TIDA-1582

TEXAS INSTRUMENTS

PWR881 REV E2 Bill of Materials

FOBT	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1, 2, 3, 4, 5, 6, 7, 8 131-4244-0 131-4244-0 131-4244-0 0 0 0 0 0 0 0 0 0	IDCR1	1	value				FackageReference
S		Ω	131-/2//		,		0.200 inch
C1	1, 2, 3, 4, 3, 0, 7,	_	_	131-4244-00	Tektionix	Adaptor, 5.5-mm probe clip (or 151-5051-00)	0.200 IIICH
C2, C4	C1			GPM210P71F105KA88D	MuRata	CAP CERM 1 HE 25 V ±/- 10% X7R 0805	0805
C3							
Ca. C25							
CR							
CF, C30, C45 3 10.0F GRM18B7/14106MA73D MuRata CAP, CERM, 10.0F, 10.1 v. + 20%, XTT, 0603 0603							
CS, C31 2 2 4.7uF GRM155R614475MEAD MuRata CAP, CERM, 47 µF, 10 V, +/- 20%, X5R, 0402 0402							
C9							
C10, C18, C22, C25 C26 C27 C27 C28 C27 C28 C28 C29 C30 C30 C41 C41 C41 C42 C42 C43 C43 C43 C44 C45 C45 C47 C48 C47 C48 C48 C47 C48							
C25, C26							
C11		3	Toul	GRW21BR71A100RE31E	Wulkata	CAF, CERNI, 10 μ1, 10 V, 47-10/8, X/12, 0003	0003
C13, C14, C16, C17, C20, C21, C23, C24, C33, C34, C36, C37, C30, C24, C33, C34, C36, C37, C30, C37, C37, C37, C37, C37, C37, C37, C37		1	0.047uF	GRM155R71E473KA88D	MuRata	CAP, CERM, 0.047 μF, 25 V, +/- 10%, X7R, 0402	0402
C27, C20, C21, C23, C24, C33, C34, C36, C37, C38, C39, C40, C41 C15, C35	C12	1	1uF	C1608X7R1C105K080AC	TDK	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603	0603
C23, C24, C33, C37, C38, C39, C40, C41 C34, C36, C37, C38, C39, C40, C41 C55, C35	C13, C14, C16,	16	20uF	GRMJN7R61C206ME05	MuRata	CAP, CERM, 20 µF, 16 V, +/- 20%, X5R, 0704	0704
C34, C36, C37, C38, C39, C40, C41 C15, C35	C17, C20, C21,						
C34, C36, C37, C38, C39, C40, C41 C15, C35	C23, C24, C33,						
C41	C34, C36, C37,						
C41							
C19, C51, C52 3 4.7μF GRM188R61C475KAAJ MuRata CAP, CERM, 4.7μF, 16 V, 4+ 10%, X5R, 0603 0603 C27, C42, C43, C42, C43, C44, C46, C47 6 0.1μF C1608X7R1E104K080AA TDK CAP, CERM, 0.1μF, 25 V, 4+ 10%, X7R, 0603 0603 C32 1 10uF C2012X5R1E106K125AB TDK CAP, CERM, 10μF, 25 V, 4+ 10%, X7R, 0603 0603 C49, C50 2 1uF GRM188R71E105KA12D MuRata CAP, CERM, 10μF, 25 V, 4+ 10%, X7R, 0603 0603 C59, C60 2 270pF GRM188R71E105KA12D MuRata CAP, CERM, 1μF, 25 V, 4+ 10%, X7R, 0603 0603 C61 1 0.01μF GRM188R71E105KA12D MuRata CAP, CERM, 1μF, 25 V, 4+ 10%, X7R, 0603 0603 C61 1 0.01μF GRM188R71E103KA01D MuRata CAP, CERM, 01μF, 25 V, 4+ 10%, X7R, 0603 0603 D1, D3, D4, D5, D6 5 Green LTST-C190GKT Lite-On LED, Green, SMD 1.6x0.8x0.8x0.8mm D6 1 13V SMAJ13A Littelfuse Diode, TVS, Uni, 13 V, SMA SMA D7	C41						
