



## Bill of Materials for the NCP5252GEVB Evaluation Board

| Designator | Quantity | Description                    | Value            | Tolerance      | Footprint       | Manufacturer     | Manufacturer Part Number  | Substitution Allowed | Lead Free  |
|------------|----------|--------------------------------|------------------|----------------|-----------------|------------------|---------------------------|----------------------|------------|
| C2         | 1        | SMT Capacitor                  | 10uF 16V         | - 20 % to 80 % | 805             | TDK              | C2012Y5V1C106Z            | YES                  | YES        |
| C9         | 1        | Ceramic Chip Capacitor         | 0.1uF 16V        | ±10%           | 603             | AVX              | GCM188R71C104KA37D        | YES                  | YES        |
| C6         | 1        | Ceramic Chip Capacitor         | 1.0uF 10V        | 0.1            | 603             | Kemet            | C0603C105K8PACTU          | YES                  | YES        |
| C7         | 1        | Ceramic Chip Capacitor         | 10uF 6.3V        | ±20%           | 603             | Murata           | GMR188R60J106ME47D        | YES                  | YES        |
| C3 C5 C10  | 3        | Ceramic Chip Capacitor         | 1nF 50V          | 0.1            | 603             | Murata           | GCM188R71H102KA37D        | YES                  | YES        |
| C8         | 1        | Ceramic Chip Capacitor         | 1uF 10V          | ±10%           | 603             | Kemet            | C0603C105K4PACTU          | YES                  | YES        |
| NC2        | 1        | <b>Ceramic Chip Capacitor</b>  | <b>2.2nF 50V</b> | <b>0.1</b>     | <b>603</b>      | <b>Murata</b>    | <b>GCM188R71H222KA37D</b> | <b>YES</b>           | <b>YES</b> |
| C12        | 1        | <b>Ceramic Chip Capacitor</b>  | <b>330pF 50V</b> | <b>0.05</b>    | <b>603</b>      | <b>Murata</b>    | <b>GRM1885C1H331JA01D</b> | <b>YES</b>           | <b>YES</b> |
| NC1        | 1        | Ceramic Chip Capacitor         | 56pF 50V         | 0.05           | 603             | Murata           | GRM1885C1H560JA01D        | YES                  | YES        |
| C4         | 1        | SMT Ceramic Capacitor          | 0.047uF 16V      | ±10%           | 805             | AVX              | 08055C473K4T2A            | YES                  | YES        |
| C11        | 1        | Surface Mount E-Cap            | 100uF            | ±20%           | (6.3 x 5.2)mm   | United Chemi-Con | EMVA160ADA101MF55G        | YES                  | YES        |
| C1         | 1        | Surface Mount E-Cap            | 100uF 16V        | ±20%           | 6.3mm x 5.2mm   | United Chemi-Con | EMVA160ADA101MF55G        | YES                  | YES        |
| D1         | 1        | Zener Diode .5w                | 5.1v             | 0.05           | SOD-123         | ON Semiconductor | MMSZ5231BT1G              | NO                   | YES        |
| L1         | 1        | INDUCTOR, SM                   | 4.7uH 32m        | 0.2            | (7.3x7.3x4.5)mm | Wurth            | 7447789004                | YES                  | YES        |
| U1         | 1        | Integrated Sync Buck Converter | 2A               | +/-1%          | QFN16           | ON Semiconductor | NCP5252MNTXG              | NO                   | YES        |
| R12        | 1        | Resistor                       | 100R             | ±1.0%          | 603             | Vishay / Dale    | CRCW0603100FNEA           | YES                  | YES        |
| R3 R13     | 2        | Resistor                       | 100k             | ±1.0%          | 603             | Vishay / Dale    | CRCW0603100KFKEA          | YES                  | YES        |
| R1-2       | 2        | Resistor                       | 10k              | ±1.0%          | 603             | Vishay / Dale    | CRCW060310K0FKEA          | YES                  | YES        |
| R9         | 1        | Resistor                       | 178              | ±1.0%          | 603             | Vishay / Dale    | CRCW0603178RFKEA          | YES                  | YES        |
| R4         | 1        | Resistor                       | 20R              | ±1.0%          | 603             | Vishay / Dale    | CRCW060320R0FKEA          | YES                  | YES        |
| R7         | 1        | Resistor                       | 3.83k            | ±1.0%          | 603             | Vishay / Dale    | CRCW06033K83FKEA          | YES                  | YES        |
| NR1        | 1        | Resistor                       | 3k24             | ±1.0%          | 603             | Vishay / Dale    | CRCW06033K24FKEA          | YES                  | YES        |
| R6 R8      | 2        | Resistor                       | 5k1              | ±1.0%          | 603             | Vishay / Dale    | CRCW06035K10FKEA          | YES                  | YES        |
| R5         | 1        | Resistor                       | 100R             | ±1.0%          | 1206            | Vishay / Dale    | CRCW1206100RFKEA          | YES                  | YES        |