



Bill of Materials for the A5191HRTNGEV B Evaluation Board

| Designator | Quantity | Description | Value | Tolerance | Footprint | Manufacturer | Manufacturer Part Number | Substitution Allowed | Lead Free |
|-----------------|----------|-------------------|------------|-----------|-----------|------------------|--------------------------|----------------------|-----------|
| C1, C2, C4, C6 | 4 | Ceramic Capacitor | 100 nF | 20% | 603 | TDK | C1608X7R1C104M | YES | YES |
| C3, C5 | 2 | Ceramic Capacitor | DNP | 10% | 603 | TDK | C1608X7R1H221K | YES | YES |
| C7 | 1 | Ceramic Capacitor | 220 pF | 10% | 603 | TDK | C1608X7R1H221K | YES | YES |
| C8, C9 | 2 | Ceramic Capacitor | 1 nF | 5% | 603 | TDK | C1608X7R1H102J | YES | YES |
| C10 | 1 | Ceramic Capacitor | 470 pF | 5% | 603 | TDK | C1608C0G1H471J | YES | YES |
| C11 | 1 | Ceramic Capacitor | 470 nF | 10% | 603 | TDK | C1608X5R1C474K080AA | YES | YES |
| FB1, FB2, FB3 | 4 | Ferrite Bead | 600 Z, 2 A | - | 805 | TDK | MPZ2012S601A | YES | YES |
| IDC1, IDC2 | 2 | IDC10 | - | - | IDC10 | WUERTH | 61201021621 | YES | YES |
| IDC3 | 1 | IDC10 | DNP | - | IDC10 | WUERTH | 61201021621 | YES | YES |
| J1 | 1 | AUX Power | DNP | - | DC-2.1MM | CLIFF | DC10A | YES | YES |
| J2 | 1 | Ext. Clock | - | - | SMB | MOLEX | 73100-0103 | YES | YES |
| R1, R2, R6, R21 | 4 | Resistor | 200 kΩ | 1% | 603 | VISHAY | CRCW0603200KFKEA | YES | YES |
| R3 | 1 | Resistor | DNP | 1% | 603 | VISHAY | CRCW0603000Z0EA | YES | YES |
| R4, R11 | 2 | Resistor | 14.7 kΩ | 1% | 603 | VISHAY | CRCW060314K7FKEA | YES | YES |
| R7, R14 | 2 | Resistor | 499 kΩ | 1% | 603 | VISHAY | CRCW0603499KFKEA | YES | YES |
| R8, R16, R17 | 3 | Resistor | 215 kΩ | 1% | 603 | VISHAY | CRCW0603215RFKEA | YES | YES |
| R12 | 1 | Resistor | 1 kΩ | 1% | 603 | VISHAY | CRCW06031K00FKEA | YES | YES |
| R10 | 1 | Resistor | 422 kΩ | 1% | 603 | VISHAY | CRCW0603422KFKEA | YES | YES |
| R13 | 1 | Resistor | 3 MΩ | 1% | 603 | VISHAY | CRCW06033M00FKEA | YES | YES |
| R15 | 1 | Resistor | 787 kΩ | 1% | 603 | VISHAY | CRCW0603787KFKEA | YES | YES |
| R18 | 1 | Resistor/DNP | 24 kΩ | 1% | 603 | VISHAY | CRCW060324K0FKEA | YES | YES |
| R20 | 1 | Resistor/DNP | DNP | 0.01 | 603 | VISHAY | CRCW0603000Z0EA | YES | YES |
| U1 | 1 | NCP301LSN27T1G | - | - | SOT23_5P | ON Semiconductor | NCP301LSN27T1G | YES | YES |
| U2 | 1 | A5191HRT | - | - | QFN32_5X5 | ON Semiconductor | A5191HRT | NO | YES |
| U3 | 1 | TLV431ASNT1G | - | - | SOT23_5P | ON Semiconductor | TLV431ASNT1G | YES | YES |
| Y1 | 1 | 460.8kHz | DNP | - | CSBFB | Murata | CSBFBJ460 | YES | YES |