C27, C42, C43, 6 0.1uF C1608X7R1E104K080AA TDK CAP, CERM, 0.1 µF, 25 V, +/- 10%, X7R, 0603 0603 0603 0603 0603 0603 0603 060	C15, C35	2	22uF	GRM188R61A226ME15D	MuRata	CAP, CERM, 22 µF, 10 V, +/- 20%, X5R, 0603	0603
C44, C46, C47 C32 1 10uF C2012X5R1E106K125AB TDK CAP, CERM, 10 μF, 25 V, +/- 10%, X5R, 0805 C49, C50 2 1uF GRM188R71E102KA01D MuRata CAP, CERM, 10 μF, 25 V, +/- 10%, X7R, 0603 0603 C59, C60 2 270pF GRM15SR71H271KA01D MuRata CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0603 0603 C59, C60 2 270pF GRM15SR71H271KA01D MuRata CAP, CERM, 10 μF, 25 V, +/- 10%, X7R, 0603 0603 C59, C60 2 270pF GRM15SR71H271KA01D MuRata CAP, CERM, 10 μF, 25 V, +/- 10%, X7R, 0603 0603 C59, C60 2 270pF GRM15SR71H271KA01D MuRata CAP, CERM, 10 μF, 25 V, +/- 10%, X7R, 0603 0603 C59, C60 2 270pF GRM15SR71H271KA01D MuRata CAP, CERM, 10 μF, 25 V, +/- 10%, X7R, 0603 0603 C59, C60 2 270pF GRM15SR71H271KA01D MuRata CAP, CERM, 10 μ μF, 25 V, +/- 10%, X7R, 0603 0603 C59, C60 2 270pF GRM15SR71H271KA01D MuRata CAP, CERM, 10 μ μF, 25 V, +/- 10%, X7R, 0603 0603 C59, C60 2 270pF GRM15SR71H271KA01D MuRata CAP, CERM, 10 μ μF, 25 V, +/- 10%, X7R, 0603 0603 C59, C60 2 270pF GRM15SR71H271KA01D MuRata CAP, CERM, 10 μ μF, 25 V, +/- 10%, X7R, 0603 0603 C59, C60 2 270pF GRM15SR71H271KA01D MuRata CAP, CERM, 10 μ μF, 25 V, +/- 10%, X7R, 0603 0603 C59, C60 2 270pF GRM15SR71H271KA01D MuRata CAP, CERM, 1 μ μ, 25 V, +/- 10%, X7R, 0603 0603 C49, CERM, 1 μ μ, 25 V, +/- 10%, X7R, 0603 0603 C59, C60 2 270pF GRM15SR71H271KA01D MuRata CAP, CERM, 1 μ μ, 25 V, +/- 10%, X7R, 0603 0603 C49, CERM, 10 μ μ, 25 V, +/- 10%, X7R, 0603 0603 C59, C60 2 270pF GRM15SR71H271KA01D MuRata CAP, CERM, 1 μ μ, 25 V, +/- 10%, X7R, 0603 0603 C59, C60 2 270pF GRM15SR71H271KA01D MuRata CAP, CERM, 1 μ μ, 25 V, +/- 10%, X7R, 0603 0603 C49, CERM, 10 μ, 27, 10 μ, X7R, 0603 0603 C49, CERM, 1 μ μ, 25 V, +/- 10%, X7R, 0603 0603 C49, CERM, 1 μ μ, 25 V, +/- 10%, X7R, 0603 0603 C49, CERM, 1 μ μ, 25 V, +/- 10%, X7R, 0603 0603 C49, CERM, 2 μ μ, 2 μ, 2 ν, 4 μ, 2 μ, 4 μ, 4 μ, 4 μ, 4 μ, 4 μ, 4 μ	C19, C51, C52	3	4.7uF	GRM188R61C475KAAJ	MuRata	CAP, CERM, 4.7 µF, 16 V, +/- 10%, X5R, 0603	0603
C32	C27, C42, C43,	6	0.1uF	C1608X7R1E104K080AA	TDK	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X7R, 0603	0603
