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bq76PL455EVM

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer
BAT0, BAT16, CHP, COMMH+, COMMH-, COMML+, COMML-, FLT-N, FLTH+, FLTH-, FLTL+, FLTL-, RX, S0, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S13, S14, S15, S16, TOP, TX, V5VA0, VDIG, VIO, VM, VP1, VREF, WAKEUP	39	White	Test Point, Miniature, White, TH	White Miniature Testpoint	5002	Keystone
C17, C18	2	1uF	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	0603	C1608X7R1C105K	TDK
C19, C29, C31, C32, C34, C35, C37, C38	8	0.1uF	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603	C1608X7R1H104K	TDK
C20, C21, C22, C23, C24, C25, C26, C27	8	1000pF	CAP, CERM, 1000pF, 1000V, +/-10%, X7R, 1206	1206	CC1206KKX7RCBB102	Yageo America
C28, C41, C66	3	4.7uF	CAP, CERM, 4.7uF, 16V, +/-10%, X7R, 0805	0805	GRM21BR71C475KA73 L	MuRata
C30, C43, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C61	16	1uF	CAP, CERM, 1uF, 100V, +/-10%, X7R, 1210	1210	GRM32CR72A105KA35 L	MuRata
C33	1	0.1uF	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 1210	1210	GRM32NR72A104KA01 L	MuRata
C36	1	4.7uF	CAP, CERM, 4.7uF, 50V, +/-10%, X7R, 1206	1206	GRM31CR71H475KA12 L	MuRata
C39, C59, C62, C63, C64	5	0.1uF	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	0603	C0603X104K3RACTU	Kemet
C40	1	1uF	CAP, CERM, 1uF, 100V, +/-10%, X7R, 1206	1206	GRM31CR72A105KA01 L	MuRata
C42	1	0.022uF	CAP, CERM, 0.022uF, 50V, +/-10%, X7R, 0603	0603	C1608X7R1H223K	TDK
C45, C67	2	0.1uF	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0603	0603	GRM188R71C104KA01 D	MuRata
C60	1	1.8uF	CAP, CERM, 1.8uF, 25V, +/-10%, X7R, 1210	1210	C1210C185K3RACTU	Kemet
C68	1	2700pF	CAP, CERM, 2700pF, 50V, +/-5%, C0G/NP0, 0805	0805	08055A272JAT2A	AVX
C69	1	1200pF	CAP, CERM, 1200pF, 50V, +/-5%, C0G/NP0, 0805	0805	08055A122JAT2A	AVX
C70	1	560pF	CAP, CERM, 560pF, 50V, +/-5%, C0G/NP0, 0805	0805	08055A561JAT2A	AVX
C71	1	390pF	CAP, CERM, 390pF, 50V, +/-5%, C0G/NP0, 0805	0805	08055A391JAT2A	AVX
D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D22	17	Green	LED 570NM GREEN DIFF 1206 SMD	1206	HSMG-C150	Avago Technologies
D17, D18, D20, D21	4	100V	Diode, Ultrafast, 100V, 0.15A, SOD-123	SOD-123	1N4148W-7-F	Diodes Inc.
D19	1	40V	Diode, Schottky, 40V, 1A, SOD-123	SOD-123	1N5819HW-7-F	Diodes Inc.
GND	1	Triple	Terminal, Turret, TH, Triple	Keystone1598-2	1598-2	Keystone
H1, H2, H3, H4	4		Machine Screw, Round, #4-40 x 1/4, Nylon, Phillips panhead	Screw	NY PMS 440 0025 PH	B&F Fastener Supply
H5, H6, H7, H8	4		Standoff, Hex, 0.5"L #4-40 Nylon	Standoff	1902C	Keystone

