

| <b>FM EXCITER BOARD</b> |             |          |
|-------------------------|-------------|----------|
| COMPONENT               | DESCRIPTION | FORMAT   |
| C1                      | 100uF 16V   | SMD      |
| C2                      | 100n        | 1206 SMD |
| C3                      | 1N          | 1206 SMD |
| C4                      | 1N          | 1206 SMD |
| C4                      | 1N          | 1206 SMD |
| C5                      | 33P         | 1206 SMD |
| C6                      | 82P         | 1206 SMD |
| C7                      | 100P        | 1206 SMD |
| C7                      | 100P        | 1206 SMD |
| C8                      | 100P        | 1206 SMD |
| C9                      | 100N        | 1206 SMD |
| C10                     | 100N        | 1206 SMD |
| C11                     | 470N        | 1206 SMD |
| C12                     | 100N        | 1206 SMD |
| C13                     | 1N          | 1206 SMD |
| C15                     | 1N          | 1206 SMD |
| C16                     | 100N        | 1206 SMD |
| C17                     | 100U 16V    | SMD      |
| C18                     | 100N        | 1206 SMD |
| C19                     | 470N        | 1206 SMD |
| C20                     | 10U 16V     | 2512 SMD |
| C21                     | 100N        | 1206 SMD |
| C22                     | 1N          | 1206 SMD |
| C23                     | 1N          | 1206 SMD |
| C24                     | 330P        | 1206 SMD |
| C25                     | 10P         | 1206 SMD |
| C25                     | 1N          | 1206 SMD |
| C26                     | 1N          | 1206 SMD |
| C27                     | 1N          | 1206 SMD |
| C28                     | 1N          | 1206 SMD |
| C30                     | 1N          | 1206 SMD |
| C32                     | 100N        | 1206 SMD |
| C33                     | 100N        | 1206 SMD |
| C34                     | 100N        | 1206 SMD |
| C35                     | 1N          | 1206 SMD |
| C36                     | 220P        | 1206 SMD |
| C37                     | 1N          | 1206 SMD |
| C38                     | 33P         | 1206 SMD |
| C39                     | 220P        | 1206 SMD |
| C40                     | 68P         | 1206 SMD |
| C41                     | 1U          | 1206 SMD |
| C42                     | 100P        | 1206 SMD |
| C43                     | 1N          | 1206 SMD |
| C44                     | 1N          | 1206 SMD |
| C45                     | 100P        | 1206 SMD |
| C46                     | 27P         | 1206 SMD |
| C47                     | 27P         | 1206 SMD |
| C48                     | 3P3         | 1206 SMD |
| C49                     | 100P        | 1206 SMD |
| C51                     | 100N        | 1206 SMD |
| C52                     | 100U 16V    | SMD      |
| C53                     | 100N        | 1206 SMD |
| C54                     | 100N        | 1206 SMD |
| C55                     | 100N        | 1206 SMD |

|     |        |            |
|-----|--------|------------|
| C56 | 100N   | 1206 SMD   |
| D1  | BAT54S | SOT23 SMD  |
| D2  | BAT54S | SOT23 SMD  |
| D3  | BAT54S | SOT23 SMD  |
| D4  | BB153  | SOT23 SMD  |
| D5  | BB153  | SOT23 SMD  |
| D6  | BB153  | SOT23 SMD  |
| D7  | BB153  | SOT23 SMD  |
| D8  | BAW56  | SOT23 SMD  |
| DZ1 | C9V1   | SMD        |
| IC1 | LM358  | SOIC8 SMD  |
| IC2 | MB1501 | SOIC16 SMD |
| L1  | 100uH  | 2512 SMD   |
| L10 | 1U     | 2512 SMD   |
| L11 | 100N   | 2512 SMD   |
| L12 | 220N   | 2512 SMD   |
| L5  | 470N   | 2512 SMD   |
| L6  | 2U2    | 2512 SMD   |
| L8  | 1U     | 2512 SMD   |
| L9  | 220N   | 2512 SMD   |
| R01 | 470R   | 1206 SMD   |
| R02 | 10K    | 1206 SMD   |
| R03 | 330R   | 1206 SMD   |
| R04 | 330R   | 1206 SMD   |
| R05 | 100R   | 1206 SMD   |
| R06 | 1M     | 1206 SMD   |
| R07 | 1M     | 1206 SMD   |
| R08 | 100K   | 1206 SMD   |
| R09 | 2M2    | 1206 SMD   |
| R10 | 1M     | 1206 SMD   |
| R11 | 150K   | 1206 SMD   |
| R12 | 220K   | 1206 SMD   |
| R13 | 47K    | 1206 SMD   |
| R14 | 100K   | 1206 SMD   |
| R15 | 100K   | 1206 SMD   |
| R16 | 220R   | 1206 SMD   |
| R17 | 220R   | 1206 SMD   |
| R18 | 100R   | 1206 SMD   |
| R19 | 10K    | 1206 SMD   |
| R20 | 15K    | 1206 SMD   |
| R21 | 330R   | 1206 SMD   |
| R22 | 0R0    | 1206 SMD   |
| R23 | 0R0    | 1206 SMD   |
| R24 | 0R0    | 1206 SMD   |
| R25 | 330R   | 1206 SMD   |
| R26 | 47R    | 1206 SMD   |
| R27 | 100R   | 1206 SMD   |
| R28 | 100R   | 1206 SMD   |
| R29 | 10K    | 1206 SMD   |
| R30 | 330R   | 1206 SMD   |
| R31 | 22R    | 1206 SMD   |
| R32 | 220R   | 1206 SMD   |
| R33 | 27K    | 1206 SMD   |
| R34 | 180R   | 1206 SMD   |
| R35 | 47R    | 1206 SMD   |
| R36 | 47R    | 1206 SMD   |

