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|--|---------------|--------------------|--|----------------|-----------|------|
| | | | | | | |
| 2 | 6/6/02 | CREATED -02 | N00824 | | | |
| Rev. | Date | DESC. | ECR(s)/ECN(s) | Chgd by | Appvd by | DATE |
| THE INFORMATION CONTAINED ON THIS DRAWING IS PROPRIETARY TO ST. LOUIS MUSIC, INC. | | | | | | |
| | | | SLM Electronics 11880 Borman Drive, St. Louis, MO 63146 | | | |
| Signatures: | | Date: | | | | |
| Drawn: WFB | | 6/6/02 | | | | |
| Checked: | | | | First Used On: | PB250 | |
| Released: | | | | | | |
| Tolerance: | Drawing Size: | A | | Drawing Title: | BASS AMP | |
| | Drawing Type: | PL | | | | |
| | Class Code: | | | Drawing No.: | 07-459-PL | |
| | Scale: | N/A | | | | |

ASSEMBLY PART #

07-459-02

REVISION 2

| ITEM | P/N | QTY | DESC | VALUE | LABEL |
|------|-----------|-----|--------------------------------------|--------|-------|
| PWB1 | 06A459-02 | 1 | PWB, CLASS D | | |
| C15 | 10-105-01 | 4 | 1 uF 250Vdc 5% POLY | 1 | |
| C16 | | | | | |
| C35 | | | | | |
| C54 | | | | | |
| C57 | 10-224-25 | 4 | .22 uF 250V EVOX MTLPOLY | 0.22 | |
| C71 | | | | | |
| C72 | | | | | |
| C73 | | | | | |
| C1 | 10-471-02 | 1 | 470 pF 100V EVOX/NON-STOCK | 470pF | |
| C20 | 10-474-03 | 4 | .47 uF 100V | 0.47 | |
| C21 | | | | | |
| C22 | | | | | |
| C36 | | | | | |
| C64 | 10A101-21 | 1 | 100 pF 200V 10% NPO | 100 pF | |
| C3 | 10A102-11 | 14 | .001 uF 100V 10% X7R | 0.001 | |
| C8 | | | | | |
| C9 | | | | | |
| C26 | | | | | |
| C27 | | | | | |
| C29 | | | | | |
| C37 | | | | | |
| C38 | | | | | |
| C39 | | | | | |
| C40 | | | | | |
| C44 | | | | | |
| C46 | | | | | |
| C47 | | | | | |
| C48 | | | | | |
| C2 | 10A104-01 | 6 | .1 uF 50V 10% X7R | 0.1 | |
| C30 | | | | | |
| C33 | | | | | |
| C49 | | | | | |
| C59 | | | | | |
| C62 | | | | | |
| C24 | 10A224-01 | 1 | .22 uF 50V 10% X7R | 0.22 | |
| C6 | 10A331-11 | 2 | 330 pF 100V 10% NPO | 330 pF | |
| C7 | | | | | |
| C23 | 10A332-01 | 1 | .0033 uF 100V 10% X7R | 0.0033 | |
| C17 | 10A471-11 | 2 | 470 pF 100V 5% NPO | 470 pF | |
| C18 | | | | | |
| C43 | 10A560-21 | 3 | 56 pF 200V 5% NPO | 56 pF | |
| C74 | | | | | |
| C82 | | | | | |
| C14 | 10R102-30 | 10 | .001uF 100V [10% TOL] .1LS COG (NPO) | 0.001 | |
| C28 | | | | | |
| C41 | | | | | |
| C42 | | | | | |
| C45 | | | | | |

