



Bill of Materials for the NV706271R2DBGVB Evaluation Board

| Designator | Quantity | Description | Value | Tolerance | Footprint | Manufacturer | Manufacturer Part Number | Substitution Allowed | Lead Free |
|---|----------|---|-------------|-----------|------------------|------------------|--------------------------|----------------------|-----------|
| DUT | 1 | Motor driver chip ON semiconductor | NCV70627 | - | POWER_SSOP_ON | ON Semiconductor | NCV70627DQ001G | No | Yes |
| J1 - J3, J4, J6, J8, J12, J12G, J13, J14, J16, J17, J29 | 13/32 | SIL HEADER 1 pins LEAD plated, matches 102-3035 SOCKET (made of breakaway SIL32 header) GOLD plated; D01-9923246; (repl. for 176-371, 366-5707) | - | - | X1APH | HARWIN | 102-2218 + 102-3035 | Yes | Yes |
| R1,R2 | 2 | Resistor | 1k | 5% | 0603 | PHYComp | 232270262102 | Yes | Yes |
| R3 | 1 | Varistor | 26VDC | 10% | 0603 | EPCOS | B72500T200K60 | Yes | Yes |
| C1,C2 | 2 | Capacitor X7R | 2,7nF, 50 V | 10% | 0603 | PHYComp | 223858615628 | Yes | Yes |
| C3 | 1 | Capacitor X5R | 1uF, 10 V | 10% | 0603 | PHYComp | 233824613663 | Yes | Yes |
| C4,C6,C7 | 3 | Capacitor X7R | 100nF | 10% | 0603 | EPCOS | B37931K9104K60 | Yes | Yes |
| C8 | 1 | Capacitor | 100uF, 50 V | 10% | NICHICON_UD_8X10 | NICHICON | UDD1H101MNL | Yes | Yes |
| PwrGd | 1 | Printed circuit board | - | - | - | - | 70627_EVBPB_SSOP36_V2 | Yes | Yes |