

# Bill of Materials

# MCP3221 SAR ADC EVB

Part Number: EV55L49A  
 Assy Number: 02-00326  
 PCB Number: 04-11442  
 Revision: 1  
 Creation Date: 06-Jun-22



| Designator              | Description                                              | Manufacturer                    | Part Number        |
|-------------------------|----------------------------------------------------------|---------------------------------|--------------------|
| C1, C3, C5, C6, C7, C8  | CAP CER 1uF 16V 10% X7R SMD 0603                         | Würth Electronics Inc           | 885012206052       |
| C2, C4                  | CAP CER 4.7uF 10V 10% X5R SMD 0603                       | KEMET                           | C0603C475K8PACTU   |
| C9, C10, C11            | CAP CER 0.1uF 16V 10% X7R SMD 0603                       | AVX                             | 0603YC104KAT2A     |
| D1                      | DIO SCTKY 1PS76SB10 800mV 200mA 30V SOD-323              | NXP Semiconductors              | 1PS76SB10,115      |
| FB1, FB2                | FERRITE BEAD 1 KOHM 0603 1LN                             | Würth Electronics Inc.          | 742792662          |
| J1                      | CON TERMINAL 5.08mm 1x2 EUROSTYLE TH RA                  | Adam Tech                       | EB21A-02-D         |
| J2                      | CON USB2.0 MICRO-B FEMALE SMD R/A                        | FCI                             | 10118192-0001LF    |
| J3, J4                  | CON HDR-2.54 Male 1x8 Gold 5.84MH TH                     | FCI                             | 68001-108HLF       |
| LABEL1                  | LABEL PCBA 18x6mm Datamatrix Assy# / Rev / Serial / Date | ACT Logimark AS                 | 505462             |
| LD1                     | DIO LED GREEN 3.2V 20mA 430mcd Clear SMD 0603            | Würth Electronics Inc           | 150060GS75000      |
| R1, R2, R3, R5          | RES TF 10k 1% 1/16W SMD 0603                             | TE Connectivity Passive Product | CPF0603F10KC1      |
| R4                      | RES TKF 100R 1% 1/10W SMD 0603                           | Panasonic                       | ERJ-3EKF1000V      |
| <b>Microchip Parts</b>  |                                                          |                                 |                    |
| U1                      | MCHP ANALOG LDO 3.3V MCP1754ST-3302E/CB SOT-23A-3        | Microchip Technology            | MCP1754ST-3302E/CB |
| U2                      | MCHP INTERFACE USB I2C UART MCP2221A-I/ST TSSOP-14       | Microchip Technology            | MCP2221A-I/ST      |
| U3                      | MCHP ANALOG ADC-SAR 12-bit MCP3221A5T-E/OT SOT-23-5      | Microchip Technology            | MCP3221A5T-E/OT    |
| <b>Mechanical Parts</b> |                                                          |                                 |                    |
| CBL1                    | MECH HW CABLE USB Male A TO USB Male Micro-B 0.91M       | Qualtek                         | 3025030-03         |