

Example order list for PCB 10 Version 2 plus PCB 12 Version 1 from 13. 3. 2013

PCB 12 Version 1 (Amplifier)

| No | Vendor | Part No | Description | Quantity | Price | Total price |
|------------|-------------|---------------------|--|----------|--------|---------------|
| 1. | Blitzortung | PCB-12-1 | Amplifier board PCB 12 Version 1 3 | 1 | 10,00€ | 10,00€ |
| 2. | Mouser | 579-MCP6S91-E/P | 579-MCP6S91-E/P | 4 | 1,00€ | 4,00€ |
| 3. | Mouser | 579-MCP6292-E/P | 579-MCP6292-E/P use (-E/SN) for PCB12 ver3 | 2 | 1,00€ | 2,00€ |
| 4. | Mouser | 926-LMH6642MAX/NOPB | 926-LMH6642MAX/NOPB | 2 | 1,50€ | 3,00€ |
| 5. | Reichelt | ATMEGA 8-16 DIP | ATMega AVR-RISC-Controller, PDIP-28 | 1 | 2,00€ | 2,00€ |
| 6. | Reichelt | 1N 4148 | Planar Epitaxial Schaltdiode, DO35, 100V, 0,15A | 4 | 0,05€ | 0,20€ |
| 7. | Reichelt | LED 3MM GE | LED, 3mm, Low Cost, gelb | 4 | 0,10€ | 0,40€ |
| 8. | Reichelt | LED 3MM GN | LED, 3mm, Low Cost, grün | 1 | 0,10€ | 0,10€ |
| 9. | Reichelt | LED 3MM RT | LED, 3mm, Low Cost, rot | 1 | 0,10€ | 0,10€ |
| 10. | Reichelt | RAD FC 470/16 | Elko radial, 105°C, low ESR, RM 5,0mm | 2 | 0,30€ | 0,60€ |
| 11. | Reichelt | RAD FC 2,2/50 | Elko radial, 105°C, low ESR, RM 2,0mm | 2 | 0,10€ | 0,20€ |
| 12. | Reichelt | Z5U-2,5 100N | Vielschicht-Keramikkondensator 100N, 20% | 17 | 0,10€ | 1,70€ |
| 13. | Reichelt | Z5U-2,5 47N | Vielschicht-Keramikkondensator 47N, 20% | 2 | 0,10€ | 0,20€ |
| 14. | Reichelt | Z5U-2,5 22N | Vielschicht-Keramikkondensator 22N, 20% | 2 | 0,10€ | 0,20€ |
| 15. | Reichelt | Z5U-2,5 15N | Vielschicht-Keramikkondensator 15N, 20% | 2 | 0,10€ | 0,20€ |
| 16. | Reichelt | X7R-2,5 4,7N | Vielschicht-Keramikkondensator 4,7N, 10% | 2 | 0,10€ | 0,20€ |
| 17. | Reichelt | X7R-2,5 3,3N | Vielschicht-Keramikkondensator 3,3N, 10% | 2 | 0,10€ | 0,20€ |