|       |         |            |
|-------|---------|------------|
| R37   | 47R     | 1206 SMD   |
| R38   | 100R    | 1206 SMD   |
| R39   | 100R    | 1206 SMD   |
| R40   | 56R     | 1206 SMD   |
| R41   | 1K      | 1206 SMD   |
| R42   | 10R     | 1206 SMD   |
| R44   | 1K      | 1206 SMD   |
| R45   | 56R     | 1206 SMD   |
| R46   | 1R      | 1206 SMD   |
| R48   | 220K    | 1206 SMD   |
| R49   | 2K2     | 1206 SMD   |
| R50   | 10K     | 1206 SMD   |
| R51   | 10K     | 1206 SMD   |
| R52   | 1K5     | 1206 SMD   |
| R53   | 10K     | 1206 SMD   |
| R54   | 470R    | 1206 SMD   |
| R55   | 470R    | 1206 SMD   |
| R56   | 100R    | 1206 SMD   |
| R57   | 1K      | 1206 SMD   |
| R58   | 1K      | 1206 SMD   |
| R59   | 1K5     | 1206 SMD   |
| R60   | 3K3     | 1206 SMD   |
| R61   | 4K7     | 1206 SMD   |
| R62   | 4K7     | 1206 SMD   |
| R63   | 4K7     | 1206 SMD   |
| R64   | 100K    | 1206 SMD   |
| R65   | 100K    | 1206 SMD   |
| RT1   | 10K     | SMD        |
| TR1   | BCR133  | SOT23 SMD  |
| TR2   | BCR133  | SOT23 SMD  |
| TR3   | BCR133  | SOT23 SMD  |
| TR4   | BFR93A  | SOT23 SMD  |
| TR5   | SST310  | SOT23 SMD  |
| TR6   | SST310  | SOT23 SMD  |
| TR7   | BFR93A  | SOT23 SMD  |
| TR8   | BFR93A  | SOT23 SMD  |
| TR9   | BSP122  | SOT223 SMD |
| TR10  | BSP122  | SOT223 SMD |
| TXCO1 | 12.6MHZ | SMD        |

