

# Bill of Materials

**TI DESIGNS**

TIPD142: Sample &amp; Hold Glitch Reduction for Precision Outputs

| Item | Quantity | Designator  | Description   | Manufacturer        | PartNumber         | Supplier | Supplier Part Number |
|------|----------|---|---|---------------------|--------------------|----------|----------------------|
| 1    | 12       | C1, C2, C3, C4, C5, C14, C15, C16, C17, C18, C19, C20 | CAP, CERM, 1uF, 25V, +/-10%, X5R, 0603  | MuRata              | GRM188R61E105KA12D | Digi-Key | 490-3897-1-ND        |
| 2    | 6        | C6, C7, C8, C9, C10, C11                              | CAP, CERM, 510 pF, 50 V, +/- 5%, C0G/NP0, 0402  | MuRata              | GRM1555C1H511JA01D | Digi-Key | 490-3237-1-ND        |
| 3    | 1        | C12   | CAP, CERM, 300pF, 50V, +/-5%, C0G/NP0, 0603   | MuRata              | GRM1885C1H301JA01D | Digi-Key | 490-1438-1-ND        |
| 4    | 1        | C13   | CAP, CERM, 8200 pF, 25 V, +/- 5%, C0G/NP0, 0603   | TDK                 | C1608C0G1E822J     | Digi-Key | 445-2668-1-ND        |
| 5    | 3        | J1, J3, J4  | Header, 100mil, 2x1, Gold, TH   | Samtec              | TSW-102-07-G-S     | Digi-Key | SAM1029-02-ND        |
| 6    | 1        | J2  | Header, 100mil, 3x1, Gold, TH   | Samtec              | TSW-103-07-G-S     | Digi-Key | SAM1029-03-ND        |
| 7    | 2        | J5, J7  | Connector, Receptacle, 100mil, 10x2, Gold plated, TH  | Samtec, Inc.        | SSW-110-23-F-D     |          |                      |
| 8    | 1        | J6  | Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH  | On-Shore Technology | ED555/2DS          | Digi-Key | ED1514-ND            |
| 9    | 4        | R1, R2, R3, R4  | RES, 10.0 k, 1%, 0.1 W, 0402  | Panasonic           | ERJ-2RKF1002X      | Digi-Key | P10.0KLCT-ND         |
| 10   | 6        | R6, R7, R8, R9, R10, R11                              | RES, 24.3, 1%, 0.063 W, 0402  | Vishay-Dale         | CRCW040224R3FKED   | Digi-Key | 541-24.3LCT-ND       |
| 11   | 1        | R12   | RES, 10.0, 1%, 0.1 W, 0603  | Vishay-Dale         | CRCW060310R0FKEA   | Digi-Key | 541-10.0HCT-ND       |
| 12   | 1        | R13   | RES, 14.7, 1%, 0.1 W, 0603  | Vishay-Dale         | CRCW060314R7FKEA   | Digi-Key | 541-14.7HCT-ND       |
| 13   | 1        | R14   | RES, 0, 5%, 0.1 W, 0603   | Vishay-Dale         | CRCW06030000Z0EA   | Digi-Key | 541-0.0GCT-ND        |
| 14   | 1        | TP1   | Test Point, Miniature, Orange, TH   | Keystone            | 5003               | Digi-Key | 5003K-ND             |
| 15   | 1        | TP2   | Test Point, Miniature, White, TH  | Keystone            | 5002               | Digi-Key | 5002K-ND             |
| 16   | 2        | TP3, TP4  | Test Point, Miniature, Black, TH  | Keystone            | 5001               | Digi-Key | 5001K-ND             |
| 17   | 1        | U1  | 18-Bit, Single-Channel, Low-Noise, Voltage-Output DIGITAL-TO-ANALOG CONVERTER, RGE0024B           | Texas Instruments   | DAC9881SRGET       | Digi-Key | 296-23702-1-ND       |
| 18   | 1        | U2  | High Voltage, Rail-to-Rail Input/Output, Precision Operational Amplifiers, e-trim™ Series, D0008A | Texas Instruments   | OPA2192IDR         | Digi-Key | 296-42106-1-ND       |
| 19   | 1        | U3  | SPST CMOS ANALOG SWITCHES, DBV0005A   | Texas Instruments   | TS12A4515DBVR      | Digi-Key | 296-24268-1-ND       |

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