PRODUCT SUMMARY

SKY13746-21: RX Diversity FEM with Carrier Aggregation (B26, B8, B12/13, B2/25, B4, 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)
- Carrier aggregation (LB/MB/HB)
- Embedded data cards

Features
- RX diversity FEM with six selectable filters and LNA paths, and three Aux paths
- Integrated SAW filter and discrete LNA gain stage
- SAW filters:
  - B26 (859 to 894 MHz)
  - B8 (925 to 960 MHz)
  - B12/13 (729 to 756 MHz)
  - B2/25 (1930 to 1995 MHz)
  - B4 (2110 to 2155 MHz)
  - B7 (2620 to 2690 MHz)
- Integrated MIPI interface
- Small (3 × 5 × 0.7 mm) 29-lead MCM package (MSL3, 260 °C per JEDEC J-STD-020)

Skyworks Green™ products are compliant with all applicable legislation and are halogen-free.
For additional information, refer to Skyworks Definition of Green™, document number SQ04–0074.

Description
The SKY13746-21 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, and LTE standards and supports the following service bands: B26, B8, B12/13, B2/25, B4, and B7 for the cellular part.
The SKY13746-21 is packaged in a small 3 × 5 × 0.7 mm, 29-lead surface-mount package. The part is controlled by an integrated Mobile Industry Processor Interface (MIPI) decoder. There are separate control registers for independent control of low band, middle band, and high band. The part can operate over the temperature range of –30 °C to +85 °C.
A functional block diagram is shown in Figure 1.
## Ordering Information

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