

Stock and Price Check Report



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|-------------------|--|
| Project Name: | Variable output Inverting Buck Boost with LM7603 |
| Project File: | nik_TREF_LM7603_24v-15v.Pcb |
| Base ID: | PMP15026 |
| Schematic Rev: | E1 |
| Assembly Variant: | None |
| Build Quantity: | 100 |
| Generated: | 18-02-2018 12:15:09 |

| | |
|------------------------------|----------------|
| Summary | |
| Parts missing supplier info: | 0 |
| Stock Issues: | 13 |
| Total Component Cost: | \$1,771,714.00 |
| Cost per Assembly: | \$17,717.14 |

| Item | Designator | Quantity | Required | Manufacturer | Part Number | Description | Subst | Supplier 1 | Supplier Part Number | Supplier Order Qty 1 | \$0.175,418.00 | | Supplier Stock | Supplier 2 | Supplier Part Number | Supplier Order Qty 2 | \$1,733,869.00 | | Supplier Stock | | | | | |
|------|-------------------------------|----------|----------|-------------------------|---------------------|---|------------|------------|-----------------------|----------------------|---------------------|-------------------|----------------|------------|-----------------------|----------------------|---------------------|-------------------|----------------|---------|----------------------|-------------|-----------|-------|
| | | | | | | | | | | | Supplier Unit Price | Supplier Subtotal | | | | | Supplier Unit Price | Supplier Subtotal | | | | | | |
| 1 | PCB | 1 | 100 | Any | PMP15026 | Printed Circuit Board | \$0.01 | | | | | | | | | | | | | | | | | |
| 2 | Diodes | 1 | 100 | Fairchild | EMK107B1086K-T | CAP. CERAM. 1 µF, 18 V, +/- 10%, X7R, 0603 | 0.0000 | Farnell | 183267 | 100 | 0.055 | 5.5 | 74483 | Mouser | 80-C0603C474K4R | | | | 1414644 | | | | | |
| 3 | C0603T1 | 1 | 100 | Kemet | C0603C474R6ACTU | CAP. CERAM. 0.47 µF, 18 V, +/- 10%, X7R, 0603 | 0.0550 | Digi-Key | 399-4522-1-ND | 100 | 0.055 | 5.5 | 314311 | Mouser | 981-0603A101F | 100 | 0.07755 | \$775.4555 | 12235 | | | | | |
| 4 | C0603 | 1 | 100 | AVX | 0603A101FA72A | CAP. CERAM. 100 pF, 50 V, +/- 1%, COGNPO, 0603 | 0.0000 | Digi-Key | 478-6202-1-ND | 100 | 0.005 | 0.5 | | Mouser | 947-UCC1K101MNO1M5 | 100 | 0.27303 | \$2,730.278 | 12887 | | | | | |
| 5 | C0603 | 1 | 100 | Notion | UCC1K101MNO1M5 | CAP. AL. 100 µF, 80 V, +/- 20%, 22 ohm, AEC-Q200 Grade 1, SMD | 0.2730 | | | | | | | | | | | | | | | | | |
| 6 | C0603 | 2 | 200 | Vishay/Vitramon | VJ1206V17H0EAT5Z | CAP. CERAM. 470 pF, 500 V, +/- 10%, X7R, 1206 | 0.0000 | Digi-Key | 733-1029-1-ND | 200 | 0.00 | 60.0000 | 0 | Mouser | 77-UH730V1674KX4T47 | | | | | | | | | |
| 7 | C0603 | 2 | 200 | MuRata | GRM32ER71K475AE14L | CAP. CERAM. 4.7 µF, 80 V, +/- 10%, X7R, 1210 | 0.0000 | Digi-Key | 499-8972-1-ND | 200 | 0.0361 | 107.89 | 66 | Mouser | 81-GRM32ER71K475AE14L | | | | | | | | | |
| 8 | C0603 | 6 | 600 | Keystone | 5011 | Test Point, Multipurpose, Black, TH | 0.0000 | Digi-Key | 86-5011-ND | 600 | 0.19832 | \$118.95220000 | 513151 | Mouser | 534-5011 | | | | | | | | | |
