evel	item_number	quantity	item_name	
0	040-00030		PCA, Energy Management	
1	000-00002	15	Test Points, PCB Mount, Miniature, SMT	
1	100-00030	1	PCB, Energy Management	
1	110-00051	1	RF Shield Frame 0.650" x 0.650" x 0.142", SMT	
1	120-00055	2	Heatsink, PCB Level, Arc Reactor	
	320-00004		Conn, Microcoaxial RF, PCB Vert Jack Receptacle, SMT	
1	320-00044	1	Conn, HDR, 12-Pos .05" R/A SMT	
	320-00097		Conn, Isolated Terminal Power Header, 16- Pos, TH	
1	320-00102	1	Conn, Header, 8-Pos Dual Row, Micro Fit,	
1	320-00103	1	Conn, Header, 4-Pos Mega Fit, w/ top latch, TH	
1	320-00111	1	Conn, Header, 4-Pos, 4.20mm, R/A, TH	
	320-00124		Conn, Header, 10-Pos Dual Row, Micro Fit, Vert, TH	
1	420-00018	1	Switch, Tactile, SPST-NO 0.05A, 12V, SMT	
1	420-00021	1	Switch, Tactile, SPST-NO, 0.05A, 12V, 3.85mm height, R/A, TH	
1	420-00028	2	Switch, Tactile, SPST-NO, Microminiature, Top Actuated, SMT	
1	510-00001	11	Cap, Cer, 0.1uF, 50V, +/-10%, X5R, 0402	
1	510-00003	20	Cap, Cer, 1uF, 25V, +/-20%, X5R, 0402	
1	510-00004	4	Cap, Cer, 1uF, 50V, +/-10%, X5R, 0603	
1	510-00006	1	Cap, Cer, 33pF, 50V, +/-5%, C0G (NP0), 0402	
1	510-00008	2	Cap, Cer, 10pF, 50V, +/-5%, C0G (NP0), 0402	
1	510-00009	2	Cap, Cer, 0.01uF, 50V, +/-10%, X7R, 0402	
1	510-00014	3	Cap, Cer, 4.7uF, 100V, +/-20%, X7S, 1210	
1	510-00015	2	Cap, Cer, 2.2uF, 16V, +/-20%, X5R, 0402	
1	510-00016	1	Cap, Cer, 4.7uF, 50V, +/-10%, X5R, 0805	
1	510-00017	1	Cap, Cer, 100pF, 50V, +/-5%, C0G (NP0), 0402	
1	510-00019	1		

1 1 5	10-00022	31	Can Car 10 E & 9\/ 900/ VED 0809
		3	Cap, Cer, 10uF, 6.3V, +/-20%, X5R, 0603
1 5	10-00024	1	Cap, Cer, 0.047uF, 50V, +/-10%, X7R, 0402
1 5	10-00026	3	Cap, Cer, 10uF, 35V, +/-10%, X5R, 0805
1 5	10-00041	2	Cap, Cer, 0.01uF, 100V, +/-10%, X7R, 0603
1 5	10-00049	1	Cap, Cer, 22uF, 10V, +/-20%, X5R, 0603
1 5	10-00061	2	Cap, Cer, 0.033uF, 50V, +/-10%, X7R, 0603
1 5	10-00070	1	Cap, Cer, 0.47µF, 100V, +/-10%, X7R, 1206
1 5	10-00071	2	Cap, Cer, 4700pF, 25V, +/-10%, X7R, 0402
1 5	10-00084	4	Cap, Cer, 0.1uF, 100V, +/-10%, X5R, 0402
15	10-00094	1	Cap, Cer, 47uF, 16V, +/-20%, X5R, 1206
1 5	10-00100	1	Cap, Cer, 2.2pF, 50V, +/-0.1pF, C0G (NP0), 0402
15	10-00107	26	Cap, Cer, 10pF, 50V, +/-5%, C0G (NP0), 0201
1 5	10-00108		Cap, Cer, 1.2pF, 50V, +/-0.1pF, C0G (NP0), 0402
1 5	10-00120	1	Cap, Cer, 0.1uF, 100V, +/-10%, X7R, 0805
15	20-00002	28	Res, TkF, 10K Ohm, +/-1%, 0.063W, 0402
1 5	20-00004	1	Res, TnF, 10K Ohm, +/-0.1%, 0.063W, 0402
15	20-00011	19	Res, TkF, 100K Ohm, +/-1%, 0.063W, 0402
1 5	20-00012	8	Res, TkF, 0.0 Ohm Jumper, 0.063W, 0402
1 5	20-00023	19	Res, TkF, 1K Ohm, +/-1%, 0.063W, 0402
1 5	20-00062	1	Res, TkF, 3.3K Ohm, +/-1%, 0.063W, 0402
1 5	20-00063	1	Res, TkF, 5.23K Ohm, +/-1%, 0.063W, 0402
1 5	20-00068	2	Res, TkF, 100 Ohm, +/-1%, 0.063W, 0402
1 5	20-00081	1	Res, TkF, 523K Ohm, +/-1%, 0.063W, 0402