| <b>MAINBOARD</b> |             |          |
|------------------|-------------|----------|
| COMPONENT        | DESCRIPTION | FORMAT   |
| C1               | 100U 25V    | SMD      |
| C2               | 100U 25V    | SMD      |
| C3               | 1N          | 1206 SMD |
| C4               | 1N          | 1206 SMD |
| C5               | 1N          | 1206 SMD |
| C6               | 1N          | 1206 SMD |
| C7               | 1N          | 1206 SMD |
| C8               | 220P        | 1206 SMD |
| C9               | 10P         | 1206 SMD |
| C10              | 10P         | 1206 SMD |
| C11              | 10P         | 1206 SMD |
| C12              | 10P         | 1206 SMD |
| C13              | 100N        | 1206 SMD |
| C13              | 22P         | 1206 SMD |
| C14              | 100N        | 1206 SMD |
| C15              | 100N        | 1206 SMD |
| C16              | 100N        | 1206 SMD |
| C17              | 100N        | 1206 SMD |
| C18              | 100N        | 1206 SMD |
| C21              | 1N          | 1206 SMD |
| C22              | 1N          | 1206 SMD |
| C23              | 1N          | 1206 SMD |
| C23              | 1N          | 1206 SMD |
| C24              | 100P        | 1206 SMD |
| C24              | 100P        | 1206 SMD |
| C24              | 100P        | 1206 SMD |
| C24              | 1N          | 1206 SMD |
| C25              | 100P        | 1206 SMD |
| C25              | 1N          | 1206 SMD |
| C26              | 100P        | 1206 SMD |
| C26              | 1N          | 1206 SMD |
| C27              | 1N          | 1206 SMD |
| C29              | 100N        | 1206 SMD |
| C30              | 100N        | 1206 SMD |
| C30              | 1N          | 1206 SMD |
| C31              | 100N        | 1206 SMD |
| C32              | 100N        | 1206 SMD |
| C33              | 4N7         | 1206 SMD |
| C33              | 22N         | 1206 SMD |
| C34              | 1N          | 1206 SMD |
| C36              | 470P        | 1206 SMD |
| C36              | 22N         | 1206 SMD |
| C37              | 47K         | 1206 SMD |
| C39              | 1N          | 1206 SMD |
| C41              | 100N        | 1206 SMD |
| C47              | 1U          | 1206 SMD |
| C48              | 1U          | 1206 SMD |
| C49              | 100N        | 1206 SMD |
| C50              | 100N        | 1206 SMD |
| C51              | 100N        | 1206 SMD |
| C54              | 100N        | 1206 SMD |
| C55              | 100N        | 1206 SMD |
| C56              | 100P        | 1206 SMD |

|     |         |                 |
|-----|---------|-----------------|
| C57 | 2N2     | 1206 SMD        |
| C58 | 2N2     | 1206 SMD        |
| C59 | 47P     | 1206 SMD        |
| C60 | 47P     | 1206 SMD        |
| C61 | 1N      | 1206 SMD        |
| C62 | 1N      | 1206 SMD        |
| C63 | 220P    | 1206 SMD        |
| C64 | 47P     | 1206 SMD        |
| C64 | 220P    | 1206 SMD        |
| C65 | 2N2     | 1206 SMD        |
| C66 | 2N2     | 1206 SMD        |
| C68 | 47P     | 1206 SMD        |
| C69 | 10N     | 1206 SMD        |
| C70 | 10N     | 1206 SMD        |
| C71 | 4N7     | 1206 SMD        |
| C72 | 10N     | 1206 SMD        |
| C73 | 8N2     | 1206 SMD        |
| C74 | 10N     | 1206 SMD        |
| C75 | 8N2     | 1206 SMD        |
| C76 | 10N     | 1206 SMD        |
| C77 | 100N    | 1206 SMD        |
| C78 | 100N    | 1206 SMD        |
| C79 | 100N    | 1206 SMD        |
| C80 | 100N    | 1206 SMD        |
| C81 | 100N    | 1206 SMD        |
| C82 | 100N    | 1206 SMD        |
| C83 | 47N     | 1206 SMD        |
| C84 | 1N      | 1206 SMD        |
| D1  | BAV99   | SOT23 SMD       |
| D10 | BAV99   | SOT23 SMD       |
| D11 | BAW56   | SOT23 SMD       |
| D12 | BAW56   | SOT23 SMD       |
| D13 | BAW56   | SOT23 SMD       |
| D14 | BAW56   | SOT23 SMD       |
| D15 | BAV99   | SOT23 SMD       |
| D16 | BAV99   | SOT23 SMD       |
| D17 | BAV99   | SOT23 SMD       |
| D18 | BAV99   | SOT23 SMD       |
| D2  | BAV99   | SOT23 SMD       |
| D3  | BAV99   | SOT23 SMD       |
| D4  | BAV99   | SOT23 SMD       |
| D5  | BAV99   | SOT23 SMD       |
| D6  | C12V0   | ZENER DIODE SMD |
| D7  | C12V0   | ZENER DIODE SMD |
| D8  | C5V6    | ZENER DIODE SMD |
| D9  | BAV99   | SOT23 SMD       |
| DZ1 | C12V0   | ZENER DIODE SMD |
| DZ2 | C12V0   | ZENER DIODE SMD |
| DZ3 | C5V1    | ZENER DIODE SMD |
| DZ4 | C6V2    | ZENER DIODE SMD |
| DZ5 | C6V2    | ZENER DIODE SMD |
| IC1 | TL074   | SOIC14 SMD      |
| IC2 | TL074   | SOIC14 SMD      |
| IC3 | MC34082 | SOIC14 SMD      |
| IC4 | TL074   | SOIC14 SMD      |