C48 1 1000pF GRM188R71E102KA01D MuRata CAP, CERM, 1000 pF, 25 V, +/- 10%, X7R, 0603 0603 C49, C50 2 1uF GRM188R71E105KA12D MuRata CAP, CERM, 11, F, 25 V, +/- 10%, X7R, 0603 0603 C59, C60 2 270pF GRM188R71E103KA01D MuRata CAP, CERM, 270 pF, 50 V,+/- 10%, X7R, 0402 0402 C61 1 0.01uF GRM188R71E103KA01D MuRata CAP, CERM, 0.01 µF, 25 V,+/- 10%, X7R, 0603 0603 D1, D3, D4, D5, D6 Green LTST-C190GKT Lite-On LED, Green, SMD 1.6x0.8x0.8mm D6 LTST-C190GKT Lite-On LED, Green, SMD 1.6x0.8x0.8mm D6 LTST-C190GKT Lite-On LED, Green, SMD 1.6x0.8x0.8mm D7 1 13V SMAJ13A Littleffuse Diode, TVS, Uni, 13 V, SMA SMA D8, D9 2 3.6V MMSZ52227B-7F Diodes Inc. Diode, Switching, 75 V, 0.15 A, SOT-323 SOT-323 D10 1 5V SP4021-01FTG Littelfuse Diode, TVS, Uni, 5 V, 19.6 Vc, SOD-323 SOD	C44, C46, C47						
C49, C50 2 1uF GRM188R71E105KA12D MuRata CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0603 0603 C59, C60 2 270pF GRM15SR71H271KA01D MuRata CAP, CERM, 270 pF, 50 V, +/- 10%, X7R, 0402 0402 C61 1 0.01uF GRM188R71E103KA01D MuRata CAP, CERM, 0.01 μF, 25 V, +/- 10%, X7R, 0603 0603 D1, D3, D4, D5, D6 5 Green LTST-C190GKT Lite-On LED, Green, SMD 1.6x0.8x0.8mm D6 1 13V SMAJ13A Lite-On LED, Green, SMD SMA D7 1 75V BAV99W-7-F Diodes Inc. Diode, Switching, 75 V, 0.15 A, SOT-323 SOT-323 D8, D9 2 3.6V MMSZ5227B-7-F Diodes Inc. Diode, Zener, 3.6 V, 500 mW, SOD-123 SOD-123 D10 1 5V SP4021-01FTG Littelfuse Diode, TVS, Uni, 5 V, 19.6 Vc, SOD-323 SOD-323 H1, H3, H5, H7 4 1902C Keystone Standoff, Lex, 0.5°L #4-40 Nylon Standoff H2, H4, H6, H8 4 NY PMS 440 0025 PH <td< td=""><td>C32</td><td>1</td><td>10uF</td><td>C2012X5R1E106K125AB</td><td>TDK</td><td>CAP, CERM, 10 µF, 25 V, +/- 10%, X5R, 0805</td><td>0805</td></td<>	C32	1	10uF	C2012X5R1E106K125AB	TDK	CAP, CERM, 10 µF, 25 V, +/- 10%, X5R, 0805	0805
C59, C60	C48	1	1000pF	GRM188R71E102KA01D	MuRata	CAP, CERM, 1000 pF, 25 V, +/- 10%, X7R, 0603	0603
C61 1 0.01uF GRM188R71E103KA01D MuRata CAP, CERM, 0.01 μF, 25 V,+/- 10%, X7R, 0603 0603 D1, D3, D4, D5, D6 5 Green LTST-C190GKT Lite-On LED, Green, SMD 1.6x0.8x0.8mm D2 1 13V SMAJ13A Littelfuse Diode, TVS, Uni, 13 V, SMA SMA D7 1 75V BAV99W-7-F Diodes Inc. Diode, Switching, 75 V, 0.15 A, SOT-323 SOT-323 D8, D9 2 3.6V MMSZ5227B-7-F Diodes Inc. Diode, Zener, 3.6 V, 500 mW, SOD-123 SOD-123 D10 1 5V SP4021-01FTG Littelfuse Diode, TVS, Uni, 5 V, 19.6 Vc, SOD-323 SOD-323 H1, H3, H5, H7 4 1902C Keystone Standoff, Hex, 0.5°L #4-40 Nylon Standoff H2, H4, H6, H8 4 NY PMS 440 0025 PH B&F Fastener Supply Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead Screw J1, J2, J3, J4, J6, J17, J18, J19, J19, J19, J19, J19, J19, J19, J19	C49, C50	2	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
