PRODUCT SUMMARY

SKY78057-11 Tx-Rx Front-End Module w/ Integrated Duplexers (TXFEMiD) for GSM / EGPRS / TD-SCDMA / TDD LTE, Switching QPX, Nine Linear TRx Switch Ports

Applications
• Cellular handsets encompassing Quad-Band GSM/EDGE, Dual-Band TD-SCDMA, and TDD LTE
  - Class 4 GSM850/900
  - Class 1 DCS1800/PCS1900
  - Class 12 GPRS multi-slot operation
  - Linear EDGE operation
  - TD-SCDMA Bands 34/39
  - TDD LTE Band 39

Features
• Supports FDD DL, TDD DL/UL
• Bands 5, 8, 1, 3, 39 and 41 Filters and integrated DPX
• B39/41 and B1/3 CA
• 1+3 with switching QPX
• Small, low profile package
  - 7.0 mm x 6.5 mm x 0.85 mm
  - 54-pad configuration

Features
• MIPI® RFFE control with dual-standard support
  - User-selectable register mappings
  - Linear or VRAMP-based GMSK power control
• RF ports internally matched to 50 Ω load
• High Efficiency (inclusive of coupler)
  - 40% GSM850
  - 31% DCS1800
  - 40% GSM900
  - 33% PCS1900
• Tx harmonics below –40 dBm
• Supports APT, buck DC-DC supply
• Nine low insertion loss/high linearity TRx switch ports
• RF input switching to 3G/4G path
• Integrated broadband directional coupler
• Integrated noise suppression notch filter for WiFi coexistence
• Built-in IEC-compliant antenna ESD protection
• High impedance control inputs: 20 µA, maximum
• Current limiting and over-voltage protection for ruggedness and extended battery life
• Power control circuitry built-in for improved TRP variation

DISCONTINUED

Skyworks Green™ products are compliant with all applicable legislation and are halogen-free. For additional information, refer to Skyworks Definition of Green™ document number SD04-0074.
## Ordering Information

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