|      |            |             |
|------|------------|-------------|
| IC5  | 75155      | SOIC14 SMD  |
| IC7  | TL072      | SOIC14 SMD  |
| IC8  | TL1973     | WSOIC20 SMD |
| IC8  | TL072      | SOIC14 SMD  |
| IC9  | 4316       | SOIC14 SMD  |
| IC10 | TL074      | SOIC14 SMD  |
| IC11 | TL074      | SOIC14 SMD  |
| IC12 | TL074      | SOIC14 SMD  |
| IC13 | MC34084    | SOIC14 SMD  |
| IC14 | 4052B      | SOIC16 SMD  |
| IC15 | 4094B      | SOIC16 SMD  |
| J5   | RS232 DB9F |             |
| JP1  | JUMPER3    |             |
| JP2  | JUMPER3    |             |
| L1   | 1U         | 2512 SMD    |
| L2   | 1U         | 2512 SMD    |
| P1   | IDC26      |             |
| P6   | IDC10      |             |
| P9   | IDC14      |             |
| R01  | 5K6        | 1206 SMD    |
| R02  | 5K6        | 1206 SMD    |
| R03  | 5K6        | 1206 SMD    |
| R04  | 5K6        | 1206 SMD    |
| R05  | 10K        | 1206 SMD    |
| R06  | 82R        | 1206 SMD    |
| R07  | 82R        | 1206 SMD    |
| R08  | 560R       | 1206 SMD    |
| R09  | 560R       | 1206 SMD    |
| R10  | 100R       | 1206 SMD    |
| R11  | 100R       | 1206 SMD    |
| R12  | 100R       | 1206 SMD    |
| R13  | 100R       | 1206 SMD    |
| R14  | 100R       | 1206 SMD    |
| R15  | 10K        | 1206 SMD    |
| R15  | 100R       | 1206 SMD    |
| R16  | 10K        | 1206 SMD    |
| R17  | 10K        | 1206 SMD    |
| R18  | 10K        | 1206 SMD    |
| R19  | 5K6        | 1206 SMD    |
| R19  | 5K6        | 1206 SMD    |
| R20  | 5K6        | 1206 SMD    |
| R20  | 5K6        | 1206 SMD    |
| R24  | 4K7        | 1206 SMD    |
| R25  | 4K7        | 1206 SMD    |
| R26  | 220R       | 1206 SMD    |
| R26  | 10K        | 1206 SMD    |
| R27  | 10K        | 1206 SMD    |
| R28  | 10K        | 1206 SMD    |
| R33  | 470R       | 1206 SMD    |
| R34  | 10K        | 1206 SMD    |
| R35  | 4K7        | 1206 SMD    |
| R36  | 56K        | 1206 SMD    |
| R37  | 56K        | 1206 SMD    |
| R38  | 270R       | 1206 SMD    |
| R39  | 270R       | 1206 SMD    |

|     |      |          |
|-----|------|----------|
| R40 | 10K  | 1206 SMD |
| R41 | 10K  | 1206 SMD |
| R42 | 1K   | 1206 SMD |
| R43 | 1K   | 1206 SMD |
| R44 | 3K9  | 1206 SMD |
| R45 | 3K9  | 1206 SMD |
| R46 | 1K   | 1206 SMD |
| R46 | 1K   | 1206 SMD |
| R47 | 1K   | 1206 SMD |
| R48 | 1K   | 1206 SMD |
| R49 | 100K | 1206 SMD |
| R49 | 100K | 1206 SMD |
| R50 | 100K | 1206 SMD |
| R51 | 100R | 1206 SMD |
| R52 | 56K  | 1206 SMD |
| R53 | 15K  | 1206 SMD |
| R54 | 3M3  | 1206 SMD |
| R56 | 1K5  | 1206 SMD |
| R57 | 470R | 1206 SMD |
| R58 | 475R | 1206 SMD |
| R59 | 475R | 1206 SMD |
| R59 | 6K8  | 1206 SMD |
| R60 | 475R | 1206 SMD |
| R60 | 15K  | 1206 SMD |
| R61 | 15K  | 1206 SMD |
| R62 | 15K  | 1206 SMD |
| R63 | 15K  | 1206 SMD |
| R64 | 10K  | 1206 SMD |
| R70 | 820R | 1206 SMD |
| R71 | 820R | 1206 SMD |
| R72 | 2K2  | 1206 SMD |
| R73 | 1K8  | 1206 SMD |
| R74 | 1K8  | 1206 SMD |
| R75 | 33R  | 1206 SMD |
| R76 | 33R  | 1206 SMD |
| R77 | 470R | 1206 SMD |
| R78 | 470R | 1206 SMD |
| R79 | 10K  | 1206 SMD |
| R80 | 10K  | 1206 SMD |
| R83 | 180R | 1206 SMD |
| R84 | 180R | 1206 SMD |
| R85 | 680R | 1206 SMD |
| R86 | 680R | 1206 SMD |
| R87 | 22K  | 1206 SMD |
| R88 | 22K  | 1206 SMD |
| R89 | 1M   | 1206 SMD |
| R90 | 1M   | 1206 SMD |
| R91 | 1K8  | 1206 SMD |
| R92 | 1K8  | 1206 SMD |
| R93 | 470R | 1206 SMD |
| R94 | 1K8  | 1206 SMD |
| R95 | 3K3  | 1206 SMD |
| R96 | 470R | 1206 SMD |
| R97 | 100K | 1206 SMD |
| R98 | 5K6  | 1206 SMD |

