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
- 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

Skyworks Green™ products are compliant with all applicable legislation and are halogen-free. For additional information, refer to Skyworks Definition of Green™, document number S304-0674.
## Ordering Information

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