated Low Noise Amplifier (LNA) and pre-filter designed for Global Positioning System/Global Navigation Satellite System (GPS/GNSS) receiver applications. The device provides high linearity, excellent gain, a high 1 dB Input Compression Point (IP1dB), and a superior Noise Figure (NF).

The LNA is fabricated using advanced GaAs pHEMT technology. The GPS pre-filter provides the low in-band insertion loss and excellent rejections for the cellular, PCS, and WLAN frequency bands. The SKY65702-11 uses Surface Mount Technology (SMT) in the form of a 2.5 x 2.0 mm Multi-Chip Module (MCM) package, which allows for a highly manufacturable and low-cost solution.

A functional block diagram is shown in Figure 1. The pin configuration and package are shown in Figure 2.



**Figure 2. SKY65702-11 Pinout – 8-Pin MCM (Top View)**

## Ordering Information

Model Name	Manufacturing Part Number	Evaluation Board Part Number
SKY65702-11 Low-Noise Amplifier FEM with GPS/GNSS Filter	SKY65702-11	TW18-D940

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