



## Bill of Materials for the NCV891334MW33GEVB Evaluation Board

| Designator   | Quantity | Description                                    | Value            | Tolerance | Footprint      | Manufacturer                     | Manufacturer Part Number | Substitution Allowed | Lead Free |
|--|----------|--|------------------|-----------|----------------|----------------------------------|--------------------------|----------------------|-----------|
| CVIN0  | 1        | CAP CER 0.1UF 250V 10% X7R 1210                | 0.1uF            | 10%       | 1210           | TDK Corporation                  | CGA6M3X7R2E104K200AA     | Yes                  | Yes       |
| CVIN1, CVIN2                                       | 2        | CAP CER 4.7UF 50V 10% X7R 1210                 | 4.7uF            | 10%       | 1210           | Murata Electronics North America | GCM32ER71H475KA55L       | Yes                  | Yes       |
| CVIN3  | 1        | CAP CER 1.0UF 50V X7R 0805                     | 1.0uF            | 10%       | 805            | Murata Electronics North America | GCM21BR71H105KA03L       | Yes                  | Yes       |
| CB1  | 1        | CAP ALUM 100UF 63V 20% RADIAL                  | 100uF            | 20%       | CAP_RAD_8X11P5 | Chemi-Con                        | ELXZ630ELL101MH15D       | Yes                  | Yes       |
| CBST, CDRV, COUTS                                  | 3        | CAP .10UF 16V CERAMIC X7R 0603                 | 0.1uF            | 10%       | 603            | Murata Electronics North America | GCM188R71C104KA37D       | Yes                  | Yes       |
| COUT1, COUT2, COUT3                                | 3        | CAP CER 10UF 10V X7R 1206                      | 10uF             | 10%       | 1206           | Murata Electronics North America | GCM31CR71A106KA64L       | Yes                  | Yes       |
| CSNB   | 1        |  | Do Not Populate  |           | 603            |                                  |                          | Yes                  | Yes       |
| R1, R3, R4   | 3        | RES 10.0K OHM 1/10W 1% 0603 SMD                | 10.0K            | 1%        | 603            | Vishay/Dale                      | CRCW060310K0FKEA         | Yes                  | Yes       |
| R2   | 1        | RES 0.0 OHM 1/10W 0603 SMD                     | 0                | N/A       | 603            | Vishay/Dale                      | CRCW06030000Z0EA         | Yes                  | Yes       |
| RSNB   | 1        |  | Do Not Populate  |           | 603            |                                  |                          | Yes                  | Yes       |
| DFW  | 1        | DIODE SCHOTTKY 3.0A 40V SMB                    | 40V / 3.0A       | N/A       | MBR340MFS      | ON Semiconductor                 | NRVB440MFST1G            | No                   | Yes       |
| DBST   | 1        | DIODE SWITCH 200MA 100V SOD323                 | 100V / 0.2A      | N/A       | SOD_323        | ON Semiconductor                 | BAS16HT1G                | No                   | Yes       |
| L0   | 1        | High Current Shielded Inductor 1.0uH, 8.7A SAT | 1.0uH            | 20%       | XAL4020-102ME  | Coilcraft                        | XAL4020-102ME            | Yes                  | Yes       |
| L1   | 1        | INDUCTOR POWER 2.2UH 5.6A SMD                  | 2.2uH            | 4.5A      | XAL4020-222    | Coilcraft, Inc.                  | XAL4020_222ME            | No                   | Yes       |
| GND1, GND2, GND3, GND4                             | 4        | TERM SOLDER TURRET .219" .109"L                | N/A              | N/A       | TURRET         | Mill-Max Manufacturing Corp.     | 2501-2-00-44-00-00-07-0  | Yes                  | Yes       |
| EN, FAULTB, RSTB, SYNCI, SYNCO, VBAT, VOUT1, VOUT2 | 8        | PIN INBOARD .042" HOLE 1000/PKG                | N/A              | N/A       | TP             | Vector Electronics               | K24C/M                   | Yes                  | Yes       |
| BST, DRV, RID1, RID2, SW                           | 5        |  | Do Not Populate  |           | TPA            |                                  |                          | Yes                  | Yes       |
| U1   | 1        | 3.3V, 3A 2MHz Auto. Buck Switching Regulator   | NCV891334MW33R2G | N/A       | 12PINDFN4X4P65 | ON Semiconductor                 | NCV891334MW33R2G         | No                   | Yes       |