

HOFFMAN ELECTRONICS INC.33165 Cannon Road
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September 25, 2015

FILE REF: HEFG_10BOM.wpd

BILL OF MATERIALS for HEFG 10.CKT

| # | QTY | Part Ref | Description | \$ Ea. | \$ Price |
|----|-----|----------------|--|-----------|----------|
| 1 | 1 | R1 | 1 Meg pot, 9mm, sngl turn, PDB12-M4251-105BF-ND , or equiv. | \$ 0.9200 | \$ 0.92 |
| 2 | 6 | R2 | 20K pot, 6mm, sngl turn, PTV09A-4025F-B203-ND, or equiv. | \$ 0.8300 | \$ 4.98 |
| 3 | 1 | R3 | 100 ohm resistor 5%, 1/4W, YAGEO, 100QBK-ND or equiv. | \$ 0.0242 | \$ 0.02 |
| 4 | 2 | R5, R21 | 10K pot, 6mm, sngl turn, PTV09A-4025F-B103-ND, or equiv. | \$ 0.8300 | \$ 1.66 |
| 5 | 2 | R4, R6 | 330 ohm resistor 5%, 1/4W, YAGEO, 330QBK-ND or equiv. | \$ 0.0242 | \$ 0.05 |
| 6 | 4 | R7,R8, R9, R14 | 10K resistor 5%, 1/4W, YAGEO, 10KQBK-ND or equiv. | \$ 0.0242 | \$ 0.10 |
| 7 | 1 | R10 | 18K resistor 5%, 1/4W, YAGEO, 18KQBK-ND or equiv. | \$ 0.0242 | \$ 0.02 |
| 8 | 1 | R11 | 100K trim pot, 6mm, sngl turn, CT6EP104-ND, or equiv. | \$ 0.0242 | \$ 0.02 |
| 9 | 1 | R12 | 680 ohm resistor 5%, 1/4W, YAGEO, 680QBK-ND or equiv. | \$ 0.0242 | \$ 0.02 |
| 10 | 2 | R13, R20 | 6.8K resistor 5%, 1/4W, YAGEO, 6.8KQBK-ND or equiv. | \$ 0.0242 | \$ 0.05 |
| 11 | 1 | R15 | 5.1K resistor 5%, 1/4W, YAGEO, 5.1KQBK-ND or equiv. | \$ 0.0242 | \$ 0.02 |
| 12 | 1 | R16 | 3.3K resistor 5%, 1/4W, YAGEO, 3.3KQBK-ND or equiv. | \$ 0.0242 | \$ 0.02 |
| 13 | 1 | R17 | 1.5K resistor 5%, 1/4W, YAGEO, 1.5KQBK-ND or equiv. | \$ 0.0242 | \$ 0.02 |
| 14 | 1 | R18 | 2.7K resistor 5%, 1/4W, YAGEO, 2.7KQBK-ND or equiv. | \$ 0.0242 | \$ 0.02 |
| 15 | 1 | R19 | 12K resistor 5%, 1/4W, YAGEO, 12KQBK-ND or equiv. | \$ 0.0242 | \$ 0.02 |
| 16 | 3 | R22, R23, R24 | 1K resistor 5%, 1/4W, YAGEO, 1.0KQBK-ND or equiv. | \$ 0.0242 | \$ 0.07 |
| 17 | 1 | C1 | 10 uF metalized poly, +/- 10%, Panasonic ECQ-E1106JF, Digi-Key P14629-ND or equiv. | \$ 3.0900 | \$ 3.09 |
| 18 | 1 | C2 | 1 uF metalized poly, +/- 10%, Panasonic ECQ-E1105JF, Digi-Key P14633-ND or equiv. | \$ 0.7200 | \$ 0.72 |
| 19 | 2 | C3, C7 | .1uF metalized poly, +/- 10%, Panasonic ECQ-B1H104FL, Digi-Key P4593-ND or equiv. | \$ 0.0687 | \$ 0.14 |
| 20 | 1 | C4 | 10nF metalized poly, +/- 10%, Panasonic ECQ-V1H103JL, Digi-Key P4513-ND or equiv. | \$ 0.0560 | \$ 0.06 |
| 21 | 1 | C5 | 1nF metalized poly, +/- 10%, Panasonic ECQ-B1H102JF, Digi-Key P4551-ND or equiv. | \$ 0.0480 | \$ 0.05 |
| | | | Total | | \$ 12.10 |

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| 1-21 | | | Total | | \$ 12.10 |
| 22 | 1 | C6 | 100pF metalized poly, +/- 10%, Panasonic ECQ-B1H101JF, Digi-Key P4773-ND or equiv. | \$ 0.1119 | \$ 0.11 |
| 23 | 1 | C8 | 330uF alum elec, 16V, Panasonic, ECA-1CM331, Digi-Key P5140-ND or equiv. | \$ 0.0861 | \$ 0.09 |
| 24 | 1 | D1 - D10 | 1N4447 100V, Schottky diode, Fairchild, 1N4447, Mouser P/N 512-1N4447 or equiv. | \$ 0.0946 | \$ 0.09 |
| 25 | 1 | D11 | LED, GRN (green), Lite-On LTL-4232N or equiv. | \$ 0.0469 | \$ 0.05 |
| 26 | 1 | S8,9,10 | 4-pos, dip switch, Digi-Key CT2084-ND or equiv. | \$ 0.6800 | \$ 0.68 |
| 27 | 1 | S1 - 6 | 6-pos, dip switch, Digi-Key CT2086-ND or equiv. | \$ 0.7600 | \$ 0.76 |
| 28 | 2 | S7, S11 | SPDT slide switch, TE Conn/AlcoSwitch, Digi-Key 450-1609-ND or equiv. | \$ 1.1800 | \$ 2.36 |
| 29 | 1 | U1 | MCP6024, RRIO, quad op-amp, Microchip Technologies MCP6024-E/P, DigiKey MCP6024-E/P-ND | \$ 1.9100 | \$ 1.91 |
| 30 | 1 | U2 | 78L05, -5V, 100 mA regulator, DigiKey LM78L05ACZFS-ND, or equiv. | \$ 0.3000 | \$ 0.30 |
| 31 | 1 | J1 | 2.1mm x 5.5mm power jack, CUI PJ-o037A, DigiKey CP-037A-ND | \$ 0.6300 | \$ 0.63 |
| 32 | 4 | Knob | 25/32"D x 15/32"H Knob, Mouser, 5164-1100 or equiv. | \$ 0.8600 | \$ 3.44 |
| 32A | 4 | Knob (shown) | 25/32"D x 5/8"H Knob, Mouser, 5164-1202BA or equiv. | \$ 2.9200 | \$ 0.00 |
| 33 | 1 | BH | 6 - "AA" battery holder with 9V snaps, MCM 28-12571 | \$ 0.8600 | \$ 0.86 |
| 34 | 1 | CN1 | 9V Battery connector with 6" leads, Keystone 233, DigiKey 36-233-ND | \$ 0.6000 | \$ 0.60 |
| 35 | 1 | PLG | 2.1mm x 5.5mm power plug, CUI PP3-002A, DigiKey CP3-1000-ND | \$ 1.0500 | \$ 1.05 |
| | | | Total | | \$ 25.03 |