ASSEMBLY PART #

07-459-02

REVISION 2

| ITEM | P/N | QTY | DESC | VALUE | LABEL |
|------|-----------|-----|---------------------------------|-----------|-------|
| C56 | | | | | |
| C75 | | | | | |
| C76 | | | | | |
| C77 | | | | | |
| C78 | | | | | |
| C63 | 10R103-05 | 4 | .01 uF 100V 10% RAD POLY WIMA | 0.01 | |
| C65 | | | | | |
| C66 | | | | | |
| C80 | | | | | |
| C10 | 10R104-30 | 9 | .1uF 100V [10% TOL] .1LS X7R | 0.1 | |
| C11 | | | | | |
| C12 | | | | | |
| C34 | | | | | |
| C52 | | | | | |
| C53 | | | | | |
| C60 | | | | | |
| C61 | | | | | |
| C81 | | | | | |
| C79 | 12-337-03 | 1 | 330 uF 100V 20% EL | 330 | |
| C19 | 12-688-10 | 1 | 6800 uF 100V 20% EL | 6800 | |
| C50 | 12R105-50 | 2 | 1 uF 50V 20% EL | 1 | |
| C58 | | | | | |
| C68 | 12R106-36 | 1 | 10 uF 35V 20% EL NP | 10 | |
| C25 | 12R225-50 | 2 | 2.2 uF 50V 20% EL | 2.2 | |
| C51 | | | | | |
| C4 | 12R226-81 | 2 | 22 uF 50V 20% EL NP | 22 | |
| C5 | | | | | |
| C13 | 12R476-35 | 3 | 47 uF 35V 20% EL | 47 | |
| C31 | | | | | |
| C32 | | | | | |
| J3 | 17-105-07 | 1 | .1 ST POL LOCK MTSS100-7 HEADER | {Value} | |
| J2 | 17-309-04 | 1 | .156 ST POL MPSS156-4-D HEADER | 0 | |
| J1 | 17-894-01 | 2 | .187 PC TAB STBL LOC 6024-6 | | |
| J4 | | | | | |
| DB1 | 21-210-01 | 1 | 8A 400V BRIDGE RECT.. | KBU1004G | |
| D2 | 21A105-01 | 4 | 400V PIV 1A RECTIFIER D0-41 PKG | SF16 | |
| D3 | | | | | |
| D13 | | | | | |
| D16 | | | | | |
| D9 | 21A443-01 | 3 | 13V 1W ZENER 10 ohm Zz | 1N4743ARL | |
| D27 | | | | | |
| D31 | | | | | |
| D32 | 21A454-01 | 4 | 39V 1W ZENER | 1N4754ARL | |
| D33 | | | | | |
| D34 | | | | | |
| D35 | | | | | |
| D22 | 21A754-01 | 3 | 6.8V .5W ZENER 5 ohm Zz | 1N754ARL | |
| D36 | | | | | |
| D37 | | | | | |
| D4 | 21A819-01 | 4 | 40V PIV SCHOTTKY 1A Io .6Vf@1mA | 1N5819 | |

ASSEMBLY PART #

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REVISION 2

| ITEM | P/N | QTY | DESC | VALUE | LABEL |
|------|-----------|-----|--------------------------------------|-----------|-------|
| D5 | | | | | |
| D6 | | | | | |
| D7 | | | | | |
| D1 | 21A914-01 | 23 | 75V PIV 10mA/1V .5W | 1N914 | |
| D8 | | | | | |
| D10 | | | | | |
| D11 | | | | | |
| D14 | | | | | |
| D15 | | | | | |
| D17 | | | | | |
| D19 | | | | | |
| D20 | | | | | |
| D21 | | | | | |
| D24 | | | | | |
| D25 | | | | | |
| D28 | | | | | |
| D29 | | | | | |
| D30 | | | | | |
| D38 | | | | | |
| D39 | | | | | |
| D40 | | | | | |
| D41 | | | | | |
| D42 | | | | | |
| D43 | | | | | |
| D44 | | | | | |
| D45 | | | | | |
| FC1 | 23-926-02 | 2 | Universal Fuse Clip | 23-926-02 | |
| FC2 | | | | | |
| HW4 | 30-440-02 | 4 | 4-40 X 3/8 PPH M/S | 440 | |
| HW5 | | | | | |
| HW6 | | | | | |
| HW7 | | | | | |
| HW2 | 30-638-53 | 2 | 6-32X3/8 PPH MS SEMS | 11841 | |
| HW3 | | | | | |
| HW1 | 30-650-52 | 1 | 6-32 X 1/2 PPH TR3 TFS | | |
| HS2 | 33-105-01 | 1 | HEAT COUPLING BLOCK | | |
| HS1 | 33-106-01 | 1 | RECTIFIER HS | 0 | |
| INS5 | 35-105-01 | 4 | HI TEMP INS SHLDR WASHER | | |
| INS6 | | | | | |
| INS7 | | | | | |
| INS8 | | | | | |
| INS1 | 35-417-01 | 4 | AL.OXIDE INSUL. TO-220 | | |
| INS2 | | | | | |
| INS3 | | | | | |
| INS4 | | | | | |
| U4 | 37-050-01 | 2 | LM319A HIGH SPEED DUAL COMPARATC | LM319A | |
| U5 | | | | | |
| U3 | 37-072-01 | 2 | TLO-72CP DUAL OP-AMP | TLO-72 | |
| U7 | | | | | |
| U2 | 37-100-01 | 1 | 10V/2.5A H.F. FULL BRIDGE FET DRIVEF | HIP4080A | |