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J1	1		2.54mm Pitch SL Crimp Housing, Single Row, 22 Circuits	70555-0056	70555-0056	Molex
J2	1		MOLEX CONN RECEPT 16POS 3MM VERT DUAL	43045-1601	43045-1601	Molex
J3	1		Right Angle Header, TH, 100mil, 6x1	22-12-4062	22-12-4062	Molex
J4, J5	2		Right Angle Header, TH, 100mil, 4x1, 15u Gold Plate	70551-0038	70551-0038	Molex
OUT	1	SMT	Test Point, Miniature, SMT	Testpoint_Keystone_Miniature	5015	Keystone
P1	1		Header, TH, 100mil, 7x2, Gold plated, 230 mil above insulator	7x2 Header	TSW-107-07-G-D	Samtec, Inc.
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16	16	60V	MOSFET, N-CH, 60V, 0.38A, SOT-23	SOT-23	2V7002KT1G	ON Semiconductor
Q17	1		TRANS 150V 1A NPN LED DRVR TO252	DPAK	ZXTN4004KTC	Diodes/Zetex
Q18	1	-40V	MOSFET, P-CH, -40V, -2.3A, SOT-23	SOT-23	SI2319DS-T1-E3	Vishay-Siliconix
Q19	1	60V	MOSFET, N-CH, 60V, 0.24A, SOT-23	SOT-23	2N7002E-T1-E3	Vishay-Siliconix
R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16	16	75	RES 75 OHM 1W 1% 2512 SMD	2512	CRCW251275R0FKEG	Vishay/Dale
R17, R50, R53, R56, R63, R66, R68, R70, R72	9	10.0k	RES, 10.0k ohm, 1%, 0.1W, 0603	0603	CRCW060310K0FKEA	Vishay-Dale
R18, R21, R22, R23, R24, R77, R82, R85, R90, R93, R98, R101, R106, R109, R114, R117, R122, R125, R130, R133, R137	21	100k	RES, 100k ohm, 1%, 0.1W, 0603	0603	RC0603FR-07100KL	Yageo America
R19	1	49.9k	RES, 49.9k ohm, 1%, 0.1W, 0603	0603	RC0603FR-0749K9L	Yageo America
R20	1	100	RES, 100 ohm, 1%, 0.25W, 1206	1206	CRCW1206100RFKEA	Vishay-Dale
R25, R26, R27, R28, R29, R30, R31, R32	8	10.0	RES, 10.0 ohm, 1%, 0.25W, 1206	1206	CRCW120610R0FKEA	Vishay-Dale
R33, R35, R36, R37	4	49.9	RES, 49.9 ohm, 1%, 0.1W, 0603	0603	CRCW060349R9FKEA	Vishay-Dale
R34	1	100	RES, 100 ohm, 1%, 0.1W, 0603	0603	CRCW0603100RFKEA	Vishay-Dale
R51, R55, R58, R65, R67, R69, R71, R73	8	10.0	RES, 10.0 ohm, 1%, 0.1W, 0603	0603	CRCW060310R0FKEA	Vishay-Dale
R52, R54	2	200	RES 200 OHM 1W 5% 2512 SMD	2512	CRCW2512200RJNEG	Vishay/Dale
R57, R59	2	0	RES, 0 ohm, 5%, 0.1W, 0603	0603	CRCW06030000Z0EA	Vishay-Dale
R60, R76, R81, R83, R89, R91, R97, R99, R105, R107, R113, R115, R121, R123, R129, R131, R136	17	2.00k	RES, 2.00k ohm, 1%, 0.1W, 0603	0603	CRCW06032K00FKEA	Vishay-Dale
R61, R62	2	1.00	RES, 1.00 ohm, 1%, 0.1W, 0603	0603	RC0603FR-071RL	Yageo America
R64	1	0.39	RES, 0.39 ohm, 1%, 0.1W, 0603	0603	ERJ-3RQFR39V	Panasonic

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer
R74, R75, R78, R79, R80, R84, R86, R87, R88, R92, R94, R95, R96, R100, R102, R103, R104, R108, R110, R111, R112, R116, R118, R119, R120, R124, R126, R127, R128, R132, R134, R135, R138	33	1.00k	RES, 1.00k ohm, 1%, 0.1W, 0603	0603	CRCW06031K00FKEA	Vishay-Dale
SW1	1		SWITCH DIP 4-POS SLIDE SMD	CHS-04TA	CHS-04TA	Copal
SW2	1		SWITCH DIP DPDT 1POS SMT		204-221ST	CTS Electrocomponents
T1, T2, T3, T4	4		CHOKE COMMON MODE 2200 OHM .4A	744242xxx	744242471	Würth
T5, T6, T7, T8	4		CHOKE COMMON MODE 5800 OHM .15A	ACT45B	ACT45B-101-2P	TDK
U1	1		16 Cell Battery Stack Monitor with Passive Cell Balancing	VHB80A	bq76PL455TPFCQ1	Texas Instruments
U2	1		UHS Inverter 2.4ns into 50pF at 5V	SOT23-5	NC7SZ04M5X	Fairchild
Z1, Z2, Z3, Z4, Z5, Z6, Z7, Z8, Z9, Z10, Z11, Z12, Z13, Z14, Z15, Z16	16	6.2V	DIODE ZENER 6.2V 500MW SOD-123	SOD-123	DDZ6V2B-7	Diodes Inc
Z19	1		DIODE TVS 90V 400W UNI 5% SMA	SMA	SMAJ90A	Littlefue Inc
Z20, Z21, Z22, Z23, Z24, Z25, Z26, Z27	8		DIODE ESD PROT UNI 5V SOD323-2	SOD-323	PESD5V0U1UA,115	NXP
ZZ1	1		USB Serial Cable		TTL-232R-5V	FTDI
C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16	0	1uF	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	0603	C1608X7R1C105K	TDK
C44	0	4700pF	CAP, CERM, 4700pF, 25V, +/-5%, C0G/NP0, 0805	0805	08053A472JAT2A	AVX
R38, R39, R40, R41, R42, R43, R44, R45	0	0	RES, 0 ohm, 5%, 0.1W, 0603	0603	CRCW06030000Z0EA	Vishay-Dale

Notes:

Unless otherwise noted in the Alternate PartNumber and/or Alternate Manufacturer columns, all parts may be substituted with equivalents.