

40mVtt input = all OK

60mVtt in is max = 300mVtt out

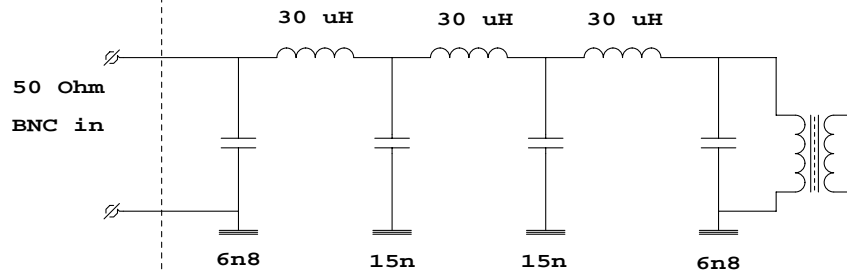
120mVtt in = clipping / distortion

max. level about -20dBm

Converter is fully HF shielded

Build in a PCB board enclosure with compartments
(See dashed lines)

Suppress mediumwave band
with 450 to 500 kHz low-pass

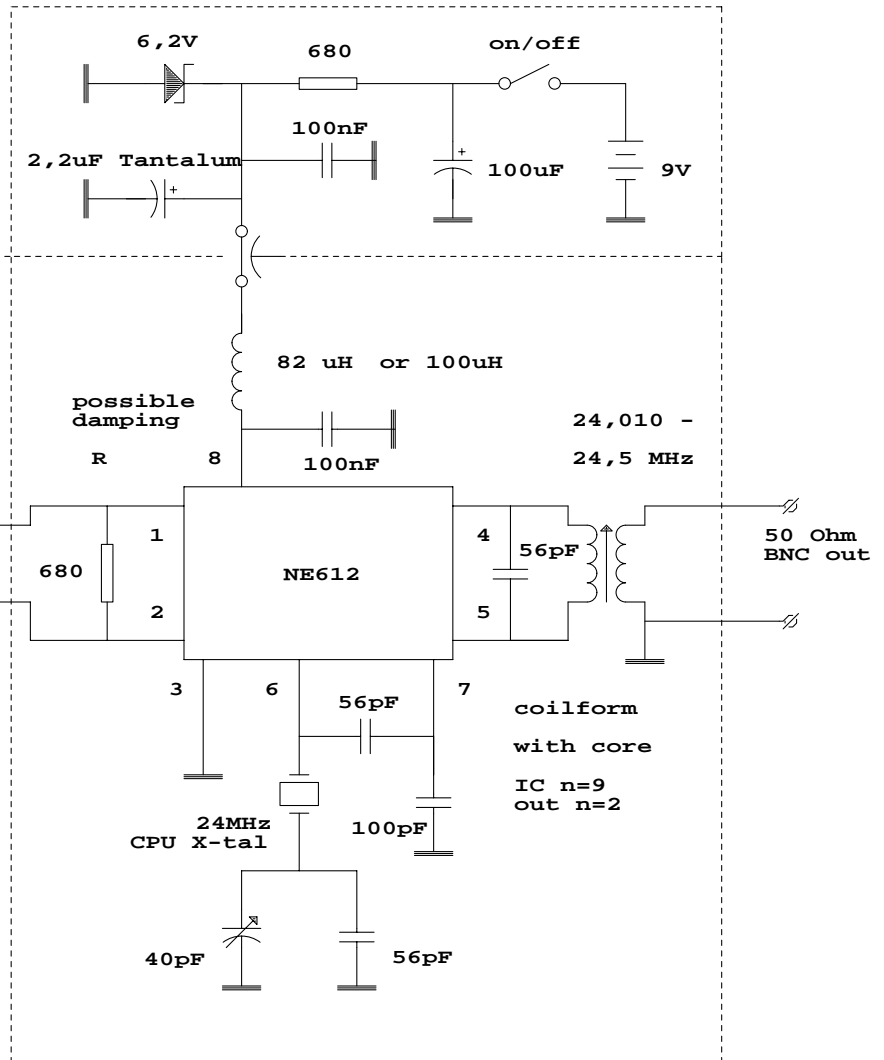


Input part can be isolated or galvanically separated

Transformer recipe:

4 twisted wires wound on
2 stacked 3E25 14mm toroids
n=32, 50 Ohm = 1 wire strand
450 Ohm = 3x strands in series
possib. 2x 3C11 14mm toroids
AL 1x 3E25 = 2450 AL 1x 3C11 = 1900

Transformer works OK from 10 kHz



470 kHz = -3dB

500 kHz = -6dB

540 kHz = -12dB

NO input or output capacitor added.
Accidental 12V DC = smoke !!

Made by W. Geeraert / PELABR

Size	Document Number	REV
A	VLF/LF EMC converter 10kHz - 500kHz	1
Date:	February 14, 2011	Sheet 1 of 1