



Bill of Materials for the NCV891234MW33GEVB 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, 2A 2MHz Auto. Buck Switching Regulator | NCV891234MW33R2G | N/A | 12PINDFN4X4P65 | ON Semiconductor | NCV891234MW33R2G | No | Yes |