

DR 412 MAIN BOARD V.1

| VALUE | PCB | MOUSER | Qty | SIZE | | NOTES |
|--------------------------------|---|----------------------|-----------|-------------------|------------|---------------|
| RESISTORS | | | | | | |
| 0R(JUMPER) | R141, R142 | | 2 | USE WIRE or LEG | | |
| 10R | R3, R6, R27, R28, R65, R66, R67, R68, R93, R94, R95, R96 | 271-10-RC | 12 | PITCH 10MM | 1/4W MF 1% | |
| 100R | R143, R144, R145, R146, R147, R148, R149, R150, R151, R152, R153, R154, R155, R156, R157, R158 | 271-100-RC | 16 | PITCH 10MM | 1/4W MF 1% | |
| 120R | R2, R5, R24, R26 | 271-120-RC | 4 | PITCH 10MM | 1/4W MF 1% | |
| 160R | R8, R12, R31, R32 | 271-160-RC | 4 | PITCH 10MM | 1/4W MF 1% | |
| 200R | R18, R20, R41, R42 | 271-200-RC | 4 | PITCH 10MM | 1/4W MF 1% | |
| 220R | R45, R46, R47, R49, R73, R74, R75, R77 | 271-220-RC | 8 | PITCH 10MM | 1/4W MF 1% | |
| 750R | R10, R11, R13, R14, R33, R34, R35, R36 | 271-750-RC | 8 | PITCH 10MM | 1/4W MF 1% | |
| 1K5 | R69, R70, R97, R98 | 271-1.5K-RC | 4 | PITCH 10MM | 1/4W MF 1% | |
| 3K9 | R57, R58, R85, R86 | 271-3.9K-RC | 4 | PITCH 10MM | 1/4W MF 1% | |
| 6K8 | R1, R4, R7, R9, R23, R25, R29, R30 | 271-6.8K-RC | 8 | PITCH 10MM | 1/4W MF 1% | |
| 10K | R15, R16, R37, R38, R60, R62, R63, R64, R71, R72, R88, R89, R91, R92, R99, R100 | 271-10K-RC | 16 | PITCH 10MM | 1/4W MF 1% | |
| 20K | R21, R22, R43, R44 | 271-20K-RC | 4 | PITCH 10MM | 1/4W MF 1% | |
| 100K | R51, R52, R53, R54, R55, R56, R79, R80, R81, R82, R83, R84 | 271-100K-RC | 12 | PITCH 10MM | 1/4W MF 1% | |
| 120K | R48, R50, R76, R78 | 271-120K-RC | 4 | PITCH 10MM | 1/4W MF 1% | |
| 150K | R17, R19, R39, R40 | 271-150K-RC | 4 | PITCH 10MM | 1/4W MF 1% | |
| 220K | R45, R46, R47, R49, R73, R74, R75, R77 | 271-220K-RC | 8 | PITCH 10MM | 1/4W MF 1% | |
| 1M | R59, R61, R87, R90 | 271-1.0M-RC | 4 | PITCH 10MM | 1/4W MF 1% | |
| DIODES | | | | | | |
| 1N4148 | D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32 | 512-1N4148 | 32 | | | |
| CERAMIC CAPACITORS | | | | | | |
| 120pF | C19, C22, C43, C44 | 810-FG28C0G1H121JNT0 | 4 | PITCH 5MM | 50V | C0G/NPO |
| 0.1uF | C17, C18, C20, C21, C39, C40, C41, C42, C47, C48, C49, C50, C53, C54, C55, C56 | 594-K104K15X7RF53K2 | 16 | PITCH 2.5MM | 50V | X7R |
| FILM CAPACITORS | | | | | | |
| 220pF | C9, C11, C31, C32 | 505-FKP2C002201D00KI | 4 | PITCH 5MM | | FILM or STYRO |
| 1000pF | C5, C6, C7, C8, C27, C28, C29, C30 | 505-FKP21000/100/10 | 8 | PITCH 5MM | | FILM or STYRO |
| ELECTROLYTIC CAPACITORS | | | | | | |
| 1uF | C45, C46, C51, C52 | 647-UVR2C010MED | 4 | D 5MM PITCH 2.5MM | 35V | LOW ESSR |
| 47uF/50 Volts | C3, C4, C25, C26 | 647-UVR1H470MED1TA | 4 | D 6MM PITCH 2.5MM | 50V | LOW ESSR |

