

#### PRODUCT SUMMARY

# SKY65715-81: Low-Noise Amplifier Front-End Module with GPS/GNSS/BDS Pre-Filter

## **Applications**

- . GPS/GNSS/BDS radio receivers
- Global Navigation Satellite Systems (GLONASS)

#### **Features**

- Wideband pre-filter
- Small signal gain: 16.5 dB typical
- High, out-of-band IP2 and IP3
- Low Noise Figure: 1.9 dB typical
- Low current consumption
- ullet Input/output impedance internally matched to 50  $\Omega$
- Single DC supply: 1.8 V to 3.6 V
- Minimal number of external components required
- Small, MCM (6-pin, 1.7 x 2.3 mm) package (MSL3, 260 °C per JEDEC J-STD-020)



Skyworks Green<sup>TM</sup> products are compliant with all applicable legislation and are halogen-free. For additional information, refer to *Skyworks Definition of Green*<sup>TM</sup>, document number S004-0074.

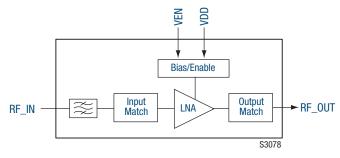


Figure 1. SKY65715-81 Block Diagram

## **Description**

The SKY65715-81 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/Beidou Navigation Satellite System (GPS/GNSS/BDS) receiver applications. The device provides high linearity, excellent gain, a high 1 dB Input Compression Point (IP1dB), and a superior noise figure (NF).

The pre-filter provides the low in-band insertion loss and integrated notch filtering for excellent rejections of the cellular, PCS, and WLAN frequency bands. The SKY65715-81 uses surface-mount technology (SMT) in the form of a 1.7 x 2.3 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.

## **Ordering Information**

Model Name	Manufacturing Part Number	Evaluation Board Part Number
SKY65715-81: Low-Noise Amplifier FEM with GPS/GNSS/BDS Filter	SKY65715-81	TW19-D510

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ИНН 7805602321 КПП 780501001 P/C 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 3010181090000000703 БИК 044030703

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