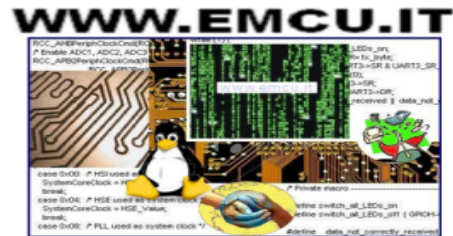


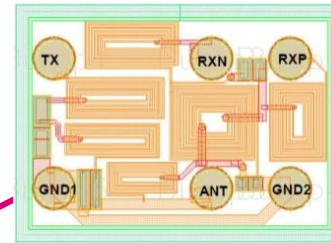
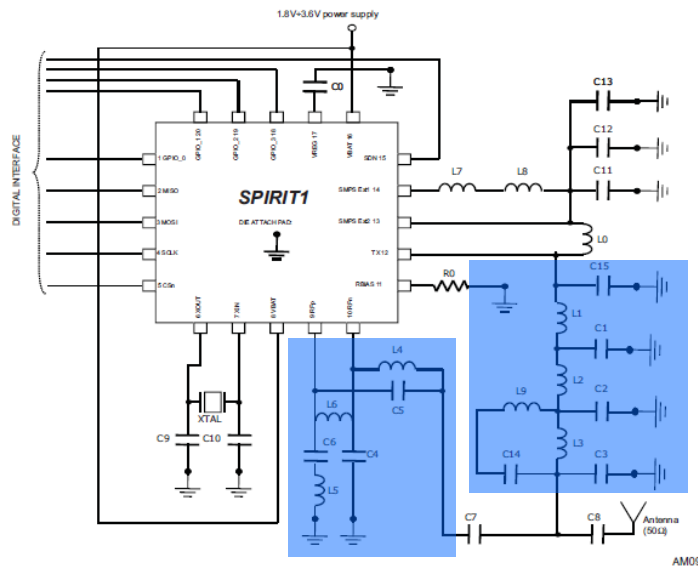
Companion chip to SPIRIT1 @ 868MHz

