



## Bill of Materials for the AM305421R1DBGVB Evaluation Board

| Designator | Quantity | Description                               | Value           | Tolerance | Footprint         | Manufacturer            | Manufacturer Part Number | Substitution Allowed | Lead Free  |
|------------|----------|---|-----------------|-----------|-------------------|-------------------------|--------------------------|----------------------|------------|
| <b>U1</b>  | <b>1</b> | <b>Stepper Motor Driver</b>               | -               | -         | <b>NQFP-32</b>    | <b>ON Semiconductor</b> | <b>AMIS30542C5421G</b>   | <b>No</b>            | <b>Yes</b> |
| C1         | 1        | Low ESR, Aluminium Electrolytic Capacitor | 100uF, 50V      | ±20%      | 10.00mm x 10.20mm | Panasonic - ECG         | EEE-TG1H101UP            | Yes                  | Yes        |
| C2, C3     | 2        | Ceramic Multilayer Capacitor              | 100nF, 50V, X7R | ±10%      | 0603              | Panasonic - ECG         | ECJ-1VB1H104K            | Yes                  | Yes        |
| C4         | 1        | Ceramic Multilayer Capacitor              | 220nF, 10V, X7R | ±10%      | 0603              | Kemet                   | C0603C224K8RACTU         | Yes                  | Yes        |
| C6, C7     | 2        | Ceramic Multilayer Capacitor              | 220nF, 25V, X7R | ±10%      | 0603              | Kemet                   | C0603C224K3RACTU         | Yes                  | Yes        |
| R1         | 1        | Thick Film Resistor                       | 0Ω, 1/16W       | ±5%       | 0402              | Vishay/Dale             | CRCW04020000Z0ED         | Yes                  | Yes        |
| R2         | 1        | Thick Film Resistor                       | 100Ω, 1/16W     | ±1%       | 0402              | Vishay/Dale             | CRCW0402100RFKED         | Yes                  | Yes        |
| R3         | 1        | Thick Film Resistor                       | 0Ω, 1/16W       | ±5%       | 1206              | Vishay/Dale             | CRCW12060000Z0EA         | Yes                  | Yes        |
| CON1       | 1        | PLUG, VERTICAL, 2ROW, 18WAY               | -               | -         | 5.96mm x 23.55mm  | Harwin                  | M80-8541842              | Yes                  | Yes        |
| CON2       | 1        | PLUG, VERTICAL, 2ROW, 14WAY               | -               | -         | 5.96mm x 19.55mm  | Harwin                  | M80-8541442              | Yes                  | Yes        |