| 18. | Reichelt | X7R-2,5 2,2N | Vielschicht-Keramikkondensator 2,2N, 10% | 4 | 0,10€ | 0,40€ |
| 19. | Reichelt | L-07HCP 470µ | Stehende-Induktivität, 07HCP, Ferrit, 470µ | 1 | 0,40€ | 0,40€ |
| 20. | Reichelt | L-MICC 3,3µ | Festinduktivität, axial, MICC, Ferrit 3,3µ | 4 | 0,30€ | 1,20€ |
| 21. | Reichelt | METALL 100K | Metallschichtwiderstand 100 K-Ohm | 4 | 0,10€ | 0,40€ |
| 22. | Reichelt | METALL 22K | Metallschichtwiderstand 22 K-Ohm | 6 | 0,10€ | 0,60€ |
| 23. | Reichelt | METALL 15K | Metallschichtwiderstand 15 K-Ohm | 2 | 0,10€ | 0,20€ |
| 24. | Reichelt | METALL 10,0K | Metallschichtwiderstand 10 K-Ohm | 5 | 0,10€ | 0,50€ |
| 25. | Reichelt | METALL 2,20K | Metallschichtwiderstand 2.20 K-Ohm | 4 | 0,08€ | 0,33€ |
| 26. | Reichelt | METALL 2,00K | Metallschichtwiderstand 2.00 K-Ohm | 6 | 0,08€ | 0,49€ |
| 27. | Reichelt | METALL 47 | Metallschichtwiderstand 47-Ohm | 2 | 0,10€ | 0,20€ |
| 28. | Reichelt | 76-10 50K | Cermet-Trimmer, liegend, 10mm, 50 K-Ohm | 1 | 0,40€ | 0,40€ |
| 29. | Reichelt | SIL 7-6 1,5K | Widerstands-Netzwerk, 6Wid./7Pins, 1,5 K-Ohm | 1 | 0,20€ | 0,20€ |
| 30. | Reichelt | GS 8P | IC-Sockel, 8-polig, superflach, gedreht, vergold. | 8 | 0,20€ | 1,60€ |
| 31. | Reichelt | GS 28P | IC-Sockel, 28-polig, superflach, gedreht, vergold. | 1 | 0,40€ | 0,40€ |
| 32. | Reichelt | TASTER 3301 | Kurzhubtaster 6x6mm, Höhe: 4,3mm, 12V, vertikal | 1 | 0,30€ | 0,30€ |
| 33. | Reichelt | MEBP 8-8G | Modular-Einbaubuchse 8/8, geschirmt | 1 | 0,60€ | 0,60€ |
| 34. | Reichelt | AKL 101-04 | Anschlussklemme 4-polig, RM 5,08 | 1 | 0,50€ | 0,50€ |
| 35. | Reichelt | USB BWM | USB-Einbaubuchse, B-Mini, gew., Printmontage | 1 | 1,10€ | 1,10€ |
| 36. | Reichelt | SL 1X36G 2,54 | 36pol. Stiftleiste, gerade, RM 2,54 | 1 | 0,20€ | 0,20€ |
| Sum | | | | | | 35,32€ |