|      |        |           |
|------|--------|-----------|
| R99  | 220R   | 1206 SMD  |
| R100 | 180R   | 1206 SMD  |
| R101 | 560R   | 1206 SMD  |
| R102 | 560R   | 1206 SMD  |
| R103 | 6K8    | 1206 SMD  |
| R104 | 1K8    | 1206 SMD  |
| R105 | 470R   | 1206 SMD  |
| R106 | 120R   | 1206 SMD  |
| R107 | 120K   | 1206 SMD  |
| R108 | 100R   | 1206 SMD  |
| R109 | 180R   | 1206 SMD  |
| R110 | 330R   | 1206 SMD  |
| R111 | 270R   | 1206 SMD  |
| R112 | 270R   | 1206 SMD  |
| R113 | 220R   | 1206 SMD  |
| R114 | 4K7    | 1206 SMD  |
| R114 | 4K7    | 1206 SMD  |
| R115 | 1K5    | 1206 SMD  |
| R116 | 330R   | 1206 SMD  |
| R116 | 470R   | 1206 SMD  |
| R117 | 820R   | 1206 SMD  |
| R117 | 330R   | 1206 SMD  |
| R120 | 1K2    | 1206 SMD  |
| R122 | 4K7    | 1206 SMD  |
| R123 | 1K     | 1206 SMD  |
| R124 | 100R   | 1206 SMD  |
| R125 | 680R   | 1206 SMD  |
| R126 | 1K     | 1206 SMD  |
| R127 | 2K2    | 1206 SMD  |
| R128 | 3K3    | 1206 SMD  |
| R129 | 470R   | 1206 SMD  |
| R130 | 82R    | 1206 SMD  |
| R131 | 1K2    | 1206 SMD  |
| R132 | 2K2    | 1206 SMD  |
| R133 | 4K7    | 1206 SMD  |
| R134 | 1K8    | 1206 SMD  |
| R135 | 1K5    | 1206 SMD  |
| R136 | 1K     | 1206 SMD  |
| R137 | 5K6    | 1206 SMD  |
| R140 | 2K2    | 1206 SMD  |
| R142 | 4K7    | 1206 SMD  |
| R142 | 47R    | 1206 SMD  |
| R143 | 15K    | 1206 SMD  |
| R144 | 15K    | 1206 SMD  |
| R145 | 3K9    | 1206 SMD  |
| R146 | 3K9    | 1206 SMD  |
| R148 | 10K    | 1206 SMD  |
| R149 | 10K    | 1206 SMD  |
| RT1  | 20K    | SMD       |
| RT2  | 20K    | SMD       |
| RT3  | 10K    | SMD       |
| RT6  | 5K0    | SMD       |
| RT7  | 5K     | SMD       |
| RT8  | 10K    | SMD       |
| TR1  | BCR133 | SOT23 SMD |

|     |        |           |
|-----|--------|-----------|
| TR2 | BCR133 | SOT23 SMD |
| TR3 | BCR133 | SOT23 SMD |
| TR4 | BCR133 | SOT23 SMD |
| TR5 | BCR133 | SOT23 SMD |
| TR6 | BCR133 | SOT23 SMD |
| TR7 | BCR198 | SOT23 SMD |
| TR8 | BCR198 | SOT23 SMD |

