



SKY77765-11

Amplifier from Skyworks Solutions, Inc.
Amplifier, Power, 815-849MHz, 3.2V-4.2V, 3 x 3mm

Status: Standard | Data Sheet: | RoHS Compliance:

The SKY77765 Power Amplifier Module (PAM) is a fully matched 10-pad surface mount module developed for Wideband Code Division Multiple Access (WCDMA) applications. This small and efficient module packs full 815-849 MHz bandwidth coverage into a single compact package. Because of high efficiencies attained throughout the entire power range, the SKY77765 delivers unsurpassed talk-time advantages. The SKY77765 meets the stringent spectral linearity requirements of High Speed Downlink Packet Access (HSDPA), High Speed Uplink Packet Access (HSUPA), and Long Term Evolution (LTE) data transmission with high power added efficiency. An integrated directional coupler eliminates the need for any external coupler. The Gallium Arsenide (GaAs) Microwave Monolithic Integrated Circuit (MMIC) contains all amplifier active circuitry, including input and interstage matching circuits. The silicon CMOS support die, providing precision biasing for the MMIC affords a true CMOS-compatible control interface. Output match into a 50-ohm load, realized off-chip within the module package, optimizes efficiency and power performance. The SKY77765 is manufactured with Skyworks' InGaP GaAs Heterojunction Bipolar Transistor (HBT) process which provides for all positive voltage DC supply operation and maintains high efficiency and good linearity. While primary bias to the SKY77765 can be supplied directly from any suitable battery with an output of 3.2 V to 4.2 V, optimal performance is obtained with VCC2 sourced from a DC-DC power supply adjusted within 0.5 V to 3.4 V based on target output power levels. Power down executes by setting VFNAR1 F to zero volts. No external supply side switch is needed as

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Part Number: SKY77765-11

Availability		
In Stock	0	
On Order	100	by 6/14/2021
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No Current Notices