| 9 | C0603 | 1 | 100 | Panasonic | EEE-FC1E470P | CAP. AL. 47 µF, 25 V, +/- 20%, 0.4 ohm, SMD | 0.0000 | Digi-Key | PCE4008CT-ND | 100 | 0.2739 | 27.39 | 7267 | Mouser | 667-EEE-FC1E470P | | | | | | | | | |
| 10 | C0603 | 3 | 300 | Fairchild | TMK325872290MHT | CAP. CERAM. 22 µF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210 | 0.0000 | Digi-Key | 587-4337-1-ND | 300 | 0.6228 | 186.84 | 0 | Mouser | 963-TMK325872290MHT | | | | 9693521 | 100 | 0.24207 | \$2,420.659 | 1411 | |
| 11 | C0603 | 2 | 200 | MuRata | GRM188R7E471KW07D | CAP. CERAM. 470 pF, 250 V, +/- 10%, X7R, 0603 | 0.0000 | Digi-Key | 490-3523-1-ND | 200 | 0.2333 | 46.66 | 13195 | Mouser | 81-GRM188R7E471KD | | | | | | | | | |
| 12 | C0603 | 1 | 100 | AVX | 0603ZC101KAT2A | CAP. CERAM. 100 pF, 10 V, +/- 10%, X7R, 0603 | 0.0000 | Digi-Key | 0603ZC101KAT2A-ND | 4000 | 0.0418 | 167.2 | 0 | Mouser | 581-0603ZC101KAT2A | | | | Newark | 5522751 | 4000 | 0.035 | \$140.00 | 0 |
| 13 | C0603 | 1 | 100 | AVX | 06030A100JA72A | CAP. CERAM. 10 pF, 50 V, +/- 5%, COGNPO, 0603 | 0.0000 | Digi-Key | 478-1163-1-ND | 100 | 0.0217 | 2.17 | 128119 | Mouser | 581-0603A100J | | | | Farnell | 499110 | 100 | 0.02871 | \$287.101 | 39165 |
| 14 | C0603 | 5 | 500 | Keystone | 5013 | Test Point, Multipurpose, Orange, TH | 0.0000 | Digi-Key | 36-5013-ND | 500 | 0.19832 | 99.16 | 61416 | Mouser | 534-5013 | | | | | | | | | |
| 15 | C0603 | 1 | 100 | Kemet | C0603C2258PACTU | CAP. CERAM. 2.2 µF, 10 V, +/- 10%, X5R, 0603 | 0.0000 | Digi-Key | 399-4911-1-ND | 100 | 0.0721 | 7.21 | 16782 | Mouser | 80-C0603C2258P | | | | Farnell | 1198322 | 100 | 0.06488 | \$648.793 | 14651 |
| 16 | Eraser, Sinc | 2 | 200 | M&M Max | 800-10-003-10-01000 | Header, 100ml, 3x1, TH | 0.0000 | Digi-Key | ED7203-ND | | | | | | | | | | | | | | | |
| 17 | H1, H2, H3, H4 | 4 | 400 | BAF Fastener Supply | NY PMS 440 0025 PH | Machine Screw, Round, #4-40 x 1/4, Nylon, Phillips panhead | 0.0000 | Digi-Key | H542-ND | 400 | 0.0886 | 35.44 | 116900 | | | | | | | | | | | |
| 18 | H5, H6, H7, H8 | 4 | 400 | Keystone | 1902C | Standoff, Hex, 0.5"L, #4-40 Nylon | 0.0000 | Digi-Key | 1902CK-ND | | | | | | | | | | | | | | | |
| 19 | J-Vin, VinOut, VinGnd, VouGnd | 4 | 400 | Keystone | 575-8 | Standard Banana Jack, Uninsulated, 8.9mm | 0.0000 | Digi-Key | 36-575-8-ND | 400 | 0.5122 | 204.88 | 42249 | | | | | | | | | | | |
| 20 | L1 | 1 | 100 | Vishay-Dale | HLP2526CZERBR2M1 | Inductor, Shielded, Powdered Iron, 8.2 µH, 4 A, 0.0549 ohm, SMD | \$1,472.00 | Digi-Key | HLP2526CZERBR2M1-1-ND | 2000 | 0.736 | \$1,472.0000 | 0 | | | | | | | | | | | |
| 21 | LBL1 | 1 | 100 | Brady | THT-14-423-10 | Thermal Transfer Printable Label, 0.650" W x 0.200" H - 10,000 per roll | 0.0000 | Farnell | 2055986 | 10000 | 0.00905 | \$9,054.9540000 | 6 | Newark | 37C5133 | 10000 | 0.0073 | 72.99 | 11 | | | | | |
| 22 | OpAmp | 2 | 200 | Fairchild Semiconductor | MMBT3906 | Transistor, PNP, 40 V, 0.2 A, SOT-23 | 0.0000 | Digi-Key | MMBT3906FSC-ND | 200 | 0.1052 | 21.04 | 0 | Farnell | 9846832 | 200 | 0.08669 | \$1,733.868 | -2 | | | | | |
