



Bill of Materials for XTALL Daughter Board

| Resistors | Used where | Quantity |
|-----------|-----------------|----------|
| 75 3W 5% | R1 | 1 |
| 1.00k 1% | R2, R3 | 2 |
| 10.0k 1% | R4, R6, R8, R10 | 4 |
| 100 1/6W | R5, R7, R9, R11 | 4 |

| Capacitors | Used where | Quantity |
|-----------------|--------------------|----------|
| 4.7uF ceramic | C1, C5 | 2 |
| 0.01uF, SMT1206 | C2, C3, C4, C6, C7 | 5 |
| 0.01uF ceramic | C8 | 1 |

| ICs | Used where | Quantity |
|-------------------|-------------------------|----------|
| LP2992AIM5-3.3v | U1 on bottom of board | 1 |
| 12F683 and socket | U2 | 1 |
| Si570 | U3(not included in kit) | 1 |

| Switch | Used where | Quantity |
|-----------------------|------------|----------|
| 4-position DIP switch | SW1 | 1 |

| Circuit board | Quantity |
|---------------|----------|
| XTALL v1.1 | 1 |

Kit building notes:

Order of mounting parts on the circuit board:

SMT capacitors C2, C3, C4, C6, C7 on bottom of board

1) Five-pin SMT voltage regulator, U1, on bottom of board

Exercise care in mounting U1 on the circuit board.

Make sure U1 leads are well centered on their pads before tacking part in place by careful soldering of one lead. Apply heat to pin to reposition U1 and when properly positioned carefully solder the other leads. Use solder wick to remove excess solder or solder bridges between pins.

2) U3, Si570, on top of board with careful soldering as with U1

3) Resistors R2 through R11 on top of board

4) Capacitors C1, C5 and C8 on top of board

5) Socket for U2 on top of board

6) DIP switch pack, SW1, on top of board

7) Power resistors R1 mounted 1/2 inch above top of board, body parallel to the top of board.

SoftRock Projects

XTALL v1.1 daughter board

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