ASSEMBLY PART #

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REVISION 2

| ITEM | P/N | QTY | DESC | VALUE | LABEL |
|------|-----------|-----|---------------------------------|---------|-------|
| U1 | 37-275-01 | 1 | OP275GP DUAL OP IC | OP275GP | |
| U6 | 37-291-01 | 1 | NJM2901M QUAD COMPARATOR | NJM2901 | |
| IC1 | 37R350-01 | 1 | LM35DZ 10mV/DEG C. TEMP. SENSOR | LM35DZ | |
| OC1 | 66-100-01 | 1 | VTL-5C7 VACTROL | VTL-5C7 | |
| R4 | 76-010-01 | 1 | 1 OHM .25W 5% RESISTOR | 1 | |
| R3 | 76-047-01 | 8 | 4.7 OHM .25W 5% RESISTOR | 4.7 | |
| R12 | | | | | |
| R14 | | | | | |
| R15 | | | | | |
| R16 | | | | | |
| R65 | | | | | |
| R67 | | | | | |
| R69 | | | | | |
| R32 | 76-101-01 | 4 | 100 OHM .25W 5% RESISTOR | 100 | |
| R37 | | | | | |
| R47 | | | | | |
| R89 | | | | | |
| R10 | 76-102-01 | 5 | 1K OHM .25W 5% RESISTOR | 1K | |
| R36 | | | | | |
| R40 | | | | | |
| R60 | | | | | |
| R85 | | | | | |
| R5 | 76-103-01 | 4 | 10K OHM .25W 5% RESISTOR | 10K | |
| R44 | | | | | |
| R83 | | | | | |
| R102 | | | | | |
| R17 | 76-103-02 | 6 | 10K OHM .25W 1% RESISTOR | | |
| R18 | | | | | |
| R19 | | | | | |
| R20 | | | | | |
| R42 | | | | | |
| R72 | | | | | |
| R45 | 76-104-01 | 2 | 100K OHM .25W 5% RESISTOR | 100K | |
| R78 | | | | | |
| R34 | 76-123-01 | 1 | 12K OHM .25W 5% RESISTOR | 12K | |
| R88 | 76-152-01 | 1 | 1.5K OHM .25W 5% RESISTOR | 1.5K | |
| R38 | 76-153-01 | 1 | 15K OHM .25W 5% RESISTOR | 15K | |
| R9 | 76-153-02 | 3 | 15.4K OHM .25W 1% RESISTOR | 15.4K | |
| R13 | | | | | |
| R64 | | | | | |
| R90 | 76-182-01 | 1 | 1.8K OHM .25W 5% RESISTOR | 1.8K | |
| R54 | 76-221-01 | 1 | 220 OHM .25W 5% RESISTOR | 220 | |
| R33 | 76-223-01 | 2 | 22K OHM .25W 5% RESISTOR | 22K | |
| R76 | | | | | |
| R101 | 76-225-01 | 1 | 2.2M OHM .25W 5% RESISTOR | 2.2M | |
| R84 | 76-242-02 | 1 | 2.49K OHM .25W 1% RESISTOR | 2.49K | |
| R2 | 76-272-01 | 7 | 2.7K OHM .25W 5% RESISTOR | 2.7K | |
| R6 | | | | | |
| R35 | | | | | |
| R39 | | | | | |