1	520-00083	6	Res, TkF, 220 Ohm, +/-1%, 0.063, 0402
1	520-00089	2	Res, TkF, 2M Ohm, +/-1%, 0.063W, 0402
1	520-00103	5	Res, TkF, 1.0M Ohm, +/-1%, 0.063W, 0402
1	520-00110	1	Res, TkF, 240 Ohm, +/-5%, 0.667W, 1206
1	520-00129	1	Res, TkF, 2.1K Ohm, +/-1%, 0.063W, 0402
1	520-00157	1	Res, TkF, 1 Ohm, +/-1%, 0.063W, 0402
	520-00165		Res, TkF, 33K Ohm, +/-1%, 0.063W, 0402
1	520-00176	1	Res, TkF, 10M Ohm, +/-1%, 0.063W, 0402
1	520-00178	3	Res, TkF, 49.9 Ohm, +/-1%, 0.063W, 0402
1	520-00196	1	Res, TkF, 200K Ohm, +/-1%, 0.063W, 0402
1	520-00215	1	Res, TnF, 590K Ohm, +/-0.1%, 0.125W, 0805
1	520-00218	11	Res, TkF, 100 Ohm, +/-1%, 0.125W, 0805
1	520-00298	1	Res, TkF, 255K Ohm, +/-1%, 0.063W, 0402
1	520-00303	1	Res, Metal Film, 10m Ohm, +/-1%, 2W, 2512
1	520-00306	15	Res, TkF, 49.9 Ohm, +/-1%, 0.5W, 1210
1	520-00317	1	Res, TkF, 590K Ohm, +/-1%, 0.063W, 0402
1	520-00332	1	Res, Metal Element, 1m Ohm, +/-1%, 5W, 2512
1	520-00350	1	Res, TkF, 54.9K Ohm, +/-1%, 0.1W, 0603
1	560-00007	4	Ferrite Bead, 120 Ohm, 100MHz, 1.2A, 0402
1	560-00035	1	Inductor, Fixed, 22µH, 1.5A, 129 mOhm, SMT
1	560-00050	1	Inductor, Multilayer, 1µH, 800mA, 0805
	560-00061		Inductor, Chip, 3.6nH, +/-2%, 0402
	560-00075		Inductor, Fixed, 2.2nH, 220mA, 300M Ohm, 0402
1	560-00082	1	Inductor, Fixed, 1nH, 400mA, 100M Ohm, 0402
1	570-00001	3	Thermistor, 10K Ohm, 100mW, 0402
1	590-00007		Antenna, Bluetooth, 2.4 GHz, SMT (mirror footprint)
1	610-00003	2	LED, Green/Clear, 574nm, 2.2V, 20mA, 0402
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1	610-00009	3	LED, Bi-color Red/Green, Diffused, 0404
1	610-00021	5	LED, White/Diffused 2.9V, 5mA, 0402
1	620-00001	1	Crystal, 32.768kHz, 20ppm, 12.5pF, SMT
1	620-00010	1	Crystal, 38.4MHz, 10pF, 40 Ohm, SMD-4
1	630-00004	4	Mosfet, P-CH, 100V, 28A, PwrPAK SO-8
1	630-00005	4	Mosfet, N-CH, 80V, 60A, PwrPAK SO-8
1	630-00014	1	Diode, Schottky, 100V, 150mA, SOD-123
1	630-00017	1	Diode, Switching, 100V, 200mA, SOD-323
1	630-00026	9	Mosfet, N-CH, 50V, 200mA, SOT-23-3
1	630-00046	1	Diode, Schottky, 100V, 2A, DO-214AA
1	630-00049	4	Diode, Zener, 15V, 1W, DO-214AC
1	630-00068	1	Diode, TVS, 78V, 400W, 126VC, Bi-
			directional, DO-214AC
1	630-00069		Mosfet, N-CH, 100V, 1.4A, SOT-23
1	630-00071		Mosfet, Array, Dual P-CH, 20V, 830mA, SOT-563
1	630-00072	16	Diode, Zener, 5.6V, 200mW, SOD-323
1	630-00073	6	Diode, Fast Recovery, 200V, 1A, (Mini2-F4-B) SOD-123F
1	630-00076	4	Mosfet, N-CH, 100V, 180A, SMT D2PAK
1	630-00077	2	Mosfet, P-CH, 100V, 600mA, SOT-23-3
1	630-00084	2	Mosfet, N-CH, 60V, 340mA, SOT-323
1	630-00085	4	Diode, Zener, 16V, 100mW, SOD-523
1	630-00087	2	Diode, TVS, 75V, 121V, DO-214AB
1	640-00040	1	IC, High-Side OR-ing FET Controller, N-CH, TSOT-23-6
1	655-00013	1	IC, Flash, 8M-BIT, 104MHz, (USON-8) 2x3, UDFN-8
1	660-00015	1	IC, RF Transceiver + MCU, Bluetooth, 2.4GHz, VFQFN-48
1	665-00005	1	IC, Precision Monitor, MSOP-10
1	665-00016		IC, Battery Monitor, TSSOP-44
1	665-00017		IC, Battery Monitor, TSSOP-30
1			IC, N-Channel FET Driver Battery Protection, TSSOP-16
1	670-00020	1	IC, Buck Regulator, 60V, 0.6A, SOT-23-6
1	670-00023	1	IC, Buck Switching Regulator, 500mA, UDFN-6

