



Bill of Materials for the NCV30161GEVB Evaluation Board

| Designator | Quantity | Description | Value | Tolerance | Footprint | Manufacturer | Manufacturer Part Number | Substitution Allowed | Lead Free |
|--|----------|-------------|---------|-----------|--------------|----------------------|--------------------------|----------------------|-----------|
| C1,C17 | 2 | Capacitor | 1nF | ±2% | 0603 | Murata Electronics | GRM0335C1E102GA01D | YES | YES |
| C2 | 1 | Capacitor | 4.7uF | ±20% | 0603 | Murata Electronics | GRT188R61E475ME13D | YES | YES |
| C3,C4,C5,C6,C7,C8,C9,C10,C11,C12,C13,C14,C15,C16 | 14 | Capacitor | 22uF | ±10% | 1206 | Murata Electronics | GRT31CR61E226KE01L | YES | YES |
| C18 | 1 | Capacitor | 2.2uF | ±10% | 0603 | Murata Electronics | GRM188C81E225KE11D | YES | YES |
| C19,C20 | 2 | Capacitor | 1.0uF | ±10% | 0603 | Murata Electronics | GCM188R71E105KA64D | YES | YES |
| C21 | 1 | Capacitor | 0.1uF | ±10% | 0603 | KEMET | C0603C104K3RECTU | YES | YES |
| D1,D2 | 2 | Diode | - | - | SMT | OSRAM | SFH4725AS | YES | YES |
| D3 | 1 | Diode | - | - | SMT | ON SEMICONDUCTOR | NRVTSAF360T3G | YES | YES |
| JP1 | 1 | Jumper | - | - | SMT | Molex | 39889-0042 | YES | YES |
| L1 | 1 | Inductor | 3.3uH | ±20% | SMT | Würth Electronics | 74437346033 | YES | YES |
| L2 | 1 | Inductor | 10nH | ±5% | SMT | Würth Electronics | 744762110A | YES | YES |
| Q3 | 1 | | - | - | WDFN8 | ON SEMICONDUCTOR | NVTFS5C673NL | YES | YES |
| TP1,TP2,TP3,TP4,TP5,TP6 | 6 | Test Point | - | - | Through Hole | KEYSTONE ELECTRONICS | 5009 | YES | YES |
| U1 | 1 | | - | - | DFN10 | ON SEMICONDUCTOR | NCV30161 | NO | YES |
| U2 | 1 | | - | - | TSSOP-14 | ON SEMICONDUCTOR | NCV47821PAAJR2G | NO | YES |
| R2,R4,R5,R9 | 4 | Resistor | 10K | ±0.1% | 0603 | YAGEO | RT0603BRC0710KL | YES | YES |
| R1 | 1 | Resistor | 200mOhm | ±1% | 1206 | VISHAY | RCWE1206R200FKEA | YES | YES |
| R6 | 1 | Resistor | 845 | ±1% | 0603 | PANASONIC | ERJ-3EKF8450V | YES | YES |
| R7 | 1 | Resistor | 825 | ±1% | 0603 | PANASONIC | ERJ-3EKF8250V | YES | YES |
| R8 | 1 | Resistor | 130K | ±1% | 0603 | VISHAY | CRCW0603130KFKEAC | YES | YES |
| R3 | 1 | Resistor | 100 | ±1% | 0603 | VISHAY | CRCW0603100RFKEAC | YES | YES |
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