|  |  |  |
| --- | --- | --- |
| **BOM Keyer project PI4DEC** | |  |
|  |  |  |
| **Bill of materials** |  |  |
|  |  |  |
| **Part name and Value** | **Sch. Ref.** | **Quantity** |
|  |  |  |
| PC Board |  | 1 |
|  |  |  |
| Resistor 10 Ohm | R34, | 1 |
| Resistor 100 Ohm | R14, R23, R36 | 3 |
| Resistor 220 Ohm | R13, R15, R19, R20, R26 | 5 |
| Resistor 560 Ohm | R32 | 1 |
| Resistor 1K Ohm | R1,R2,R3,R4,R5,R6,R7,R12,R18,R27,R28 | 11 |
| Resistor 3K3 Ohm | R30,R31,R33 | 3 |
| Resistor 4K7 Ohm | R24,R25 | 2 |
| Resistor 10K Ohm | R9,R16 R17, R21,R22 | 5 |
| Resistor 150K Ohm | R35 | 1 |
| Resistor 100K Ohm | R37 | 1 |
|  |  |  |
| Trimmer potentiometer 500 Ohm | R10 | 1 |
| Trimmer potentiometer 20K Ohm | R8,R11, R29 | 3 |
|  |  |  |
| Ceramic Disc Capacitor 10 nF | C1,C2,C3,C5,C7,C8 | 6 |
| Ceramic Disc Capacitor 100 nF | C6,C9,C10,C11,C12,C13 | 7 |
|  |  |  |
| Electrolytic Capacitor 10 uF | **C14,C15,C16,C17** | 4 |
| Electrolytic Capacitor 100 uF | C4 | 1 |
|  |  |  |
| Rotary Encoder with switch and knob | SW1 | 1 |
|  |  |  |
| Mini 6 DIN Socket | X1 | 1 |
|  |  |  |
| Single row Pin header male strip 40 pin, 2.54 mm | several | 1 |
|  |  |  |
| **Double Row 2x40 pin 2,54 mm Female Header IC connector** |  | **1** |
| **Double Row 2x8 pin 2,54 mm Female Header IC connector** |  | **2** |
| **Double Row 2x4 pin 2,54 mm Female Header IC connector** |  | **1** |
| Jumper Pin 2 | several | 6 |
|  |  |  |
| Push button | SW2…SW8 | 7 |
|  |  |  |
| Loudspeaker 8 Ohm | SP1 | 1 |
|  |  |  |
| Keypad 3x4 or 4x4 | U3 | 1 |
|  |  |  |
| Power entry | J6 | 1 |
|  |  |  |
| Several Audio In- outputs, Paddle input, Keyer outputs | several | 5 |
|  |  |  |
| Led 5 mm | LED1,LED2,LED3, LED4 | 4 |
|  |  |  |
| Transistor 2N3904 | Q2,Q5,Q7 | 3 |
|  |  |  |
| Mosfet 2N7000 | Q1,Q3,Q4,Q6, Q8 | 5 |
|  |  |  |
| Mega 2560 Pro Mini (Embed) | U2 | 1 |
|  |  |  |
| 20x4 LCD Backlit Display | U1 | 1 |
| or |  |  |
| 16x4 LCD Backlit Display | U1 | 1 |
| or |  |  |
| 16x2 LCD Backlit Display | U1 | 1 |
|  |  |  |
| On/Off Switch | S1 | 1 |