

Isolated HV Measurement Board BoM Rev 1.0

| # | Qty | Reference(s) | Value | Description | MPN | Order Code |
|----|-----|--|----------------|--|------------------------|--------------------|
| 1 | 9 | C1, C2, C3, C5, C6, C13, C16, C17, C18 | 1u | Cap 0805 | GENERIC | 3369302 |
| 2 | 4 | C4, C9, C14, C15 | 10u | Cap 1206 | GENERIC | 2113073 |
| 3 | 2 | C7, C8 | 10p | Cap 0805 NP0 | GENERIC | 3369276 |
| 4 | 3 | C10, C11, C12 | 47u | Cap Elec 6.3mm dia | GENERIC | 1144626 |
| 5 | 1 | C19 | 100n | Cap 0805 | GENERIC | 4061699 |
| 6 | 1 | D3 | LED | LED 1210 Example: ASMT-BG20-AS000 | ASMT-BG20-AS000 | 1603886 |
| 7 | 1 | J1 | SMA Conn | SMA Right Angle e.g. Molex 73391-0080 | GENERIC | 2579835 |
| 8 | 1 | J2 | 2-way Pin Hdr | 2.54mm Pin Header 2-way | GENERIC | N/A |
| 9 | 1 | J3 | DC Socket | DC Socket 5.5+2.1mm, DC10A | FC68148 | 224959 |
| 10 | 3 | L1, L2, L3 | 2mH | CM Choke 9.2x6mm Example: SRF0905A-202Y | SRF0905A-202Y | 4203907 |
| 11 | 2 | L4, L5 | 200uH | CM Choke 1210 Example: DLW32MH201XK2L | DLW32MH201XK2L | 2913625 |
| 12 | 1 | OPTO1 | HCNR200-300E | Linear Optocoupler SMD | HCNR200-300E | 8549710 |
| 13 | 3 | R1, R2, R4 | 47k | Res 0805 | GENERIC | 9237836 |
| 14 | 1 | R3 | 300R | Res 0805 | GENERIC | 4177753 |
| 15 | 5 | R5, R8, R9, R13, R16 | 1k | Res 0805 | GENERIC | 1469847 |
| 16 | 1 | R6 | 100k | Res 0805 | GENERIC | 1469860 |
| 17 | 1 | R11 | 39k | Res 0805 | GENERIC | 1576482 |
| 18 | 2 | R14, R15 | 82k | Res 0805 | GENERIC | 2447729 |
| 19 | 2 | R7, R17 | 0R | Res 2512 0-ohm Example: RC2512JK-070RL | RC2512JK-070RL | 9235825 |
| 20 | 2 | R10, R12 | 500M | Res 2512 Vishay CRHP2512AF500MFKE1 | CRHP2512AF500MFKE1 | 3357767 |
| 21 | 1 | U1 | OPA2197DGK | OpAmp Dual, VSSOP (DGK) package | OPA2192 or OPA2197 DGK | OPA2197 is 3117396 |
| 22 | 2 | U2, U5 | MCP1541T | Voltage Ref 4.096V SOT23 | MCP1541T-I/TT | 1084310 |
| 23 | 1 | U3 | OPA197 | OpAmp SOT23-5 OPA197IDBVT | OPA197IDBVT | 3004840 |
| 24 | 1 | U4 | 5V DC-DC Isol. | DC-DC 5Vin, +-5Vout Traco TMA, TBA, TMR 2, XP IAxxxxS, IHxxxxS | TMA 0505D | 1007514 |
| 25 | 1 | U6 | TPS60403 | Voltage Inverter Charge Pump SOT23-5 | TPS60403DBV | 3123050 |