

Bill of Materials for SE05 - Clocker Full Kit V0.0

| Item | Description | Qty | Designator | Package |
|-----------------|-----------------------------------|-----|------------------------------|---------|
| HARDWARE | | | | |
| 1 | M3 Thumbscrew | 4 | | - |
| | | | NB: Construct-A-Rack | |
| 2 | M3 x 6mm Bolt PH | 4 | | - |
| | | | NB: Doefper Compatible Rails | |
| PANEL | | | | |
| 3 | SE05 - Clocker Front Panel V0.0 | 1 | | - |
| PCB | | | | |
| 4 | SE05 - Clocker [2 Set] PCB V0.0 | 1 | | - |
| KITS | | | | |
| 5 | SE05 - Clocker Component Kit V0.0 | 1 | | - |
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Bill of Materials for SE05 - Clocker Component Kit V0.0 - 2

| Item | Description | Qty | Designator | Package |
|------|--------------------------------|-----|--|---------|
| | CONNECTOR | | | |
| 1 | 3.5mm Erthenvar Jack | 12 | 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312 | - |
| | HARDWARE | | | |
| 2 | M3 x 4mm Spacer Nylon Threaded | 1 | | - |
| 3 | M3 x 10mm Spacer Threaded | 1 | | - |
| 4 | M3 x 6mm Nylon Spacer Threaded | 1 | | - |
| 5 | M3 x 30mm Bolt | 1 | | - |
| 6 | M3 Nut | 1 | | - |
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Bill of Materials for SE05 - Clocker Component Kit V0.0 - Main Board

| Item | Description | Qty | Designator | Package |
|------------------------|---|-----|------------------------------|--------------|
| CAPACITOR | | | | |
| 1 | 100nF Ceramic Capacitor | 5 | C301, C403, C404, C407, C408 | RAD-0.2N |
| 2 | 1uF 35V Tantalum | 1 | C405 | RB-D5.0-P5.0 |
| CONNECTOR | | | | |
| 3 | 1x12 Pin Receptacle | 1 | J402 | 2212S |
| 4 | 16-pin IC Socket 0.3inch | 1 | U302 | DIP-16 |
| 5 | 28-pin IC Socket 0.3inch | 1 | U301 | DIP-28 |
| CRYSTAL | | | | |
| 6 | 16MHz Crystal | 1 | X301 | HC49/4H |
| DIODE | | | | |
| 7 | 1N4004 200V 1A | 1 | D401 | DIODE-0.4 |
| LINEAR | | | | |
| 8 | 78L05 +5V 100mA Fixed Voltage Regulator | 1 | U401 | TO-92 |
| 9 | ATMEGA328 | 1 | U301 | - |
| LOGIC | | | | |
| 10 | CD4099 - 8-bit Addressable Latch | 1 | U302 | DIP-16 |
| OPTO-ELECTRONIC | | | | |
| 11 | 3mm Red LED | 1 | D303 | - |
| 12 | 3mm Clear Lens Mount | 1 | D303 | - |
| 13 | LCD - mini12864 | 1 | LCD1 | - |
| RESISTOR | | | | |
| 14 | 10R 1% 0.5W Metal Film | 1 | R401 | AXIAL-0.4 |
| 15 | 100R 1% 0.5W Metal Film | 1 | R302 | AXIAL-0.4 |
| 16 | 2K2 1% 0.5W Metal Film | 1 | R304 | AXIAL-0.4 |
| 17 | 10K 1% 0.5W Metal Film | 2 | R301, R303 | AXIAL-0.4 |

Bill of Materials for SE05 - Clocker Component Kit V0.0 - Power Board

| Item | Description | Qty | Designator | Package |
|------------------|--------------------------|-----|------------|--------------|
| CAPACITOR | | | | |
| 1 | 22pF 10% Ceramic | 2 | C302, C303 | RAD-0.2N |
| 2 | 10uF 35V Electrolytic | 2 | C101, C102 | RB-D5.0-P2.0 |
| CONNECTOR | | | | |
| 3 | IDC16 Box Header | 1 | J101 | 2.54MM |
| 4 | 1x3 Pin 9mm Header | 1 | J402 | 2.54MM |
| INDUCTOR | | | | |
| 5 | Ferrite Bead - 0.45uH 7A | 2 | L101, L102 | - |
| UNITS | | | | |
| 6 | Panther - IDC16 - 24cm | 1 | J101 | - |
| End of document | | | | |