

PRODUCT SUMMARY

SKY13740: RX Diversity FEM with Gain (B26, B8, B20, B1/4, B3, 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, three Aux paths and optional bypass mode
- · Low insertion loss thru path
- Integrated SAW filter and discrete LNA gain stage
- SAW filters:
 - B26 (859 to 894 MHz)
 - B8 (925 to 960 MHz)
 - B20 (791 to 821 MHz)
 - B1/4 (2110 to 2170 MHz)
 - B3 (1805 to 1880 MHz)
 - B7 (2620 to 2690 MHz)
- Integrated MIPI interface
- Small (5 \times 3 \times 0.8 mm) 23-lead MCM package (MSL3, 260 °C per JEDEC J-STD-020)



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

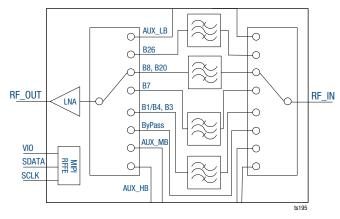


Figure 1. SKY13740 Block Diagram

Description

The SKY13740 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: B8, B20, B26, B1/4, B3, and B7 for the cellular part.

The SKY13740 is packaged in a small $5 \times 3 \times 0.8$ mm, 23-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
SKY13740: RX Diversity FEM	SKY13740	TW22-D225-001

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