D1, D3, D4, D5, D6 S Green LTST-C190GKT Lite-On LED, Green, SMD LED, Green, SMD SMA	C59, C60	2	270pF	GRM155R71H271KA01D	MuRata	CAP, CERM, 270 pF, 50 V,+/- 10%, X7R, 0402	
D6 D2 1 13V SMAJ13A Littelfuse Diode, TVS, Uni, 13 V, SMA SMA D7 1 75V BAV99W-7-F Diodes Inc. Diode, Switching, 75 V, 0.15 A, SOT-323 SOT-323 D8, D9 2 3.6V MMSZ5227B-7-F Diodes Inc. Diode, Zener, 3.6 V, 500 mW, SOD-123 SOD-123 D10 1 5V SP4021-01FTG Littelfuse Diode, TVS, Uni, 5 V, 19.6 Vc, SOD-323 SOD-323 H1, H3, H5, H7 4 1902C Keystone Standoff, Hex, 0.5"L #4-40 Nylon Standoff H2, H4, H6, H8 4 NY PMS 440 0025 PH B&F Fastener Supply Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead Screw J1, J2, J3, J4, J6, J17, J18, J19, J10, J12, J13, J14, J15, J16, J17, J18, J19, J22, J24, J26, J27, J29, J30, J31, J30, J31, J30, J31, J30, J41, J39, J40, J41, PEC02SAAN Sullins Connector Solutions Header, 100mil, 2x1, Tin, TH Header, 100mil, Tin	C61	1	0.01uF	GRM188R71E103KA01D	MuRata	CAP, CERM, 0.01 µF, 25 V,+/- 10%, X7R, 0603	0603
D2 1 13V SMAJ13A Littelfuse Diode, TVS, Uni, 13 V, SMA SMA D7 1 75V BAV99W-7-F Diodes Inc. Diode, Switching, 75 V, 0.15 A, SOT-323 SOT-323 D8, D9 2 3.6V MMSZ5227B-7-F Diodes Inc. Diode, Zener, 3.6 V, 500 mW, SOD-123 SOD-123 D10 1 5V SP4021-01FTG Littelfuse Diode, TVS, Uni, 5 V, 19.6 Vc, SOD-323 SOD-323 H1, H3, H5, H7 4 1902C Keystone Standoff, Hex, 0.5"L #4-40 Nylon Standoff, Hex, 0.5"L #4-40 Nylon Standoff H2, H4, H6, H8 4 NY PMS 440 0025 PH B&F Fastener Supply Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead Screw J1, J2, J3, J4, J6, J7, J8, J9, J10, J17, J18, J19, J22, J24, J26, J27, J29, J30, J31, J30,	D1, D3, D4, D5,	5	Green	LTST-C190GKT	Lite-On	LED, Green, SMD	1.6x0.8x0.8mm
D7 1 75V BAV99W-7-F Diodes Inc. Diode, Switching, 75 V, 0.15 A, SOT-323 SOT-323 D8, D9 2 3.6V MMSZ5227B-7-F Diodes Inc. Diode, Zener, 3.6 V, 500 mW, SOD-123 SOD-123 D10 1 5V SP4021-01FTG Littelfuse Diode, TVS, Uni, 5 V, 19.6 Vc, SOD-323 SOD-323 H1, H3, H5, H7 4 1902C Keystone Standoff, Hex, 0.5"L #4-40 Nylon Standoff H2, H4, H6, H8 4 NY PMS 440 0025 PH B&F Fastener Supply Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead Screw J1, J2, J3, J4, J6, J3, J4, J6, J17, J18, J19, J10, J12, J13, J14, J19, J22, J24, J26, J27, J29, J30, J31, J30, J41, Willing Connector Solutions Header, 100mil, 2x1, Tin, TH Header, 100mil, Tin	D6						
D8, D9	D2	1			Littelfuse		
D10	D7						
H1, H3, H5, H7	D8, D9				Diodes Inc.		