| 23 | OpAmp | 1 | 100 | Diodes Inc. | ZXMPA13FTA | MOSEFET, P-Ch, 40 V, 0.9 A, SOT-23 | 0.0000 | Digi-Key | ZXMPA13FTA-ND | 100 | 0.6079 | 60.79 | 41785 | Newark | 1272278 | 100 | 0.265 | 26.5 | 8826 | Mouser | 522_ZXMPA13FTA | | | |
| 24 | Resistor | 1 | 100 | Vishay-Dale | WJLJ-D10CT-ND | RES. 0.01, 1%, 0.1 W, 0603 | 0.0000 | Digi-Key | WJLJ-D10CT-ND | 100 | 0.506 | 50.6 | 6000 | Newark | 1897604 | 100 | 0.006 | 0.6 | 4998 | Mouser | 71-CRCW0603-10R0F5A | | | |
| 25 | Resistor | 1 | 100 | Vishay-Dale | CRCW060310R0FKEA | RES. 10.0, 1%, 0.1 W, 0603 | 0.0000 | Digi-Key | 541-10.0KCT-ND | 100 | 0.017 | 1.7 | 1990 | Newark | 6294073 | 100 | 0.026 | 2.6 | 1450 | Mouser | 71-CRCW0603-10-E3 | | | |
| 26 | Resistor | 3 | 300 | Vishay-Dale | CRCW060340R0FKEA | RES. 4.99 k, 1%, 0.1 W, 0603 | 0.0000 | Digi-Key | 541-4.99KCT-ND | 300 | 0.017 | 5.1 | 7229 | Newark | 6294050 | 300 | 0.014 | 4.2 | 2327 | Mouser | 71-CRCW0603-4.99K-E3 | | | |
| 27 | Resistor | 1 | 100 | Vishay-Dale | CRCW060344K0FKEA | RES. 44.2 k, 1%, 0.1 W, 0603 | 0.0000 | Digi-Key | 541-44.2KCT-ND | 100 | 0.017 | 1.7 | 12359 | Newark | 6294033 | 100 | 0.003 | 0.3 | 3763 | Mouser | 71-CRCW0603-44.2K-E3 | | | |
| 28 | Resistor | 2 | 200 | Vishay-Dale | CRCW060369K0FKEA | RES. 6.98 k, 1%, 0.1 W, 0603 | 0.0000 | Digi-Key | 541-6.98KCT-ND | 200 | 0.017 | 3.4 | 0 | Newark | 6294980 | 200 | 0.017 | 3.4 | 0 | Mouser | 71-CRCW0603-6.98K-E3 | | | |
| 29 | Resistor | 1 | 100 | Vishay-Dale | CRCW06037K10FKEA | RES. 7.15 k, 1%, 0.1 W, 0603 | 0.0000 | Digi-Key | 541-7.15KCT-ND | 100 | 0.017 | 1.7 | 59559 | Newark | 6294893 | 100 | 0.006 | 0.6 | 2178 | Mouser | 71-CRCW0603-7.15K-E3 | | | |
| 30 | Resistor | 1 | 100 | Vishay-Dale | CRCW060310K0FKEA | RES. 10.0 k, 1%, 0.1 W, 0603 | 0.0000 | Digi-Key | 541-10.0KCT-ND | 100 | 0.017 | 1.7 | 0 | Newark | 6294668 | 100 | 0.026 | 2.6 | 0 | Mouser | 71-CRCW0603-10K0F5A | | | |
| 31 | Resistor | 2 | 200 | Vishay-Dale | CRCW060310K0FKEA | RES. 10.0 k, 1%, 0.1 W, 0603 | 0.0000 | Digi-Key | 541-10.0KCT-ND | 200 | 0.017 | 3.4 | 0 | Newark | 6294062 | 200 | 0.026 | 5.2 | 4662 | Mouser | 71-CRCW0603-10K-E3 | | | |
| 32 | Resistor | 1 | 100 | Vishay-Dale | CRCW060382K0FKEA | RES. 82.5 k, 1%, 0.1 W, 0603 | 0.0000 | Digi-Key | 541-82.5KCT-ND | 100 | 0.017 | 1.7 | 0 | Newark | 6294737 | 100 | 0.017 | 1.7 | 3856 | Mouser | 71-CRCW0603-82.5K-E3 | | | |
| 33 | Resistor | 1 | 100 | Keystone | 5014 | Test Point, Multipurpose, Yellow, TH | 0.0000 | Digi-Key | 86-5014-ND | 100 | 0.2209 | 22.09 | 170767 | | | | | | | | | | | |
| 34 | Resistor | 1 | 100 | Texas Instruments | LM7603RNPDR | Test Point, Multipurpose, Yellow, TH | 0.0000 | Digi-Key | | | | | | | | | | | | | | | | |
| 35 | Vin | 1 | 100 | Keystone | 5010 | Test Point, Multipurpose, Red, TH | 0.0000 | Digi-Key | 36-5010-ND | 100 | 0.2209 | 22.09 | 304161 | Mouser | 534-5010 | | | | | | | | | |

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