

**DESCRIPTION OF CIRCUITRY SUPPRESSING SPURIOUS  
AND HARMONIC EMISSIONS**

## Circuits for suppression of spurious radiation

All functional RF blocks are mounted on a single multilayer printed circuit board (PCB). This board also contains the Master Controller Unit (MCU) and Digital Signal Processing functions. Components are standard SMD or flipchip type and mounted using reflow soldering. The PCB contains two common ground planes. All other layers are signal layers with the unused areas acting as a ground plane. Layout design has been completed according to EMC/EMI guidelines.

Shielding consists of a

- Metal shield cover all components.

Conducted spurious emissions from the radio unit are attenuated with BP filter. The filter has the reference number Z180.

## Power Limiting

The desired transmitted power isn't adjusted. The maximum power is +4dBm.