reference_designator	manufacturer_1
	Sanmina - SLC
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8,	Keystone Electronics
TP16, TP17, TP18, TP19, TP20, TP21, TP22	
TP22	
SH1	Laird Technology
	Land Teermology
HS1, HS2	QVS Marketing
J6	Molex
12	Comto
J3 J5	Samtec
J5	Samtec
J12	Molex
17	Malan
J7	Molex
J4	Samtec
J8	Molex
SW1	E-Switch
SW2	E-Switch
SW3, SW4	C&K Components
	our component
	Murata Electronics
C47, C80	
C49, C50, C51, C52, C53, C54, C55, C56,	Murata Electronics
C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C81, C90	
C35, C38, C45, C48	Samsung Electro-Mechanics
C71	Murata Electronics
	Indiata Electronice
C99, C101	AVX Corp
007 000	AVV Com
C67, C92	AVX Corp
C12, C27, C75	Murata Electronics
C14, C68	Murata Electronics
C42	Murata Electronics
C100	AVX Corp
000	Manage Flaggeries
C98	Murata Electronics
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C69, C89, C91	Kemet
C43	Murata Electronics
C37, C40, C41	Murata Electronics
C28, C29	AVX Corp
C73	Murata Electronics
C33, C34	Kemet
C10	Murata Electronics
C36, C39	Kemet
C2, C3, C4, C5	Murata Electronics
C11	Murata Electronics
C87	Murata Electronics
C94, C95, C96, C97, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111, C112, C113, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124	Murata Electronics
C86, C88	Murata Electronics
C6	AVX Corp
R25, R26, R30, R46, R55, R56, R69, R72, R76, R79, R82, R85, R89, R90, R96, R97, R102, R103, R107, R110, R113, R119, R122, R127, R128, R129, R142, R143	KOA Electronics
R54	Panasonic Electronic Components
R2, R3, R7, R8, R9, R10, R13, R34, R36, R49, R51, R57, R59, R61, R62, R63, R65, R66, R117	KOA Electronics
R27, R28, R38, R41, R48, R132, R140, R141	Samsung Electro-Mechanics
R68, R71, R73, R75, R78, R81, R84, R87, R88, R92, R94, R95, R100, R101, R106, R109, R112, R115, R144	KOA Electronics
R60	Samsung Electro-Mechanics
R120	KOA Electronics
R44, R45	Samsung Electro-Mechanics
R58	KOA Electronics

