

PRODUCT SUMMARY

SKY13741: RX Diversity FEM with Gain (B3, B39, B1, B40, B41, and B7)

Applications

- Antenna cable loss compensation circuit for LTE data antenna
- 3G/4G multimode cellular tablets and handsets (LTE, UMTS, CDMA2000, EDGE, and GSM)
- · Embedded data cards

Features

- RX diversity FEM with six selectable filters and LNA paths, one Aux path and optional bypass mode
- Low insertion loss thru path
- Integrated SAW filter and discrete LNA gain stage
- SAW filters:
- B3 (1805 to 1880 MHz)
- B39 (1880 to 1920 MHz)
- B1 (2110 to 2170 MHz)
- B40 (2300 to 2400 MHz)
- B41 (2545 to 2655 MHz)
- B7 (2620 to 2690 MHz)
- Integrated MIPI interface
- Small (4 \times 3 \times 0.7 mm) 24-lead MCM package (MSL3, 260 °C per JEDEC J-STD-020)



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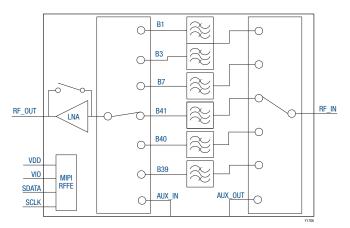


Figure 1. SKY13741 Block Diagram

Description

The SKY13741 is an LNA diversity module to be used in a cellular mobile device. It supports cellular diversity receiver and localization service receiver functions.

It is compatible with 3GPP GSM, WCDMA, LTE and LTE standards and supports the following service bands: B3, B39, B1, B40, B41, and B7 for the cellular part.

The SKY13741 is packaged in a small $4 \times 3 \times 0.7$ mm, 24-lead surface-mount package. No external DC blocking capacitors are required on the RF paths as long as no DC voltage is applied. The part can operate over the temperature range of -30° C to $+85^{\circ}$ C.

A functional block diagram is shown in Figure 1.

Ordering Information

Model Name	Manufacturing Part Number	Evaluation Board Part Number
SKY13741: RX Diversity FEM	SKY13741	TW22-D245-003

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