| <b>EM25CON CPU CONTROLLER BOARD</b> |               |             |
|-------------------------------------|---------------|-------------|
| COMPONENT                           | DESCRIPTION   | FORMAT      |
| BT1                                 | 3.0V CR2032   |             |
| C1                                  | 1N            |             |
| C10                                 | 100U 25V      | ALUMINUM    |
| C11                                 | 100U 25V      | ALUMINUM    |
| C12                                 | 1N            |             |
| C13                                 | 100N          | MKT         |
| C14                                 | 100N          | MKT         |
| C15                                 | 100N          | MKT         |
| C16                                 | 100N          | MKT         |
| C17                                 | 100N          | MKT         |
| C18                                 | 220U 35V      | ALUMINUM    |
| C19                                 | 220U 35V      | ALUMINUM    |
| C2                                  | 1N            |             |
| C20                                 | 4P7           |             |
| C21                                 | 22P           |             |
| C22                                 | 22P           |             |
| C24                                 | 150N          |             |
| C25                                 | 150N          |             |
| C3                                  | 1N            |             |
| C4                                  | 1N            |             |
| C5                                  | 1N            |             |
| C6                                  | 1N            |             |
| C7                                  | 100N          | MKT         |
| C8                                  | 100N          | MKT         |
| C9                                  | 4U7 16V       | ALUMINUM    |
| CT1                                 | 2-22P         |             |
| D1                                  | SD101C        |             |
| D2                                  | SD101C        |             |
| D3                                  | SD101C        |             |
| D4                                  | SD101C        |             |
| D5                                  | SD101C        |             |
| D6                                  | SD101C        |             |
| D7                                  | 1N4148        |             |
| D8                                  | 1N4148        |             |
| D9                                  | 1N5819        |             |
| DZ1                                 | 10V           | ZENER DIODE |
| IC1                                 | TL1431        |             |
| IC2                                 | MC68HC705B16N |             |
| IC3                                 | 4051B         | DIP18       |
| IC4                                 | TL074         | DIP14       |
| IC6                                 | PCF8583       | DIP8        |
| IC7                                 | LM358         | DIP8        |
| IC8                                 | LM393         | DIP8        |
| IC9                                 | MCP130-D      |             |
| L1                                  | 10U           |             |
| L2                                  | TOR12         |             |
| P1                                  | IDC26         |             |
| P2                                  | IDC20         |             |
| P3                                  | IDC10         |             |
| R01                                 | 33R           | 0,5W 1%     |
| R02                                 | 4K75          | 0,5W 1%     |
| R03                                 | 4K75          | 0,5W 1%     |
| R04                                 | 3K32          | 0,5W 1%     |

|       |            |          |
|-------|------------|----------|
| R05   | 1K         | 0,5W 1%  |
| R06   | 1K         | 0,5W 1%  |
| R07   | 1M         | 0,5W 1%  |
| R08   | 4M7        | 0,25W 1% |
| R09   | 12K1       | 0,5W 1%  |
| R10   | 12K2       | 0,5W 1%  |
| R11   | 475K       | 0,5W 1%  |
| R12   | 100K       | 0,5W 1%  |
| R13   | 100K       | 0,5W 1%  |
| R14   | 4K75       | 0,5W 1%  |
| R15   | 1K         | 0,5W 1%  |
| R16   | 18K2       | 0,5W 1%  |
| R17   | 18K3       | 0,5W 1%  |
| R18   | 45K3       | 0,5W 1%  |
| R19   | 10K        | 0,5W 1%  |
| R20   | 10K        | 0,5W 1%  |
| R21   | 10K        | 0,5W 1%  |
| R22   | 100K       | 0,5W 1%  |
| R23   | 4K75       | 0,5W 1%  |
| R24   | 4K75       | 0,5W 1%  |
| R25   | 4K75       | 0,5W 1%  |
| R27   | 47R5       | 0,5W 1%  |
| R28   | 4K75       | 0,5W 1%  |
| R28   | 825R       | 0,5W 1%  |
| R29   | 100K       | 0,5W 1%  |
| R30   | 1K         | 0,5W 1%  |
| R31   | 1K         | 0,5W 1%  |
| R32   | 47R5       | 0,5W 1%  |
| R33   | 4K75       | 0,5W 1%  |
| R34   | 1K75       | 0,5W 1%  |
| R35   | 4K75       | 0,5W 1%  |
| R36   | 14K7       | 0,5W 1%  |
| R37   | 6K34       | 0,5W 1%  |
| R38   | 22K1       | 0,5W 1%  |
| R39   | 22K1       | 0,5W 1%  |
| R40   | 22K1       | 0,5W 1%  |
| R41   | 22K1       | 0,5W 1%  |
| R42   | 221K       | 0,5W 1%  |
| R43   | 1K21       | 0,5W 1%  |
| R44   | 1M5        | 0,25W 1% |
| R45   | 475R       | 0,5W 1%  |
| R46   | 475R       | 0,5W 1%  |
| R47   | 2K21       | 0,5W 1%  |
| R48   | 100R       | 0,5W 1%  |
| R49   | 1R         | 0,5W 1%  |
| RTH1  | KTY10-6 2K |          |
| SW1   | PUSHBUTTON |          |
| TR1   | BC337      | TO92     |
| TR2   | BS170      | TO92     |
| TR3   | BC327      | TO92     |
| TR4   | BD135      |          |
| XTAL1 | 4.0MHZ     |          |
| XTAL2 | 32768HZ    |          |