	R4, R5, R6, R11, R12, R116	KOA Electronics
R64 Panasonic Electronic Components R121 Samsung Electro-Mechanics R134 Samsung Electro-Mechanics R145 Samsung Electro-Mechanics R37 Samsung Electro-Mechanics R39 Samsung Electro-Mechanics R20, R23, R29 Samsung Electro-Mechanics R50 Samsung Electro-Mechanics R52 Panasonic Electronic Components R16, R17, R18, R19, R22, R24, R31, R40, R42, R53, R67 R15 Samsung Electro-Mechanics R21 Stackpole Electronics Inc. (SEI) R70, R74, R77, R80, R83, R86, R91, R93, R98, R99, R104, R105, R108, R111, R114 R43 Stackpole Electronic Components R43 Stackpole Electronic Inc. (SEI) R47 Vishay R118 Panasonic Electronic Components L10, L11, L12, L13 Wurth Electronic L3 Laird Technology L2 Murata Electronics L6, L7 Coilcraft L9 Murata Electronics L8 Murata Electronics TS1, TS2, TS3 Murata Electronics TS1, TS2, TS3 Johanson Technology	R39, R137	Samsung Electro-Mechanics
R121 Samsung Electro-Mechanics R134 Samsung Electro-Mechanics R145 Samsung Electro-Mechanics R37 Samsung Electro-Mechanics R37 Samsung Electro-Mechanics R20, R23, R29 Samsung Electro-Mechanics R50 Samsung Electro-Mechanics R52 Panasonic Electronic Components R16, R17, R18, R19, R22, R24, R31, R40, R42, R53, R67 R15 Samsung Electro-Mechanics R21 Stackpole Electronics Inc. (SEI) R70, R74, R77, R80, R83, R86, R91, R93, R98, R99, R104, R105, R108, R111, R114 R43 Stackpole Electronic Components R47 Vishay R118 Panasonic Electronic Components L10, L11, L12, L13 Wurth Electronik L3 Laird Technology L2 Murata Electronics L6, L7 Coilcraft L9 Murata Electronics L8 Murata Electronics TS1, TS2, TS3 Murata Electronics TS1, TS2, TS3 Johanson Technology	R1, R14, R135, R136, R146	Samsung Electro-Mechanics
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R70, R74, R77, R80, R83, R86, R91, R93, R98, R99, R104, R105, R108, R111, R114 R43 R44 R45 R47 Vishay R118 Panasonic Electronic Components L10, L11, L12, L13 Wurth Electronic Laird Technology L2 Murata Electronics L6, L7 Coilcraft L9 Murata Electronics Murata Electronics Murata Electronics L8 Murata Electronics Murata Electronics Murata Electronics Murata Electronics Murata Electronics Murata Electronics Johanson Technology		Samsung Electro-Mechanics
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L3 Laird Technology L2 Murata Electronics L6, L7 Coilcraft L9 Murata Electronics L8 Murata Electronics TS1, TS2, TS3 Murata Electronics AT1 Johanson Technology	R118	Panasonic Electronic Components
L2 Murata Electronics L6, L7 Coilcraft L9 Murata Electronics L8 Murata Electronics TS1, TS2, TS3 Murata Electronics AT1 Johanson Technology	L10, L11, L12, L13	Wurth Electronik
L6, L7 Coilcraft L9 Murata Electronics L8 Murata Electronics TS1, TS2, TS3 Murata Electronics AT1 Johanson Technology	L3	Laird Technology
L6, L7 Coilcraft L9 Murata Electronics L8 Murata Electronics TS1, TS2, TS3 Murata Electronics AT1 Johanson Technology	L2	Murata Electronics
L9 Murata Electronics L8 Murata Electronics TS1, TS2, TS3 Murata Electronics AT1 Johanson Technology		
TS1, TS2, TS3 Murata Electronics AT1 Johanson Technology		
AT1 Johanson Technology	L8	Murata Electronics
AT1 Johanson Technology	TS1, TS2, TS3	Murata Electronics
D37, D38 Lumex		
, 1	D37, D38	Lumex

