

# Isolated HV Measurement Board BoM Rev 1.0

#	Qty	Reference(s)	Value	Description	MPN	Order Code
1	10	C1, C2, C3, C5, C6, C13, C16, C17, C18, C20	1u	Cap 0805	GENERIC	3369302
2	4	C4, C9, C14, C15	10u	Cap 1206	GENERIC	2113073
3	2	C7, C8	10p	Cap 0805 NPO	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, IHxxxS	TMA 0505D	1007514
25	1	U6	TPS60403	Voltage Inverter Charge Pump SOT23-5	TPS60403DBV	3123050
26	1	R18	47R	Res 0805	GENERIC	1653007