

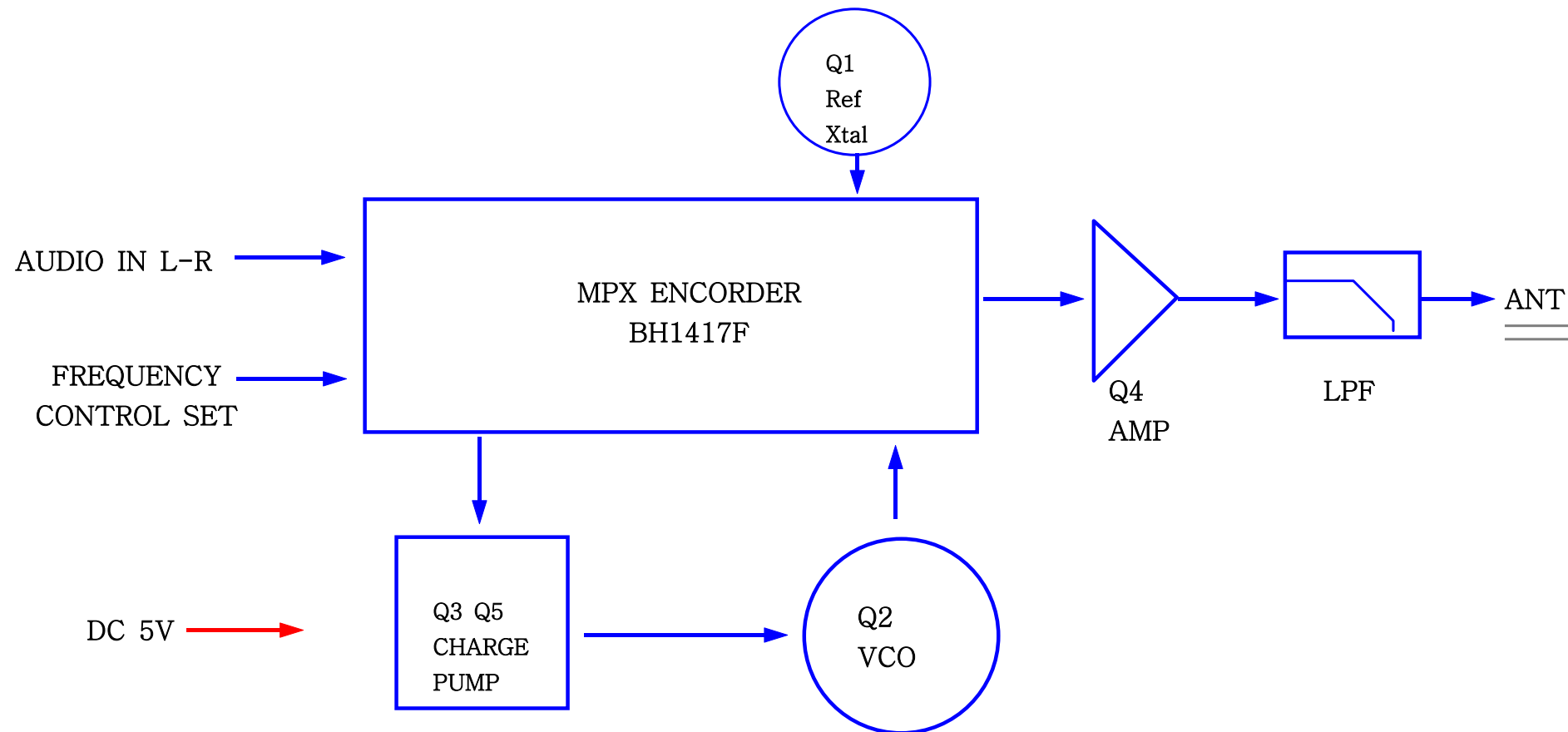


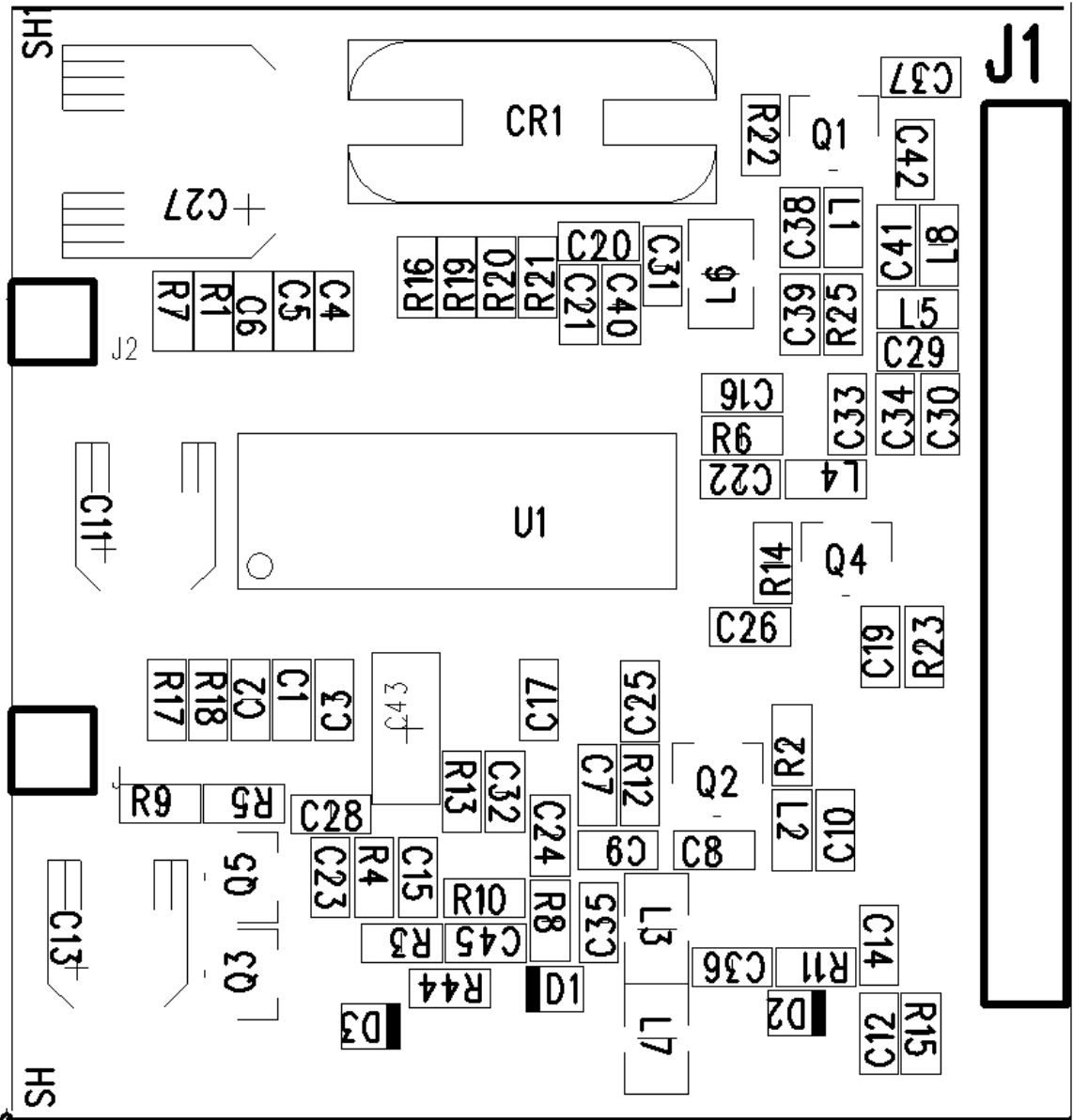
S1417F FM MPX TRANSMITTER MODULE BLOCK DIAGRAM

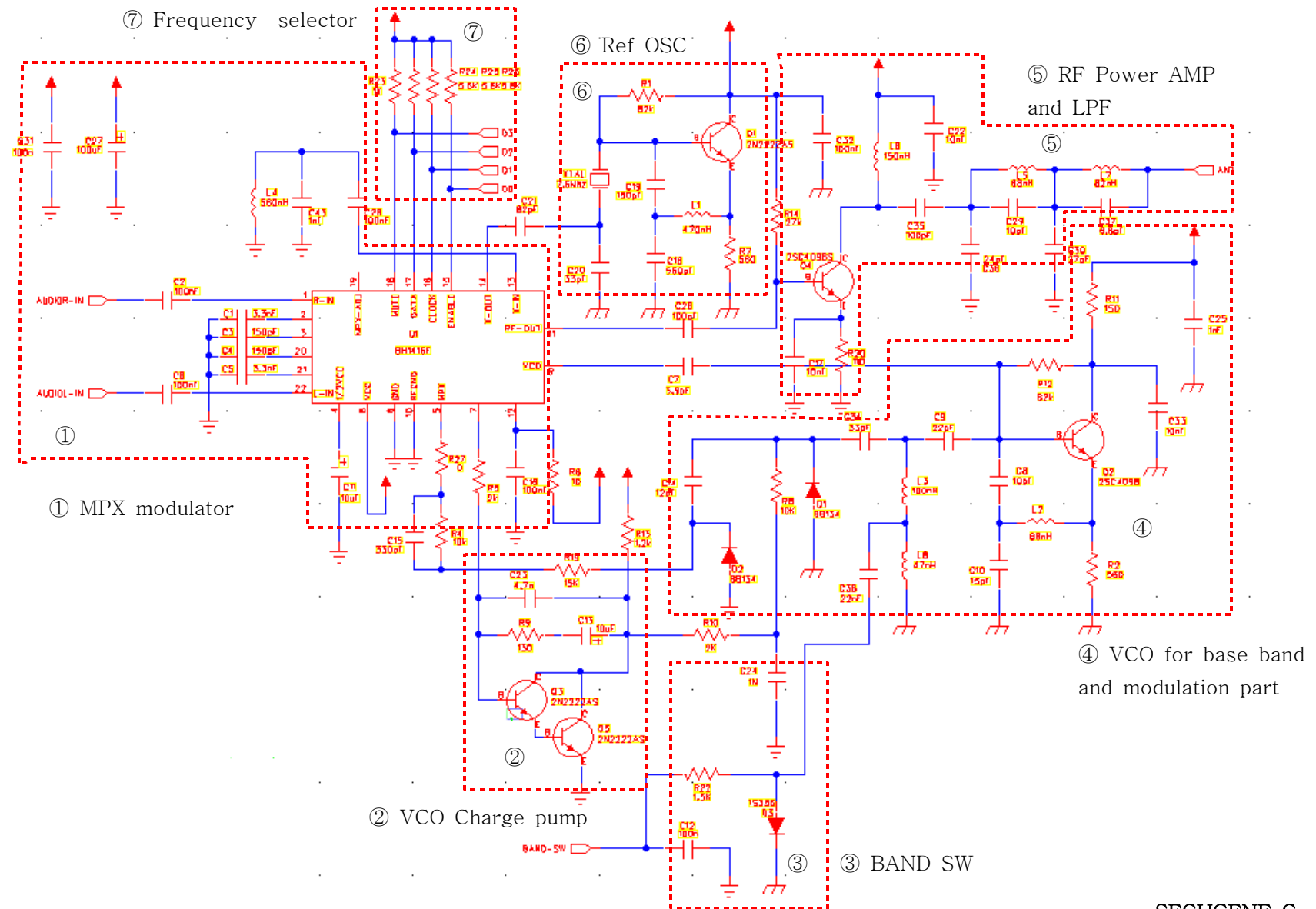
copyfrance@hotmail.com



[FM MPX TRANSMITTER BLOCK DIAGRAM]









1. FM STEREO TRANSMITTER CONCEPTION & Functions

1-1 SUMMARY

This USB HOST MP3 player are stereo transmits (MP3, WMA file, etc) to FM radio

Transmission Frequency are selectable 13CH(in 87.5~108MHz)

1-2 Main Functions of FM Transmitter

When the power is ON then it's transmits to setted CH frequency.

2. Type of radio station

This weak power radio station is available for Car Audio,