D3, D4, D6	Dialight
D16, D17, D18, D19, D20	Rohm Semiconductor
Y1	Abracon Corp
Y2	Abracon Corp
Q1, Q9, Q10, Q30	Vishay
Q11, Q26, Q31, Q32	Vishay
D41	Diodes Inc
D15	Micro Commercial Components
Q2, Q3, Q4, Q5, Q6, Q7, Q25, Q35, Q36	ON Semiconductor
D8	Diodes Inc
D9, D45, D46, D47	Micro Commercial Components
D1	Bourns
Q15, Q16	Diodes Inc
Q17, Q18, Q19, Q20, Q21, Q22, Q23, Q24	Fairchild / ON Semiconductor
D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D44	Diodes Inc
D12, D13, D14, D39, D40, D43	Panasonic Electronic Components
Q12, Q13, Q33, Q34	Infineon
Q14, Q27	Diodes Inc
Q28, Q29	Diodes Inc
D2, D5, D7, D36	Micro Commercial Components
D10, D11	Littelfuse
U10	Texas Instruments
U9	Macronix
U8	Silicon Labs
U1	Renesas Electronics
U3	Texas Instruments
U4	Texas Instruments
U2	Texas Instruments
U6	Texas Instruments
U5	Fairchild / ON Semiconductor

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aiyo Yuden	UMK105BJ104KVHF
amsung Electro-Mechanics	CL05A105KA5NQNC
aiyo Yuden	UMK107BJ105KA-T
amsung Electro-Mechanics	CL05C330JB5NNNC
emet	C0402C100J5GACTU
furata Electronics	GRM155R71H103KA88D
aiyo Yuden	HMK325C7475MM-PE
aiyo Yuden	EMK105ABJ225MV-F
amsung Electro-Mechanics	CL21A475KBQNNNE
furata Electronics	GRM1555C1H101JA01D
amsung Electro-Mechanics	CL05B224KO5NNNC
1	amsung Electro-Mechanics aiyo Yuden amsung Electro-Mechanics emet lurata Electronics aiyo Yuden aiyo Yuden amsung Electro-Mechanics

C0603C106M9PACTU	Murata Electronics	GRM188R60J106ME47J
GRM155R71H473KE14D	TDK Corp	C1005X7R1H473K050BB
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C0603C333K5RACTU	Murata Electronics	GRM188R71H333KA61D
GRM31MR72A474KA35L	Taiyo Yuden	HMK316B7474KL-T
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GRM31CR61C476ME44L	TDK Corp	C3216X5R1C476M160AB
GRM1555C1H2R2BA01D	Samsung Electro-Mechanics	CL05C2R2BB5NNNC
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RK73H1ETTP1002F	Samsung Electro-Mechanics	RC1005F103CS
ERA-2AEB103X	Stackpole Electronics Inc. (SEI)	RNCF0402BTE10K0
RK73H1ETTP1003F	Samsung Electro-Mechanics	RC1005F104CS
RC1005J000CS	Stackpole Electronics Inc. (SEI)	RMCF0402ZT0R00
RK73H1ETTP1001F	Samsung Electro-Mechanics	RC1005F102CS
RC1005F332CS	Stackpole Electronics Inc. (SEI)	RMCF0402FT3K30
RK73H1ETTP5231F	Stackpole Electronics Inc. (SEI)	RMCF0402FT5K23
RC1005F101CS	Stackpole Electronics Inc. (SEI)	RMCF0402FT100R
RK73H1ETTP5233F	Samsung Electro-Mechanics	RC1005F5233CS