H2, H4, H6, H8	D10	1	5V	SP4021-01FTG			SOD-323
J1, J2, J3, J4, J6, J9 PEC02SAAN Sullins Connector Solutions Header, 100mil, 2x1, Tin, TH Header, 2 PIN, 100mil, Tin 100mil, T	H1, H3, H5, H7	4		1902C			
J7, J8, J9, J10, J12, J13, J14, J15, J16, J17, J18, J19, J22, J24, J26, J27, J29, J30, J31, J39, J40, J41, J20, J41, J20, J41, J10, J10, J10, J10, J10, J10, J10, J1	H2, H4, H6, H8			NY PMS 440 0025 PH		Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
J7, J8, J9, J10, J12, J13, J14, J15, J16, J17, J18, J19, J22, J24, J26, J27, J29, J30, J31, J39, J40, J41,	J1, J2, J3, J4, J6,	29		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	
J15, J16, J17, J18, J19, J22, J24, J26, J27, J29, J30, J31, J39, J40, J41,	J7, J8, J9, J10,						100mil, Tin
J15, J16, J17, J18, J19, J22, J24, J26, J27, J29, J30, J31, J39, J40, J41,	J12, J13, J14,						
J18, J19, J22, J24, J26, J27, J29, J30, J31, J39, J40, J41,	J15, J16, J17,						
J24, J26, J27, J29, J30, J31, J39, J40, J41,	J18, J19, J22,						
J29, J30, J31, J39, J40, J41,	J24, J26, J27,						
J39, J40, J41,	J29, J30, J31,						
	J39, J40, J41,						
	J42, J43						

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
J5, J11, J28	3		1727010	Phoenix Contact	Conn Term Block, 2POS, 3.81mm, TH	2POS Terminal Block
J20, J21, J25,	8		TSW-103-07-T-S	Samtec	Header, 2.54 mm, 3x1, Tin, TH	Header, 2.54 mm,
J33, J34, J35,						3x1, TH
J37, J38						,
J23	1		20-000016-01	Lintes Technology	Connector, Receptacle, USB Type C, R/A, SMT	Connector,
					, , , , , , , , , , , , , , , , , , ,	Receptacle, USB
						Type C, SMT
J32, J36	2		22-05-3041	Molex	Header (friction lock), 100mil, 4x1, R/A, TH	4x1 R/A Header
J44	1		70246-0801	Molex	Header(shrouded), 2.54mm, 4x2, Gold, TH	Header(shrouded),
	· ·		10210 0001	Molex	rioddor(omoddod), 210 mmi, 172, Oold, 111	2.54mm, 4x2, TH
L1	1	1uH	IHLP2020BZER1R0M11	Vishay-Dale	Inductor, Shielded Drum Core, Powdered Iron, 1 µH, 7 A, 0.0181 ohm,	5.49x2x5.18mm
	· ·	lan	THE ZOZOBZEK TKOWTT	Violity Baile	SMD	0.400200.1011111
LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x
			1111 14 420 10	Brady	Thermal Transfer Filmable Eabele, 0.000 W X 0.200 Ti To,000 per foli	0.200 inch
Q1	1	30V	CSD17575Q3	Texas Instruments	MOSFET, N-CH, 30 V, 60 A, DQG0008A (VSON-CLIP-8)	DQG0008A
R1, R4, R6, R7,	13	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
R8, R19, R26,		Tok	01.0010402101.001423	Violity Baile	10 K, 070, 0.000 W, 0402	0.102
R27, R28, R30,						
R31, R34, R37						
