

PRODUCT SUMMARY

SKY77754-11 Power Amplifier Module for Penta-Band TD-SCDMA / TDD LTE – Bands 34, 38, 39, 40, 41

Applications

- TDD LTE Bands 38, 39, 40, 41
- TD-SCDMA Bands 34, 39

Features

- Supports APT operation
- Good Linearity
- High Efficiency
- Large Dynamic Range
- Small, low profile package
 - 5.0 mm x 3.5 mm x 0.9 mm
 - 26-pad configuration
- Power Down Control
- Supports Low Collector Voltage Operation
- Digital Enable, Mode Operation
- CMOS compatible Logic Control
- Highly integrated, user-friendly solution

Description

The SKY77754-11 Power Amplifier Module (PAM) is a fully matched, 26-pad surface mount (SMT) module developed for FDD LTE, TD-SCDMA, and TDD LTE applications. This small and efficient TD-SCDMA / TDD LTE PAM integrates three power amplifier Tx paths, input and output matching, and daisy-chained directional couplers into a single 5.0 mm x 3.5 mm x 0.9 mm package. SKY77754-11 meets the stringent spectral linearity requirements of TD-SCDMA / TDD LTE modulations with high power-added efficiency for power output to 28 dBm.

The SKY77754-11 PAM is manufactured with Skyworks' InGaP GaAs Heterojunction Bipolar Transistor (HBT) Bi-FET process that provides for all positive voltage DC supply operation while maintaining high efficiency and good linearity. No regulated voltage is required. No external supply side switch is needed as typical "off" leakage is a few microamperes with full primary voltage supplied from the battery. The SKY77754-11 Power Amplifier Module can save handset designers significant phone board space and design-cycle time.



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.

Ordering Information

Product Name	Order Number	Evaluation Board Part Number
SKY77754-11 Power Amplifier Module	SKY77754-11	EN21-D495-003 V1

Copyright © 2014, Skyworks Solutions, Inc. All Rights Reserved.

Information in this document is provided in connection with Skyworks Solutions, Inc. ("Skyworks") products or services. These materials, including the information contained herein, are provided by Skyworks as a service to its customers and may be used for informational purposes only by the customer. Skyworks assumes no responsibility for errors or omissions in these materials or the information contained herein. Skyworks may change its documentation, products, services, specifications or product descriptions at any time, without notice. Skyworks makes no commitment to update the materials or information and shall have no responsibility whatsoever for conflicts, incompatibilities, or other difficulties arising from any future changes.

No license, whether express, implied, by estoppel or otherwise, is granted to any intellectual property rights by this document. Skyworks assumes no liability for any materials, products or information provided hereunder, including the sale, distribution, reproduction or use of Skyworks products, information or materials, except as may be provided in Skyworks Terms and Conditions of Sale.

THE MATERIALS, PRODUCTS AND INFORMATION ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, WHETHER EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, INCLUDING FITNESS FOR PARTICULAR PURPOSE OR USE, MERCHANTABILITY, PERFORMANCE, QUALITY OR NON-INFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHT; ALL SUCH WARRANTIES ARE HEREBY EXPRESSLY DISCLAIMED. SKYWORKS DOES NOT WARRANT THE ACCURACY OR COMPLETENESS OF THE INFORMATION, TEXT, GRAPHICS OR OTHER ITEMS CONTAINED WITHIN THESE MATERIALS. SKYWORKS SHALL NOT BE LIABLE FOR ANY DAMAGES, INCLUDING BUT NOT LIMITED TO ANY SPECIAL, INDIRECT, INCIDENTAL, STATUTORY, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR LOST PROFITS THAT MAY RESULT FROM THE USE OF THE MATERIALS OR INFORMATION, WHETHER OR NOT THE RECIPIENT OF MATERIALS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Skyworks products are not intended for use in medical, lifesaving or life-sustaining applications, or other equipment in which the failure of the Skyworks products could lead to personal injury, death, physical or environmental damage. Skyworks customers using or selling Skyworks products for use in such applications do so at their own risk and agree to fully indemnify Skyworks for any damages resulting from such improper use or sale.

Customers are responsible for their products and applications using Skyworks products, which may deviate from published specifications as a result of design defects, errors, or operation of products outside of published parameters or design specifications. Customers should include design and operating safeguards to minimize these and other risks. Skyworks assumes no liability for applications assistance, customer product design, or damage to any equipment resulting from the use of Skyworks products outside of stated published specifications or parameters.

Skyworks, the Skyworks symbol, and "Breakthrough Simplicity" are trademarks or registered trademarks of Skyworks Solutions, Inc., in the United States and other countries. Third-party brands and names are for identification purposes only, and are the property of their respective owners. Additional information, including relevant terms and conditions, posted at www.skyworksin.com, are incorporated by reference.