RK73H1ETTP2200F	Samsung Electro-Mechanics	RC1005F221CS
RC1005F205CS	Venkel LTD.	CR0402-16W-2004FT
RC1005F105CS	Stackpole Electronics Inc. (SEI)	RMCF0402FT1M00
ERJ-P08J241V		
RC1005F2101CS	Stackpole Electronics Inc. (SEI)	RMCF0402FT2K10
RC1005F1R0CS	Stackpole Electronics Inc. (SEI)	RMCF0402FT1R00
RC1005F333CS	Stackpole Electronics Inc. (SEI)	RMCF0402FT33K0
RC1005F106CS	Venkel LTD.	CR0402-16W-1005FT
RC1005F49R9CS	Stackpole Electronics Inc. (SEI)	RMCF0402FT49R9
RC1005F204CS	Stackpole Electronics Inc. (SEI)	RMCF0402FT200K
ERA-6AEB5903V	Yageo	RT0805BRD07590KL
CR0805-FX-1000ELF	Panasonic Electronic Components	ERJ-6ENF1000V
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CSNL2512FT10L0	Yageo	PE2512FKE7W0R01L
ERJ-14NF49R9U	Stackpole Electronics Inc. (SEI)	RMCF1210FT49R9
RMCF0402FT590K	Vishay	CRCW0402590KFKED
WSLF25121L000FEA		
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LQP15MN1N0B02D		
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2450AT43B100E		
SML-LX0402SUGC-TR		

SCMP13WBC8W1 ABS07-32.768KHZ-T Interquip Electronics SCMP13WBC8W1 ABS07-32.768KHZ-T Interquip Electronics SI7489DP-T1-GE3 SI	597-7707-507F		
ABS07-32.768KHZ-T Interquip Electronics 9CAA32768122TF70QT ABM10-165-38.400MHZ-T3 Vishay SI7489DP-T1-GE3 SI7489DP-T1-E3 Vishay SIR826DP-T1-GE3 BAT46W-7-F SIR826ADP-T1-GE3 BAY19WS-TP SIR826DP-T1-GE3 BAY19WS-TP SIR826DP-T1-GE3 BY 100-13-F SIR826ADP-T1-GE3 SMAJ4744A-TP SIR826ADP-T1-GE3 SMAJ478CA Littelfuse SMAJ78CA DMN10H220L-7 FDY1002PZ BZT52C5V6S-7-F SIR826ADP-T1-GE3 BZT52C5V6S-7-F SIR826ADP-T1-GE3 DA22F2100L SIR826ADP-T1-GE3 DA22F210ADP-T1-GE3 DA2			†
SI7489DP-T1-E3		Interquip Electronics	9CAA32768122TF70QT
SIR826ADP-T1-GE3 SIR826ADP-T1-GE3 BAT46W-7-F BAV19WS-TP BSS138LT1G B2100-13-F SMAJ4744A-TP SMAJ78CA Littelfuse SMAJ78CA DMN10H220L-7 FDY1002PZ BZT52C5V6S-7-F DA22F2100L IRFS4010TRLPBF ZXMP10A15FTA DMN61D9UW-7 BZT52C16T-TP SMCJ75CA LMS050MK-1/NOPB MX25R8035FZUIH1 EFR32MG12P432F1024GM48-C Silicon Labs EFR32MG12P432F1024GM48-B BQ76300PWR LMR16006YDDCR	ABM10-165-38.400MHZ-T3		
BAT46W-7-F BAV19WS-TP BSS138LT1G B2100-13-F SMAJ4744A-TP SMAJ78CA Littelfuse SMAJ78CA DMN10H220L-7 FDY1002PZ BZT52C5V6S-7-F DA22F2100L IRFS4010TRLPBF ZXMP10A13FTA DMN61D9UW-7 BZT52C16T-TP SMCJ75CA LM5050MK-1/NOPB MX25R8035FZUIH1 EFR32MG12P432F1024GM48-C Silicon Labs EFR32MG12P432F1024GM48-B BQ763400DBT BQ7630DBT-R1 BQ76200PWR LMR16006YDDCR	SI7489DP-T1-E3	Vishay	SI7489DP-T1-GE3
BAV19WS-TP BSS138LT1G B2100-13-F SMAJ4744A-TP SMAJ78CA Littelfuse SMAJ78CA DMN10H220L-7 FDY1002PZ BZT52C5V6S-7-F DA22F2100L IRFS4010TRLPBF ZXMP10A13FTA DMN61D9UW-7 BZT52C16T-TP SMCJ75CA LM5050MK-1/NOPB MX25R8035FZUIH1 EFR32MG12P432F1024GM48-C SIlicon Labs EFR32MG12P432F1024GM48-B BQ78350DBT-R1 BQ76200PWR LMR16006YDDCR		Vishay	SIR826DP-T1-GE3
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	FAN5362UMP33X		