R2	1	2.21k	CRCW04022K21FKED	Vishay-Dale	RES, 2.21 k, 1%, 0.063 W, 0402	0402
R3	1	18k	CRCW040218K0JNED	Vishay-Dale	RES, 18 k, 5%, 0.063 W, 0402	0402
R5, R10, R65,	6	1.00k	RC0603FR-071KL	Yageo America	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R66, R69, R70		1.00K	ROOGSI R OT IRE	rageo / inichea	1.00 K, 170, 0.1 W, 0000	0000
R9	1	130	CRCW0402130RFKED	Vishay-Dale	RES, 130, 1%, 0.063 W, 0402	0402
R11	1	0	CRCW25120000Z0EGHP	Vishay-Dale	RES, 0, 5%, 1.5 W, AEC-Q200 Grade 0, 2512	2512
R13	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R14	1	0	5106	Keystone	RES, 0, 1%, 0.5 W, 0805	0805
R15, R16, R33,	4	100	CRCW0603100RJNEA	Vishay-Dale	RES, 100, 5%, 0.1 W, 0603	0603
R35						
R17	1	30.1k	CRCW040230K1FKED	Vishay-Dale	RES, 30.1 k, 1%, 0.063 W, 0402	0402
R18	1	5.23k	CRCW04025K23FKED	Vishay-Dale	RES, 5.23 k, 1%, 0.063 W, 0402	0402
R21	1	180k	CRCW0402180KJNED	Vishay-Dale	RES, 180 k, 5%, 0.063 W, 0402	0402
R22	1	75k	CRCW040275K0JNED	Vishay-Dale	RES, 75 k, 5%, 0.063 W, 0402	0402
R23	1	39k	CRCW040239K0JNED	Vishay-Dale	RES, 39 k, 5%, 0.063 W, 0402	0402
R25	1	0.01	WSLP1206R0100FEA	Vishay-Dale	RES, 0.01, 1%, 1 W, 1206	1206
R29, R32, R38	3	100k	3266W-1-104LF	Bourns	Trimmer, 100k ohm, 0.25W, TH	4.5x8x6.7mm
R36	1	0.002	CSNL1206FT2L00	Stackpole Electronics Inc	RES, 0.002, 1%, 1 W, 1206	1206
R39, R40, R41,	4	2.20k	RC0603FR-072K2L	Yageo America	RES, 2.20 k, 1%, 0.1 W, 0603	0603
R42						
R43	1	200k	CRCW0402200KJNED	Vishay-Dale	RES, 200 k, 5%, 0.063 W, 0402	0402
R44, R48, R49,	15	100	RC0603FR-07100RL	Yageo America	RES, 100, 1%, 0.1 W, 0603	0603
R50, R51, R55,						
R56, R59, R60,						
R61, R62, R63,						
R64, R67, R68						
R45, R52	2	10.0k	RC0603FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R46	1	47.0k	RC0603FR-0747KL	Yageo America	RES, 47.0 k, 1%, 0.1 W, 0603	0603
R47	1	0	RC0603JR-070RL	Yageo America	RES, 0, 5%, 0.1 W, 0603	0603
R53, R54	2	499	RT0603DRE07499RL	Yageo America	RES, 499, 0.5%, 0.1 W, 0603	0603
R57, R58	2	4.70k	RC0603FR-074K7L	Yageo America	RES, 4.70 k, 1%, 0.1 W, 0603	0603
S1	1		ADTSM31NV	APEM	Switch, SPST-NO, Off-Mom, 0.05 A, 12 V, SMT	6x3.51mm

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
SH-J1, SH-J6, SH- J16, SH-J17, SH- J18, SH-J19, SH- J20s, SH-J21s, SH-J22, SH-J24, SH-J26, SH-J30, SH-J31, SH-J37s, SH-J38s, SH-J40, SH-J41, SH-J42, SH-J43	19	1x2	969102-0000-DA	ЗМ	Shunt, 100mil, Gold plated, Black	Shunt
