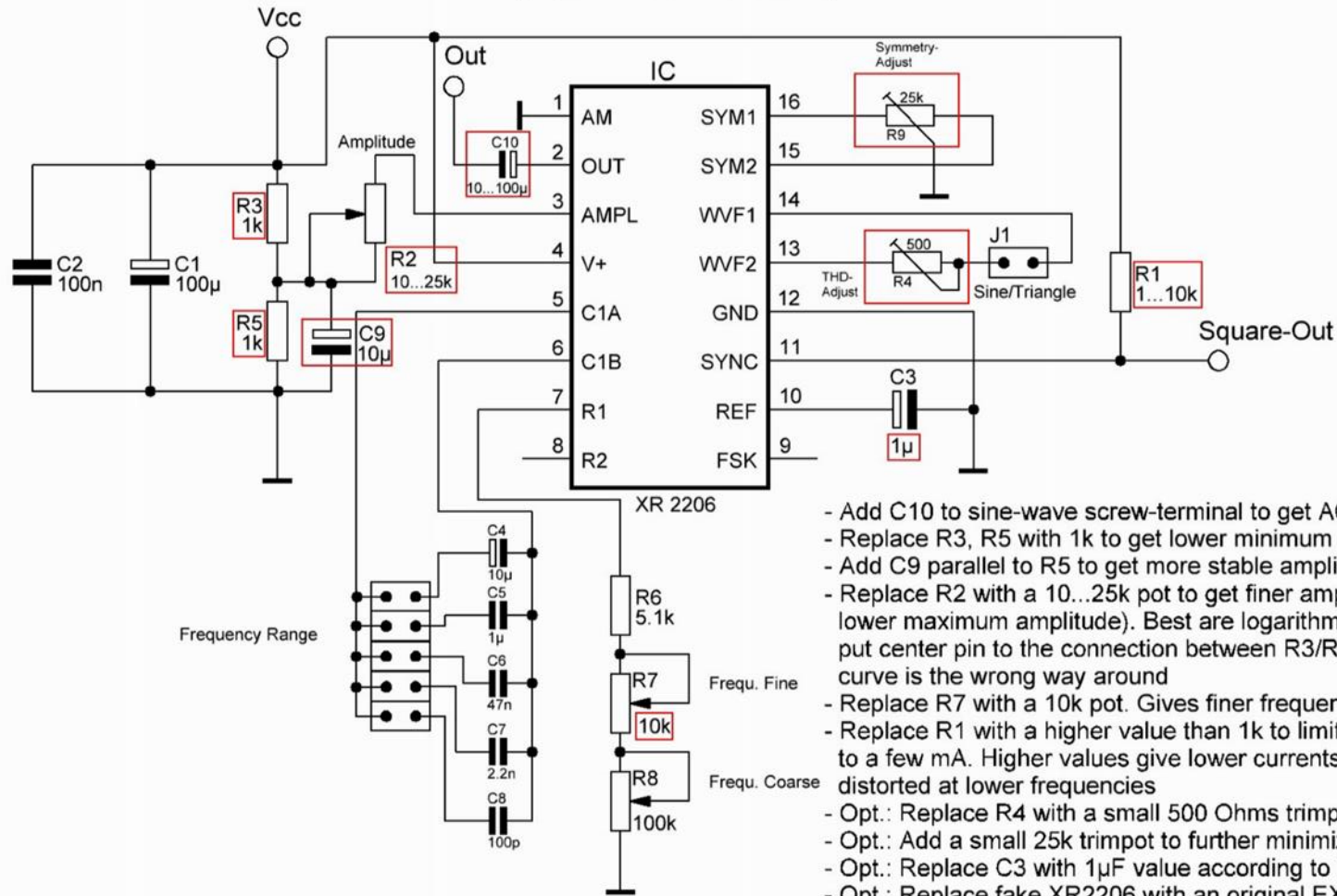


XR2206 Ebay- Function Generator (Optimized Version2)



- Add C10 to sine-wave screw-terminal to get AC-coupled output (without DC-Bias)
- Replace R3, R5 with 1k to get lower minimum amplitude
- Add C9 parallel to R5 to get more stable amplitude
- Replace R2 with a 10...25k pot to get finer amplitude control (lower values means lower maximum amplitude). Best are logarithmic pots but then you have to put center pin to the connection between R3/R5. Otherwise the logarithmic curve is the wrong way around
- Replace R7 with a 10k pot. Gives finer frequency control
- Replace R1 with a higher value than 1k to limit the current into digital logic inputs to a few mA. Higher values give lower currents but then the square-wave gets distorted at lower frequencies
- Opt.: Replace R4 with a small 500 Ohms trimpot to minimize sine-wave distortion
- Opt.: Add a small 25k trimpot to further minimize sine-wave distortion
- Opt.: Replace C3 with 1µF value according to XR2206 datasheet
- Opt.: Replace fake XR2206 with an original EXAR one