Companion chip to SPIRIT1 @ 868MHz

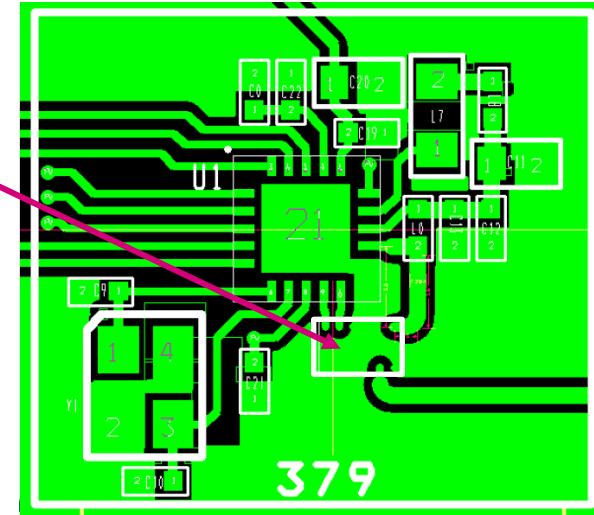


BALF-SPI-01D3

SPIRIT1 Companion chip



2.0 x 1.4 mm



SPIRIT1 EVB with BALF-SPI-01D3

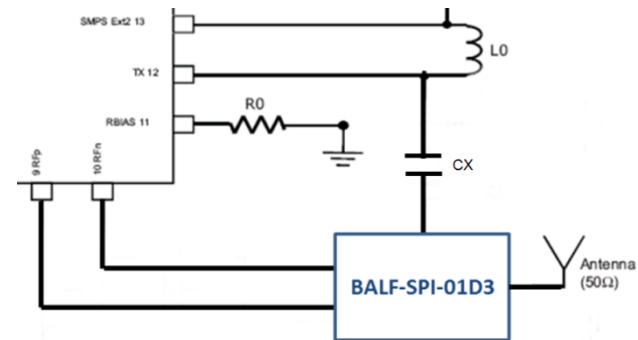
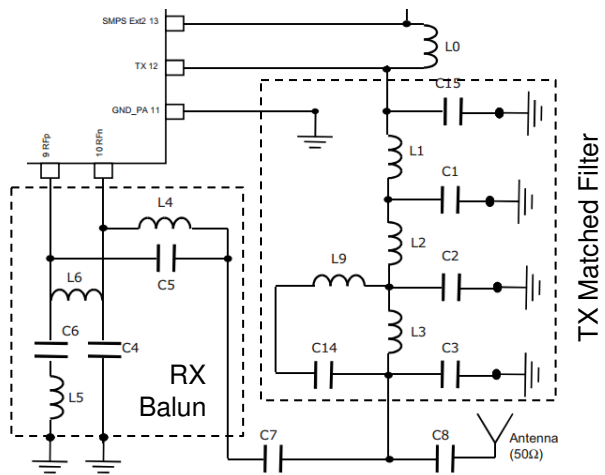
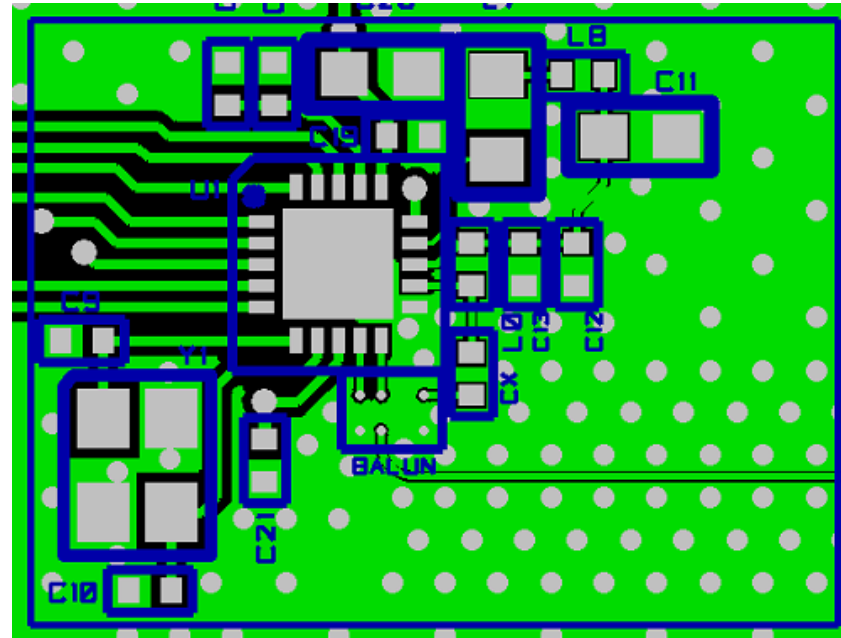
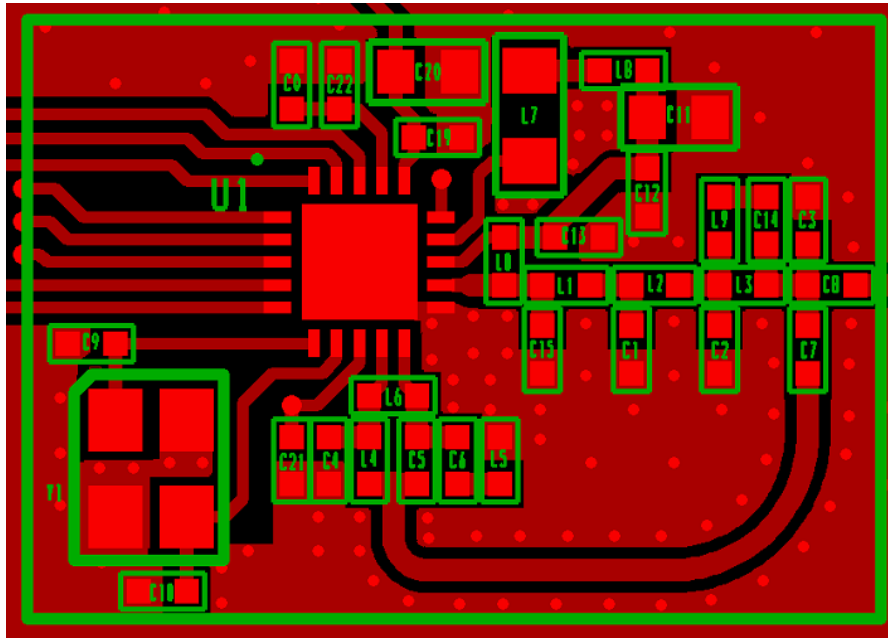
Sample : May 2013
Demo Board : May 2013
Ramp-up : July 2013