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP21, TP22, TP23, TP24, TP25, TP26, TP27, TP28, TP29, TP30, TP31, TP32, TP33, TP34, TP35, TP36, TP37, TP38, TP39, TP40, TP41, TP42, TP43, TP44, TP45, TP46, TP49, TP66, TP67, TP68	50		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
TP47, TP48, TP50, TP51, TP52, TP53, TP54, TP55, TP56, TP57, TP58, TP59, TP60, TP61, TP62, TP63, TP65	17		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
TP64	1			Keystone	Test Point, Miniature, Yellow, TH	Yellow Miniature Testpoint
U2	1		BQ25890RTWR	Texas Instruments	I2C Controlled 5A Single Cell Charger with NVDC Power Path Management and MaxChargeTM High Voltage Adapter Support, RTW0024H (WQFN-24)	RTW0024H
U3	1		BQ25970YFFR		97% Efficient, 8A Switched Cap Battery Charger with Integrated Protection, I2C Programmability and ADC, YFF0056ACAJ (DSBGA-56)	YFF0056ACAJ

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
J4	1		TUSB422YFF	Texas Instruments	USB Type-C Port Control with Power Delivery, YFF0009AJAK (DSBGA-9)	YFF0009AJAK
U5	1		MSP430G2955IRHA40R	Texas Instruments	MIXED SIGNAL MICROCONTROLLER, RHA0040B (VQFN-40)	RHA0040B
U6	1		TPD2EUSB30DRTR	Texas Instruments	ESD Solution for Super-Speed (6 Gbps) USB 3.0 Interface, 2 Channels, - 40 to +85 degC, 3-pin SOT (DRT), Green (Rohs & No Sb/Br)	DRT0003A
U7	1		TS3USB221RSER	Texas Instruments	High-Speed USB 2.0 (480 Mbps) 1:2 Multiplexer / Demultiplexer Switch with Single Enable, 6 ohm RON, 2.5 to 3.3V, -40 to 85 degC, 10-Pin UQFN (RSE), Green (RoHS & no Sb/Br)	RSE0010A
U8, U9	2		TLV70433DBVR	Texas Instruments	Single Output LDO, 150 mA, Fixed 3.3 V Output, 2.5 to 24 V Input, with Ultra-Low IQ, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	DBV0005A
U10, U11, U12	3		TPD2EUSB30ADRTR	Texas Instruments	ESD / Surge Solution for High Speed, Low Voltage Interface, 2 Channels, 40 to +85 degC, 3-pin SOT (DRT), Green (RoHS & no Sb/Br)	DRT0003A
C53, C54, C55, C56	0	22uF	GRM188R61A226ME15D	MuRata	CAP, CERM, 22 μF, 10 V, +/- 20%, X5R, 0603	0603
C57, C58	0	10uF	GRM188D71A106MA73D	MuRata	CAP, CERM, 10 µF, 10 V, +/- 20%, X7T, 0603	0603
FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
R12, R20, R24	0	0	CRCW25120000Z0EGHP	Vishay-Dale	RES. 0. 5%. 1.5 W. AEC-Q200 Grade 0. 2512	2512
SH-J9, SH-J20p, SH-J21p, SH- J37p, SH-J38p, SH-J39	0	1x2	969102-0000-DA	3M	Shunt, 100mil, Gold plated, Black	Shunt
U1	0		BQ25970YFFR	Texas Instruments	97% Efficient, 8A Switched Cap Battery Charger with Integrated Protection, I2C Programmability and ADC, YFF0056ACAJ (DSBGA-56)	YFF0056ACAJ

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