



Bill of Materials for the CCR120PS3AGEVB Evaluation Board

| Designator | Quantity | Description | Value | Tolerance | Footprint | Manufacturer | Manufacturer Part Number | Substitution Allowed | Lead Free |
|--|----------|---|-------------------|-----------|-----------|-----------------------------|--------------------------|----------------------|-----------|
| D1-D4 | 4 | Power Rectifier, Standard Recovery, 1 A, 400 V | 1 A, 400 V | - | SMA | ON Semiconductor | MRA4004T3G | No | Yes |
| CCR1 | 1 | 120 VAC, 50mA - LED Driver, Constant Current Regulator | NSIC2050BT3G | 15% | SMB | ON Semiconductor | NSIC2050BT3G | No | Yes |
| CCR2 | 1 | 120 VAC, 30mA - LED Driver, Constant Current Regulator | NSIC2030BT3G | 15% | SMB | ON Semiconductor | NSIC2030BT3G | No | Yes |
| D5 | 1 | 75 V Switching Diode | - | - | SOD-323 | ON Semiconductor | BAS16HT1G | No | Yes |
| T1 | 1 | 40V, 200mA NPN Bipolar Transistor | - | - | SOT-23 | ON Semiconductor | MMBT3904LT1G | No | Yes |
| T2 | 1 | 60V, 600mA PNP Bipolar Transistor | - | - | SOT-23 | ON Semiconductor | MMBT2907ALT1G | No | Yes |
| T3 | 1 | 350V, 100mA High Voltage NPN Bipolar Transistor | - | - | SOT-23 | ON Semiconductor | MMBT6517LT1G | No | Yes |
| T4 | 1 | 140V, 600mA High Voltage NPN Bipolar Transistor | - | - | SOT-23 | ON Semiconductor | MMBT5550LT1G | No | Yes |
| T5 | 1 | 150V, 500mA High Voltage PNP Bipolar Transistor | - | - | SOT-23 | ON Semiconductor | MMBT5401LT1G | No | Yes |
| MOV1 | 1 | VARISTOR, SMD, 240V | 240V Varistor | - | SMD | PANASONIC | ERZVF2M241 | Yes | Yes |
| F1 | 1 | FUSE, ANTISURGE, SMD, 1A | 1A antisurge fuse | - | SMD | LITTELFUSE | 0452001.NRL | Yes | Yes |
| S1-S4 | 4 | 0 Ohm, THICK FILM CHIP RESISTOR | 0 | - | 2010 | VISHAY DRALORIC | CRCW2010000Z0EF | Yes | Yes |
| R1 | 1 | RESISTOR, 1M, 0.25W, 1%, 1206, SMD | 1M | 1% | 1206 | VISHAY DRALORIC | CRCW12061M00FKEA | Yes | Yes |
| R2 | 1 | RESISTOR, THICK FILM, 5K6, 1%, 250mW, 1206 | 5.6k | 1% | 1206 | VISHAY DRALORIC | CRCW12065K60FKEA | Yes | Yes |
| R3 | 1 | RESISTOR, 1206, 301K, 1% | 301k | 1% | 1206 | VISHAY DRALORIC | CRCW1206301KFKEA | Yes | Yes |
| R4 | 1 | RESISTOR, 1206, 590R, 1% | 590 | 1% | 1206 | VISHAY DRALORIC | CRCW1206590RFKEA | Yes | Yes |
| R5 | 1 | RESISTOR, 100K, 0.25W, 1%, 1206, SMD | 100k | 1% | 1206 | VISHAY DRALORIC | CRCW1206100KFKEA | Yes | Yes |
| R6, R9 | 2 | RESISTOR, 1206, 2K20, 1% | 2.2k | 1% | 1206 | VISHAY DRALORIC | CRCW12062K20FKEA | Yes | Yes |
| R7, R8 | 2 | RESISTOR, 1206, 27K, 1% | 27k | 1% | 1206 | VISHAY DRALORIC | CRCW120627K0FKEA | Yes | Yes |
| C1 | 1 | CAPACITOR, 1206, X7R, 630V, 2.2NF | 2.2n | 10% | 1206 | MURATA | GRM31BR7J222KW01L | Yes | Yes |
| C2, C3 | 2 | CAPACITOR, 0805, 1NF, 50V | 1n | 5% | 0805 | YAGEO (PHYCOMP) | CC0805JRNPO9B102 | Yes | Yes |
| LEDCON1 | 1 | BG300-04-A-L-A - RECEPTACLE, 2.54MM, SMT, R/A, 4WAY, FEMALE | - | - | - | GLOBAL CONNECTOR TECHNOLOGY | BG300-04-A-L-A | No | Yes |
| ACCON1 | 1 | CONNECTOR, LED, 2 POST SMD | - | - | - | GLOBAL CONNECTOR TECHNOLOGY | 1954097-1 | No | Yes |
| AC1, AC2, A_CCR1, A_CCR2, T1_C, T3_C, A_S1, A_S2, C_S1, C_S2 | 10 | TEST POINT, SMT, 3.25MM | - | - | - | HARWIN | S1751-46 | No | Yes |