| <b>EM25KEY KEYBOARD &amp; DISPLAY</b> |                    |          |
|---------------------------------------|--------------------|----------|
| COMPONENT                             | DESCRIPTION        | FORMAT   |
| C1                                    | 4U7 16V            | ALUMINUM |
| C2                                    | 220N               | SMD      |
| D1                                    | 1N4148             |          |
| D2                                    | 1N4149             |          |
| D3                                    | 1N4150             |          |
| D4                                    | 1N4151             |          |
| D5                                    | 1N4152             |          |
| D6                                    | 1N4153             |          |
| D7                                    | 1N4154             |          |
| DL1                                   | LED DIODE          |          |
| DL2                                   | LED DIODE          |          |
| DL3                                   | LED DIODE          |          |
| DL4                                   | LED DIODE          |          |
| DL5                                   | LED DIODE          |          |
| DL6                                   | LED DIODE          |          |
| DL7                                   | LED DIODE          |          |
| IC1                                   | HC4094             |          |
| J1                                    | IDC20              |          |
| R1                                    | 681R               | SMD      |
| R2                                    | 681R               | SMD      |
| R3                                    | 681R               | SMD      |
| R4                                    | 681R               | SMD      |
| R5                                    | 681R               | SMD      |
| R6                                    | 681R               | SMD      |
| R7                                    | 681R               | SMD      |
| RT1                                   | 10K                | SMD      |
| SW1                                   | SWITCH PUSH BUTTON |          |
| SW2                                   | SWITCH PUSH BUTTON |          |
| SW3                                   | SWITCH PUSH BUTTON |          |
| SW4                                   | SWITCH PUSH BUTTON |          |
| SW5                                   | SWITCH PUSH BUTTON |          |
| SW6                                   | SWITCH PUSH BUTTON |          |
| SW7                                   | SWITCH PUSH BUTTON |          |

| <b>FAN CONTROLLER BOARD</b> |             |             |
|-----------------------------|-------------|-------------|
| COMPONENT                   | DESCRIPTION | FORMAT      |
| C1                          | 1N          |             |
| C2                          | 1N          |             |
| C3                          | 100N        |             |
| C4                          | 220U 35V    | ALUMINUM    |
| D1                          | C12V0       | ZENER DIODE |
| IC1                         | LM358       |             |
| L1                          | 1NDAS4410   |             |
| R1                          | 15K         | 0,25W       |
| R2                          | 15K         | 0,25W       |
| R3                          | 10K         | 0,25W       |
| R4                          | 10K         | 0,25W       |
| R5                          | 681K        | 0,25W       |
| R6                          | 3K32        | 0,25W       |
| TR1                         | MPS3055     |             |