Taiyo Yuden	manufacturer_3	manufacturer_item_number_3	manufacturer_4
Taiyo Yuden TMK105BJ105MV-F TDK Corp CGA3E3X5R1H105K080AB Venkel LTD. TDK Corp C1005C0G1H330J050BA Murata Electronics GRM1555C1H100JA01D Samsung Electro-Mechanics Samsung Electro-Mechanics CL05B103KB5NNNC Venkel LTD. TDK Corp C3225X7S2A475M200AB TDK Corp TDK Corp C1005X5R1C225M050BC Taiyo Yuden UMK212BBJ475KG-T TDK Corp			
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Samsung Electro-Mechanics CL05B103KB5NNNC Venkel LTD. TDK Corp C3225X7S2A475M200AB TDK Corp TDK Corp C1005X5R1C225M050BC Taiyo Yuden UMK212BBJ475KG-T TDK Corp	TDK Corp	C1005C0G1H330J050BA	
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TDK Corp C1005X5R1C225M050BC Taiyo Yuden UMK212BBJ475KG-T TDK Corp	Samsung Electro-Mechanics	CL05B103KB5NNNC	Venkel LTD.
Taiyo Yuden UMK212BBJ475KG-T TDK Corp	TDK Corp	C3225X7S2A475M200AB	TDK Corp
	TDK Corp	C1005X5R1C225M050BC	
Samsung Electro-Mechanics CL05C101JB5NNNC Taiyo Yuden	Taiyo Yuden	UMK212BBJ475KG-T	TDK Corp
1	Samsung Electro-Mechanics	CL05C101JB5NNNC	Taiyo Yuden
Taiyo Yuden EMK105B7224KV-FR TDK Corp	Taiyo Yuden	EMK105B7224KV-FR	TDK Corp

Samsung Electro-Mechanics	CL10A106MQ8NNNC	Taiyo Yuden
Venkel LTD.	C0402X7R500-473KNP	
Venkel LTD.	C0805X5R350-106KNE	
TDK Corp	CGA3E2X7R2A103K080AA	Venkel LTD.
Taiyo Yuden	LMK107BBJ226MA-T	TDK Corp
Samsung Electro-Mechanics	CL10B333KB8NNNC	Samsung Electro-Mechanics
TDK Corp	C3216X7R2A474K160AA	
Samsung Electro-Mechanics	CL05B472KA5NNNC	Taiyo Yuden
Venkel LTD.	C1206X5R160-476MNE	
Venkel LTD.	C0201C0G500-100JNP	Yageo
TDK Corp Stackpole Electronics Inc. (SEI)	C2012X7R2A104K125AA RMCF0402FT10K0	Vishay
Cusuman	DC4005D 400 D T5	TE Connectivity
Susumu	RG1005P-103-B-T5	TE Connectivity
Stackpole Electronics Inc. (SEI)	RMCF0402FT100K	Venkel LTD.
Vishay	CRCW04020000Z0ED	Yageo
Stackpole Electronics Inc. (SEI)	RMCF0402FT1K00	Vishay
Venkel LTD.	CR0402-16W-3301FT	
Vishay	CRCW04025K23FKED	
Venkel LTD.	CR0402-16W-1000FT	Yageo
Stackpole Electronics Inc. (SEI)	RMCF0402FT523K	Yageo