PCB 10 Version 2 (Controller)

| No | Vendor | Part No | Description | Quantity | Price | Total price |
|-----|-------------|----------------------|--|----------|--------|-------------|
| 1. | Blitzortung | PCB-10-2 | Controler board PCB 10 Version 2 | 1 | 14,00€ | 14,00€ |
| 2. | Mouser | 511-STM32F4DISCOVERY | STM32F4DISCOVERY | 1 | 15,00€ | 15,00€ |
| 3. | trenz | 24432 | GlobalTop PA6H, GPS receiver (MediaTek MT3339) | 1 | 20,00€ | 20,00€ |
| 4. | trenz | 23967 | GlobalTop GPA external GPS antenna (SMA, 5 m) | 1 | 12,00€ | 12,00€ |
| 5. | eBay | HR911105A | HanRun RJ45 connector with integrated magnetics | 1 | 2,00€ | 2,00€ |
| 6. | Reichelt | LCD 122DIP | Grafikmodul Anschluss an 8-bit Datenbus | 1 | 22,00€ | 22,00€ |
| 7. | Reichelt | ENC 28J60-I/SP | Ethernet Controller, Stand-Alone, S-DIL-28 | 1 | 3,20€ | 3,20€ |
| 8. | Reichelt | LF 33 CV | Festspannungsregler, +3,3V, TO-220 | 1 | 0,80€ | 0,80€ |
| 9. | Reichelt | 1N 4148 | Planar Epitaxial Schaltdiode, DO35, 100V, 0,15A | 12 | 0,05€ | 0,60€ |
| 10. | Reichelt | 1N 5818 | Schottky Diode, DO41, 30V, 1A | 4 | 0,10€ | 0,40€ |
| 11. | Reichelt | LED 3MM GN | LED, 3mm, Low Cost, grün | 1 | 0,10€ | 0,10€ |
| 12. | Reichelt | BC 338 | Transistor NPN TO-92 25V 0,5A 0,625W | 2 | 0,10€ | 0,20€ |
| 13. | Reichelt | RAD FC 470/16 | Elko radial, 105°C, low ESR, RM 5,0mm | 1 | 0,30€ | 0,30€ |
| 14. | Reichelt | RAD FC 100/25 | Elko radial, 105°C, low ESR, RM 2,5mm | 4 | 0,15€ | 0,60€ |
| 15. | Reichelt | Z5U-2,5 100N | Vielschicht-Keramikkondensator 100N, 20% | 15 | 0,10€ | 1,50€ |
| 16. | Reichelt | KERKO 18P | Keramik-Kondensator 18P | 2 | 0,10€ | 0,20€ |
| 17. | Reichelt | L-HBCC 10µ | Festinduktivität, axial, HBCC, Ferrit 10µ | 3 | 0,30€ | 0,90€ |
| 18. | Reichelt | METALL ... | Metallschichtwiderstand ... Ohm | 24 | 0,10€ | 2,40€ |
| 19. | Reichelt | SIL 9-8 100 | Widerstands-Netzwerk, 8Wid./9Pins, 100 Ohm | 1 | 0,15€ | 0,15€ |
| 20. | Reichelt | SIL 9-8 10K | Widerstands-Netzwerk, 8Wid./9Pins, 10 K-Ohm | 1 | 0,15€ | 0,15€ |
| 21. | Reichelt | SIL 6-3 1,0K | Widerstands-Netzwerk, 3Wid./6Pins, 1 K-Ohm | 2 | 0,15€ | 0,30€ |
| 22. | Reichelt | SMA REV BUE-90 | SMA-Reverse-Printeinbaubuchse 90 | 1 | 2,20€ | 2,20€ |
| 23. | Reichelt | USB BWM | USB-Einbaubuchse, B-Mini, gew., Printmontage | 1 | 1,10€ | 1,10€ |
| 24. | Reichelt | MEBP 8-8G | Modular-Einbaubuchse 8/8, geschirmt | 2 | 0,60€ | 1,20€ |
| 25. | Reichelt | GS 28P | IC-Sockel, 28-polig, superflach, gedreht, vergold. | 1 | 0,40€ | 0,40€ |
| 26. | Reichelt | SL 1X36W 2,54 | 36pol. Stiftleiste, gewinkelt, RM 2,54 | 1 | 0,35€ | 0,35€ |

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| 27. | Reichelt | SUMMER EPM 121 | Piezo-Schallwandler | 1 | 0,80€ | 0,80€ |
| 28. | Reichelt | 25,0000-HC49U-S | Standardquarz, 3. Oberton, 25,0 MHz | 1 | 0,25€ | 0,25€ |
| 29. | Reichelt | MPE 156-1-004 | Buchsenleisten 2,00 mm, 1X04, gerade | 2 | 0,30€ | 0,60€ |
| 30. | Reichelt | MPE 156-1-005 | Buchsenleisten 2,00 mm, 1X05, gerade | 2 | 0,40€ | 0,80€ |
| 31. | Reichelt | JUMPER 2,54 SW | Kurzschlussbrücke, schwarz, RM 2,54 | 4 | 0,10€ | 0,40€ |
| Sum | | | | | | 104,90€ |

| | | | Advisable Parts | | | |
|------------------|---------------|------------------|--|-----------------|--------------|--------------------|
| No | Vendor | Part No | Description | Quantity | Price | Total price |
| 1. | Reichelt | USB PA 230V 5V1A | USB-Netzteil 5V / 1000mA / USB-Buchse | 1 | 4,00€ | 4,00€ |
| 2. | Reichelt | PATCHKABEL 10 GR | 10m Cat.5-Kabel, grau | 2 | 2,50€ | 5,00€ |
| 3. | Reichelt | AK 673-A | USB-Kabel 2.0, A-Stecker/Mini-B-USB-5P-St,1,5m | 1 | 1,00€ | 1,00€ |
| 4. | W.Friese | SKS120N | 12cm ferrite rod antennas | 2 | 22,50€ | 45,00€ |
| Sum | | | | | | 55,00€ |
| Total Sum | | | | | | 195,22€ |