

Bill of Materials for the LV8714TAGEVK Evaluation Kit



| Designator | Quantity | Description | Value | Tolerance | Footprint | Manufacturer | Manufacturer Part Number | Substitution Allowed | Lead Free |
|----------------|----------|---------------------------------------|---------------------|-----------|----------------|---------------------------|--------------------------|----------------------|-----------|
| IC1 | 1 | Motor Driver | - | - | TQFP48 EP | ON Semiconductor | LV8714TA | No | Yes |
| IC2 | 1 | Operational Amplifier | - | - | SOIC-8 | ON Semiconductor | MC33072DR2G | No | Yes |
| IC3 | 1 | Potentiometer | | | TSSOP24 | ON Semiconductor | CAT5251YI-00-T2 | No | Yes |
| R1 | 1 | Ch1 output current detective Resistor | 1.5k Ω ,0.1W | \pm 5% | 1608(0603Inch) | KOA | RK73B1JT152J | Yes | Yes |
| R2 | 1 | Ch2 output current detective Resistor | 1.5k Ω ,0.1W | \pm 5% | 1608(0603Inch) | KOA | RK73B1JT152J | Yes | Yes |
| R3 | 1 | Ch3 output current detective Resistor | 1.5k Ω ,0.1W | \pm 5% | 1608(0603Inch) | KOA | RK73B1JT152J | Yes | Yes |
| R4 | 1 | Ch4 output current detective Resistor | 1.5k Ω ,0.1W | \pm 5% | 1608(0603Inch) | KOA | RK73B1JT152J | Yes | Yes |
| R5,R6 | 2 | Resistor for Low pass filter | 100k Ω ,0.1W | \pm 5% | 1608(0603Inch) | KOA | RK73B1JT104J | Yes | Yes |
| C1 | 1 | VM bypass Capacitor | 47 μ F, 50V | \pm 20% | - | SUN Electronic Industries | 50ME47HC | Yes | Yes |
| C2 | 1 | VREG5 stabilization Capacitor | 0.1 μ F, 100V | \pm 10% | 1608(0603Inch) | Murata | GRM188R72A104KA35* | Yes | Yes |
| C3 | 1 | VCC Bypass Capacitor for IC2 | 0.1 μ F, 100V | \pm 10% | 1608(0603Inch) | Murata | GRM188R72A104KA35* | Yes | Yes |
| C4,C5 | 2 | Capacitor for Low pass filter | 0.1 μ F, 100V | \pm 10% | 1608(0603Inch) | Murata | GRM188R72A104KA35* | Yes | Yes |
| C6 | 1 | VCC Bypass Capacitor for IC3 | 0.1 μ F, 100V | \pm 10% | 1608(0603Inch) | Murata | GRM188R72A104KA35* | Yes | Yes |
| Daughter Board | 1 | Interface board | - | - | - | ON Semiconductor | - | No | Yes |
| CN-A1,A2,B | 3 | Female Socket | - | - | - | MAC8 | PM-61 | Yes | Yes |
| CON1,CON2 | 2 | Motor Connector | - | - | - | PHOENIX CONTACT | MPT 0,5/4-2,54 | Yes | Yes |
| TP1-5 | 5 | Test Point | - | - | - | MAC8 | ST-1-3 | Yes | Yes |
| USB cable | 1 | A-MiniB | - | - | - | - | - | Yes | Yes |
| Ref Motor | 2 | Stepper Motor | - | - | - | NIDEC SANKYO Corporation | MSCA020A55 | Yes | Yes |