Stackpole Electronics Inc. (SEI)	RMCF0402FT220R	
Vishay	CRCW04022M00FKED	
Vishay	CRCW04021M00FKED	Yageo
Vishay	CRCW04022K10FKED	
Vishay	CRCW04021R00FKED	Yageo
Venkel LTD.	CR0402-16W-3302FT	Yageo
Vishay	CRCW040210M0FKED	Yageo
Yageo	RC0402FR-0749R9L	
Venkel LTD.	CR0402-16W-2003FT	Yageo
Stackpole Electronics Inc. (SEI)	RMCF0805FT100R	Yageo
Stackpole Electionics Inc. (SEI)	RIVICEO803F1100R	rageo
Vishay	CRCW0402255KFKED	Yageo
Vishay	CRCW121049R9FKEA	Yageo
Yageo	RC0402FR-07590KL	
Vishay	CRCW060354K9FKEA	Yageo
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manufacturer_item_number_4	manufacturer_5	manufacturer_item_number_5	manufacturer_6
C1005X5R1H104K050BB	Venkel LTD.	C0402X5R500-104KNP	Walsin Technology
CGB2A1X5R1E105K033BC	TDK Corp	C1005X5R1E105M050BC	Venkel LTD.
C0603X5R500-105KNP	Yageo	CC0603KRX5R9BB105	
CL05C100JB5NNNC	Venkel LTD.	C0402C0G500-100JNP	Walsin Technology
C0402X7R500-103JNP	Walsin Technology	0402B103K500CT	Yageo
CGA6M3X7S2A475M200AB	Venkel LTD.	C1210X7S101-475KNE	
CGA4J3X5R1H475K125AB	Venkel LTD.	C0805X5R500-475KNE	
UMK105CG101JV-F	Venkel LTD.	C0402C0G500-101JNP	Yageo
C1005X7R1C224K050BC	Venkel LTD.	C0402X7R160-224KNP	Yageo

JMK107BJ106MA-T	Venkel LTD.	C0603X5R6R3-106MNP	
C0603X7R101-103KNP			
C1608X5R1A226M080AC	Venkel LTD.	C0603X5R100-226MNE	
CL10B333KB8SFNC	TDK Corp	CGA3E2X7R1H333K080AA	Yageo
TMK105B7472KV-F	Yageo	CC0402KRX7R8BB472	
CC0201JRNPO9BN100			
	W. I. T. I. I.	NIDO ANAGOSTI	
CRCW040210K0FKED	Walsin Technology	WR04X1002FTL	
CPF0402B10KE1			
CR0402-16W-1003FT	Vishay	CRCW0402100KFKED	
RC0402JR-070RL			
CRCW04021K00FKED	Walsin Technology	WR04X1001FTL	Yageo
RC0402FR-07100RL			
RC0402FR-07523KL			

RC0402FR-071ML		
RC0402FR-071RL		
RC0402FR-0733KL		
RC0402FR-0710ML		
RC0402FR-07200KL		
RC0805FR-07100RL		
RC0402FR-07255KL		
AC1210FR-0749R9L		
RC0603FR-0754K9L		

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manufacturer_item_number_6
0402X104K500CT
C0402X5R250-105MNP
040001400150017
0402N100J500LT
CC0402KRX7R9BB103
CC0403 IDNIDOODN404
CC0402JRNPO9BN101
CC0402KRX7R7BB224

CC0603KRX7R9BB333
RC0402FR-131KL
INOUNUZI IN-131NL

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