ASSEMBLY PART #

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REVISION 2

| ITEM | P/N | QTY | DESC | VALUE | LABEL |
|------|-----------|-----|----------------------------|-------|-------|
| R62 | | | | | |
| R86 | | | | | |
| R103 | | | | | |
| R51 | 76-273-01 | 1 | 27K OHM .25W 5% RESISTOR | 27K | |
| R22 | 76-274-01 | 2 | 270K OHM .25W 5% RESISTOR | 270K | |
| R23 | | | | | |
| R58 | 76-332-01 | 4 | 3.3K OHM .25W 5% RESISTOR | 3.3K | |
| R59 | | | | | |
| R93 | | | | | |
| R94 | | | | | |
| R7 | 76-333-02 | 3 | 33.2K OHM .25W 1% RESISTOR | 33.2K | |
| R11 | | | | | |
| R56 | | | | | |
| R29 | 76-352-02 | 4 | 3.57K OHM .25W 1% RESISTOR | 3.57K | |
| R30 | | | | | |
| R49 | | | | | |
| R75 | | | | | |
| R66 | 76-470-01 | 1 | 47 OHM .25W 5% RESISTOR | 47 | |
| R31 | 76-471-01 | 3 | 470 OHM .25W 5% RESISTOR | 470 | |
| R87 | | | | | |
| R92 | | | | | |
| R70 | 76-472-01 | 5 | 4.7K OHM .25W 5% RESISTOR | 4.7K | |
| R77 | | | | | |
| R96 | | | | | |
| R99 | | | | | |
| R100 | | | | | |
| R81 | 76-473-01 | 1 | 47K OHM .25W 5% RESISTOR | 47K | |
| R25 | 76-473-02 | 3 | 47.5K OHM .25W 1% RESISTOR | 47.5K | |
| R26 | | | | | |
| R98 | | | | | |
| R55 | 76-474-01 | 1 | 470K OHM .25W 5% RESISTOR | 470K | |
| R27 | 76-512-02 | 2 | 5.11K OHM .25W 1% RESISTOR | 5.11K | |
| R28 | | | | | |
| R8 | 76-562-02 | 2 | 5.62K OHM .25W 1% RESISTOR | 5.62K | |
| R74 | | | | | |
| R52 | 76-681-01 | 3 | 680 OHM .25W 5% RESISTOR | 680 | |
| R71 | | | | | |
| R95 | | | | | |
| R80 | 76-682-01 | 1 | 6.8K OHM .25W 5% RESISTOR | 6.8K | |
| R1 | 76-682-02 | 1 | 6.81K OHM .25W 1% RESISTOR | 6.81K | |
| R91 | 76-684-01 | 1 | 680K OHM .25W 5% RESISTOR | 680K | |
| R48 | 76-752-01 | 2 | 7.5K OHM .25W 5% RESISTOR | 7.5K | |
| R50 | | | | | |
| R57 | 76-822-01 | 2 | 8.2K OHM .25W 5% RESISTOR | 8.2K | |
| R68 | | | | | |
| R53 | 77-010-03 | 1 | 1 OHM .5W 5% FLAME-PROOF | 1 | |
| R21 | 77-152-03 | 1 | 1.5K .5W 5% FLAME-PROOF | 1.5K | |
| R97 | 77-333-02 | 1 | 33.2K OHM .5W 1% RESISTOR | 33.2K | |
| R41 | 77-470-03 | 2 | 47 OHM .5W 5% FLAME-PROOF | 47 | |
| R43 | | | | | |

ASSEMBLY PART #

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REVISION 2

| ITEM | P/N | QTY | DESC | VALUE | LABEL |
|------|-----------|-----|------------------------------------|----------|-------|
| R24 | 78-105-10 | 1 | .01 OHM 5W 5% | 0.01 | |
| L12 | 94-013-01 | 2 | 15 uH @1kHz 7A max .015ohm | 15 uH | |
| L13 | | | | | |
| L14 | 94-014-01 | 2 | 5 uH @1kHz 7A max .015ohm | 5 uH | |
| L15 | | | | | |
| LF1 | 94-049-01 | 1 | 1mH 5 A EMI FILTER | 1 mH | |
| L1 | 94A001-01 | 6 | FERRITE BEAD TAPE&REEL | FERRITE | |
| L2 | | | | | |
| L7 | | | | | |
| L8 | | | | | |
| L9 | | | | | |
| L11 | | | | | |
| M1 | 96-105-01 | 4 | N-CHANNEL 100V 120W 33A MOSFET | HUF75631 | |
| M2 | | | | | |
| M3 | | | | | |
| M4 | | | | | |
| Q6 | 96R013-01 | 1 | 1PSA13 NPN 30V 1.5W .5A DARLINGTON | MPS-A13 | |
| Q1 | 96R222-01 | 3 | MPS2222A NPN 75VCBO 1.5W .6A | MPS2222 | |
| Q2 | | | | | |
| Q4 | | | | | |
| Q5 | 96R907-01 | 1 | MPS2907A PNP -60V 1.5W | MPS2907A | |