| <b>POWER SUPPLY REGULATOR EM25</b> |              |             |
|------------------------------------|--------------|-------------|
| COMPONENT                          | DESCRIPTION  | FORMAT      |
| C1                                 | 100N X2      |             |
| C10                                | 22U 50V      | ALUMINUM    |
| C11                                | 100N         |             |
| C12                                | 100N         |             |
| C13                                | 4N7          |             |
| C14                                | 1N           |             |
| C15                                | 1N           |             |
| C16                                | 100P 1KV     |             |
| C17                                | 220N         |             |
| C18                                | 1U           |             |
| C19                                | 2200U 50V    | ALUMINUM    |
| C2                                 | 4N7 Y2       |             |
| C20                                | 470U 35V     | ALUMINUM    |
| C21                                | 470U 35V     | ALUMINUM    |
| C22                                | 220U 35V     | ALUMINUM    |
| C23                                | 220U 35V     | ALUMINUM    |
| C24                                | 220U 35V     | ALUMINUM    |
| C25                                | 2U2 35V      | ALUMINUM    |
| C26                                | 4N7          |             |
| C3                                 | 4N7 Y2       |             |
| C4                                 | 4N7 Y2       |             |
| C5                                 | 470U 200V    | ALUMINUM    |
| C6                                 | 470U 200V    | ALUMINUM    |
| C7                                 | 100N X2      |             |
| C8                                 | 100N X2      |             |
| C9                                 | 22U 50V      | ALUMINUM    |
| D1                                 | SSF14        |             |
| D2                                 | UF4007       |             |
| D3                                 | BYW29-200    |             |
| D4                                 | SSF14        |             |
| D5                                 | SSF14        |             |
| DB1                                | W08M         |             |
| DZ1                                | 100V         |             |
| DZ2                                | 100V         |             |
| DZ3                                | 100V         |             |
| DZ4                                | 18V          | ZENER DIODE |
| IC1                                | UC3844N      |             |
| IC2                                | CNY17-3X     |             |
| IC3                                | TL431        |             |
| IC4                                | TL431        |             |
| L1                                 | AC COMM FILT |             |
| L2                                 | INDT002      |             |
| NTC1                               | 16R          |             |
| P2                                 | IDC14        |             |
| R10                                | 6K81         |             |
| R11                                | 10K          |             |
| R12                                | 10R          |             |
| R13                                | 475R         |             |
| R14                                | 1R           |             |
| R15                                | 1R           |             |
| R16                                | 82R 2W       |             |
| R17                                | 82R 2W       |             |
| R18                                | 47R 2W       |             |

|     |         |
|-----|---------|
| R19 | 4K75    |
| R2  | 150K    |
| R20 | 1K      |
| R21 | 249R    |
| R22 | 10R     |
| R23 | 10K     |
| R24 | 10K2    |
| R25 | 1K      |
| R26 | 1K      |
| R27 | 1K      |
| R28 | 3K32    |
| R3  | 150K    |
| R4  | 56K2    |
| R5  | 56K3    |
| R6  | 56K4    |
| R7  | 1K82    |
| R8  | 3K32    |
| R9  | 10K     |
| T1  | TFF/90A |
| TR1 | BC337   |
| TR2 | PSNA80  |
| TR3 | BD911   |
| TR4 | BD911   |

| <b>FM 25W POWER AMPLIFIER</b> |             |             |
|-------------------------------|-------------|-------------|
| COMPONENT                     | DESCRIPTION | FORMAT      |
| C1                            | 68P         | SMD         |
| C10                           | 15P         | SMD         |
| C11                           | 10P         | SMD         |
| C12                           | 10P         | SMD         |
| C13                           | 18P         | SMD         |
| C13'                          | 1N          | SMD         |
| C14                           | 33P         | SMD         |
| C15                           | 15P         | SMD         |
| C16                           | 15P         | SMD         |
| C17                           | 3P9         | SMD         |
| C18                           | 33P         | SMD         |
| C19                           | 33P         | SMD         |
| C2                            | 1N          | SMD         |
| C20                           | 100P        | SMD         |
| C21                           | 100P        | SMD         |
| C22                           | 100P        | SMD         |
| C22                           | 1N          | SMD         |
| C23                           | 100P        | SMD         |
| C24                           | 33P         | SMD         |
| C25                           | 1N          | SMD         |
| C26                           | 1N          | SMD         |
| C29                           | 1N          | SMD         |
| C3                            | 1N          | SMD         |
| C4                            | 1U          | SMD         |
| C5                            | 10N         | SMD         |
| C6                            | 27P         | SMD         |
| C7                            | 18P         | SMD         |
| C8                            | 18P         | SMD         |
| C9                            | 1N          | SMD         |
| D1                            | BAV99       | SMD         |
| D2                            | C5V1        | ZENER DIODE |
| D3                            | SD103A      |             |
| D4                            | SD103A      |             |
| L1                            | 220N        |             |
| L5                            | VK200       |             |
| R1                            | 51R         | 1206 SMD    |
| R10                           | 120R        | 1206 SMD    |
| R11                           | 1K          | 1206 SMD    |
| R12                           | 1K          | 1206 SMD    |
| R13                           | 82R         | 1206 SMD    |
| R2                            | 12R         | 1206 SMD    |
| R3                            | 470R        | 1206 SMD    |
| R4                            | 390R        | 1206 SMD    |
| R5                            | 33R         | 1206 SMD    |
| R6                            | 470R        | 1206 SMD    |
| R7                            | 1K          | 1206 SMD    |
| R8                            | 10R         | 1206 SMD    |
| R9                            | 120R        | 1206 SMD    |
| RT1                           | 2K2         | TRIMMER     |
| TR1                           | BLF245      |             |