Home Audio, FM Radio in order that may accomplish education, entertainment purpose .

3. Specification of FM Transmitting Block

3-1 General specifications

- 1) Current Dissipation : 35mA Max
- 2) Supply Voltage : DC5V
- 3) Dimension : (H)4mm X (W)30mm X (D)30mm
- 4) Environment
 - Storage Temperature : -30℃ ~ +80℃
 - Operating Temperature : -10℃ ~ +60℃
- 5) Antenna
 - Gain : -3dBi
 - Length : 50Cm Helical
 - Output Impedance : 50Ω

3-2 Electrical Specification(Transmitter)

- 1) Type of emission : FM(F3E)
- 2) Duplex : Only transmit



-
- 3) RF output level : under 450uV/m at 3m
 - 4) Frequency range : 87.7MHz 87.9MHz 88.1MHz 88.3MHz 88.5MHz 88.7MHz 88.9MHz 106.7MHz 106.9MHz 107.1MHz 107.3MHz 107.5MHz 107.9MHz
 - 5) Frequency stability : ± 5 PPM
 - 6)Number of Channel : 14channel
 - 7) Channel space : 200kHz
 - 8) frequency deviation : ± 75 kHz
 - 9) Oscillation type : PLL VCO
 - 10) frequency drift [after 30min : ± 100 Hz
 - 11) Audio input frequency range : : 6dB/OCT 20Hz ~ 15kHz
 - 12) pre-emphasis : 75 μ s
 - 13) Spurious : -65dBc under
 - 14) Total Harmonic Distortion : 0.1% typical
 - 15) RF out matching impedance : 50 Ω
 - 16) Function : RF oscillator & audio frequency