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PRODUCT SUMMARY

SKY77753 Power Amplifier Module for Penta-Band FDD LTE / TD-SCDMA / TDD LTE - Bands 7, 34, 38, 39, 40, 41

Applications

- FDD LTE Band 7
- TDD LTE Bands 38, 39, 40, 41
- TD-SCDMA Bands 34, 39, 40

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

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Description

The SKY77753 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 FDD LTE/ TD-SCDMA/ TDD LTE PAM integrates three power amplifier Tx paths, input and output matching, input switching for bands 34 and 39, output switching for bands 38, 40, and 41, and daisy-chained directional couplers in a single 5.0 mm x 3.5 mm x 0.9 mm package. SKY77753 meets the stringent spectral linearity requirements of FDD LTE/ TD-SCDMA/ TDD LTE modulations with high power-added efficiency for power output to 28 dBm.

The SKY77753 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 SKY77753 Power Amplifier Module can save handset designers significant phone board space and design-cycle time.

Ordering Information

Product Name	Order Number	Evaluation Board Part Number
SKY77753 Power Amplifier Module	SKY77753	EN21-D495-003 V1

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