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|------------------------------|---|---------------------------|------------|-------------------|--------|-------------|
| 47uF | C1, C2, C23, C24 | 647-UVR1H470MED1TA | 4 | D 7MM PITCH 2.5MM | 35V | LOW ESSR |
| 100uF | C13, C14, C15, C16, C35, C36, C37, C38 | 667-ECA-1VM101 | 8 | D 7MM PITCH 2.5MM | 35V | LOW ESSR |
| 220uF/50 Volts | C57, C58, C59, C60, C61 OPTIONAL | 667-EEU-FS1H221LB | 5 | D 8MM PITCH 3.5MM | 50V | LOW ESSR |
| 330uF | C10, C12, C33, C34 | 667-EEU-FS1V331LB | 4 | D 8MM PITCH 3.5MM | 35V | LOW ESSR |
| RELAYS | | | | | | |
| G5V 12 VOLTS | K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11, K12, K13, K14, K15, K16 | 653-G5V-2-DC12 | 16 | | 12V | |
| IC | | | | | | |
| TL074 | IC1, IC2, IC3, IC4 | 595-TL074CN | 4 | DIP14 | | |
| DIP14 SOCKETS | IC1, IC2, IC3, IC4 | 649-DILB14P-223TLF | 4 | DIP14 | | |
| DOA | | | | | | |
| DOA 2520 | AMP_1, AMP_2, AMP_3, AMP_4 | | 4 | 2520 | +/-16V | |
| DOA SOCKETS | AMP_1, AMP_2, AMP_3, AMP_4 | 855-H3161-01 | 24 | D 2MM | | |
| TRANSFORMERS | | | | | | |
| INPUT TRANSFORMER | EA2622, SOWTER 9820, CINEMAG CMMI-8APC, CINEMAG CMMI-8B3 | CAPI GEAR | 4 | PCB MOUNT | | |
| OUTPUT TRANSFORMER | EA2503, SOWTER 9825, CINEMAG CMOQ-2S | CAPI-GEAR | 4 | | | 4 x 150 OHM |
| MOLEX HEADER | | | | | | |
| 2 PIN 2.54 | GAIN | 538-22-29-2021 | 4 | PITCH 2.54MM | | |
| 3 PIN 2.54 | IN, OUT, | 538-22-29-2031 | 8 | PITCH 2.54MM | | |
| 4 PIN 2.54 | INPUT_XFRM DONT USE WITH PCB MOUNT TRANSFORMER | 538-22-29-2041 | 4 | PITCH 2.54MM | | |
| 6 PIN 2.54 | OUTPUT_LEVEL | 538-22-29-2061 | 4 | PITCH 2.54MM | | |
| 7 PIN 2.54 | CTRL | 538-22-29-2071 | 4 | PITCH 2.54MM | | |
| 8 PIN 2.54 | OUTPUT_XFRM | 538-22-29-2081 | 4 | PITCH 2.54MM | | |
| MOLEX CRIMP HOUSING | | | | | | |
| 2 PIN 2.54 | GAIN | 538-22-01-2027 | 4 | PITCH 2.54MM | | |
| 3 PIN 2.54 | IN, OUT, | 538-22-01-2037 | 8 | PITCH 2.54MM | | |
| 4 PIN 2.54 | INPUT_XFRM DONT USE WITH PCB MOUNT TRANSFORMER | 538-22-01-2047 | 4 | PITCH 2.54MM | | |
| 6 PIN 2.54 | OUTPUT_LEVEL | 538-22-01-2067 | 4 | PITCH 2.54MM | | |
| 7 PIN 2.54 | CTRL | 538-22-01-2077 | 4 | PITCH 2.54MM | | |
| 8 PIN 2.54 | OUTPUT_XFRM | 538-22-01-2087 | 4 | PITCH 2.54MM | | |
| Solder Terminals 2.54 | | 538-08-52-0123 | 132 | | | |
| TERMINAL BLOCKS | | | | | | |
| 2 PIN 5.08 | GND, PSU | 651-1985920 | 2 | PITCH 5.08 | | |