Balun+Filter into 1 die

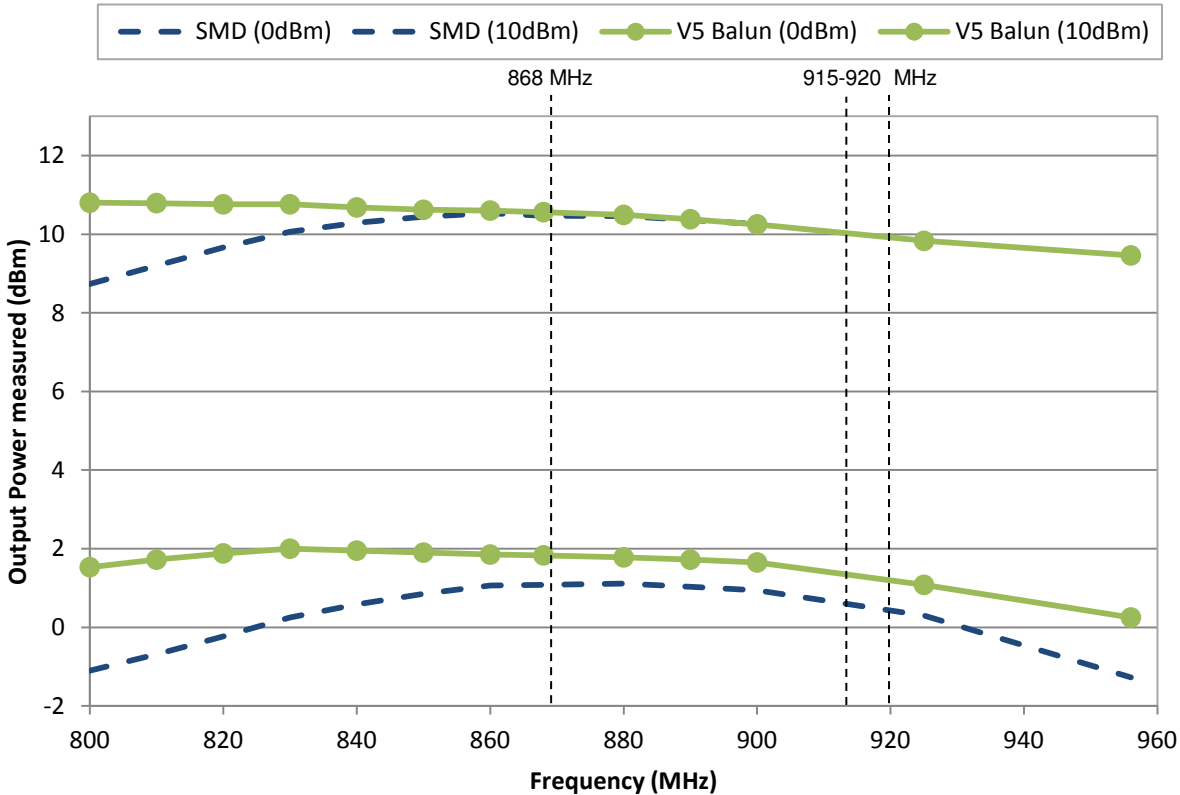
- ST IPD **Technology on Glass** : already used by main RF players
- Cover all ETSI, FCC & ARIB recommendation : **868 to 920 MHz** frequency range
- < 3mm² : Reduce **Size** (up to 70% vs discrete solution) and **Cost** (-60% from BOM+PCB)
- Dedicated companion chip : No validation needed at customer for **faster design** time
 - Validation on-going in **SPIRIT1** evaluation board
- No components dispersion or temperature variation : **Function is guaranteed**
- Integrated solution : Higher **Reliability**, better **Performance** (IL) thanks to low parasitic Glass wafer, greatly **reduce PCB sensibility**



SPIRIT1 EVB Layout



SPIRIT1 from 800MHz to 930MHz



SPIRIT1 @ 868MHz Harmonics @ 10dBm

H2 SMD @ -36dB
H2 V5 Balun @ -40dB

