

PRODUCT SUMMARY

SKY77602 Multi-Band, Multi-Mode (3G) Power Amplifier Module w/ PA Distribution Switch

APPLICATIONS

- WCDMA Data Application
- HSDPA
- HSUPA
- HSPA+
- CDMA2000

Features

- Low voltage application
 - 3.2 V~3.6 V
- Good linearity
- High efficiency
- Large dynamic range
- Small, low profile package
 - 5 mm x 7 mm x 0.85 mm
 - 22-pad configuration
- Power down control
- InGaP
- Supports low collector voltage operation
- Digital Enable, Band Select, Mode operation
- No regulated voltage required
- CMOS comparable logic control
- Integrated Directional Couplers

NEW Skyworks Green™ products are RoHS (Restriction of Hazardous Substances)-compliant, conform to the EIA/EICTA/JEITA Joint Industry Guide (JIG) Level A guidelines, are halogen free according to IEC-61249-2-21, and contain < 1,000 ppm antimony trioxide in polymeric materials.

Description

The SKY77602 Power Amplifier Module (PAM) is a fully matched, 22-pad, surface mount module developed for Wideband Code Division Multiple Access (WCDMA) and CDMA2000 applications. This small and efficient module packs full coverage for WCDMA Bands I, II, IV, V, and VIII, and for CDMA2000 Bands I, II, IV, and V into a single compact package. The SKY77602 meets the stringent spectral linearity requirements of WCDMA/CDMA2000 transmission, with high power added efficiency for power output to 28 dBm for Bands I, IV, V, 28.5 dBm for Band II, and 28.3 dBm for Band VIII. The SKY77602 meets the stringent spectral linearity requirements of High Speed Downlink Packet Access (HSDPA) data transmission with high power added efficiency. An integrated directional coupler eliminates the need for any external coupler.

The SKY77602 PAM is manufactured with Skyworks' InGaP GaAs Heterojunction Bipolar Transistor (HBT) BiFET process that provides for all positive voltage DC supply operation while maintaining high efficiency and good linearity. No regulated voltage is required. Power down is accomplished by setting the voltage on VEN_H or VEN_L to zero volts. No external supply side switch is needed as typical "off" leakage is a few microamperes with full primary voltage supplied from the battery.

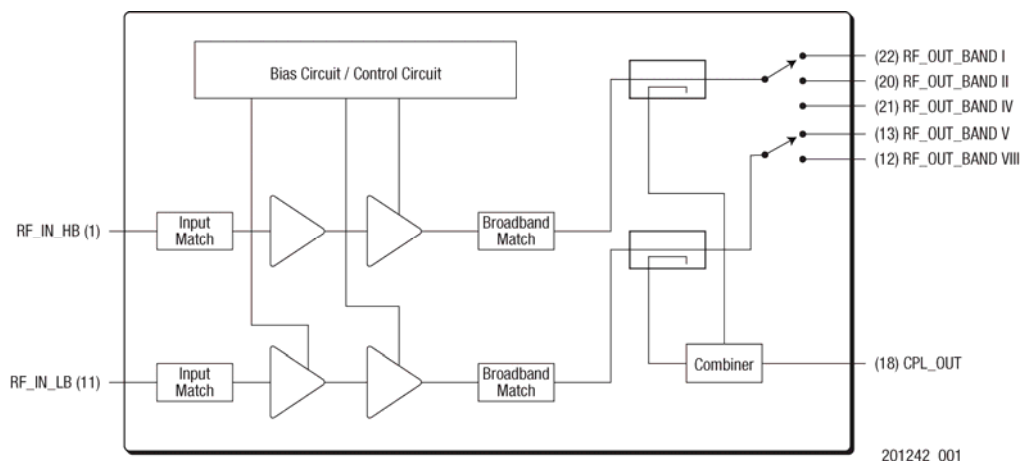
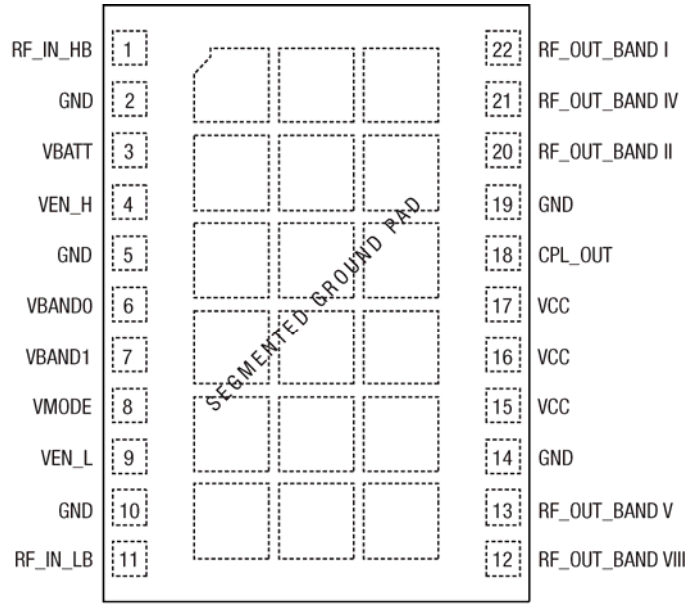


Figure 1. SKY77602 Functional Block Diagram



Pad layout as seen from Top View looking through the package.

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Figure 2. SKY77602 Pad Configuration

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