

Item Number	Mounted	Unique Part name	Part Reference	Description	Manufacturer	Manufacturer Part Number	Remarks	Supplier	Supplier Code	PCB Footprint
1		CAPP_RUB_68UO_400V_20T_ALU_THT_BXW	C1	Capacitor; 68 µF; 20 %; 400 V; ALU; THT	Rubycon	400BXW68MEFC18X20		Farnell	2342037	CAPPRDV750W80D1800H2000TB_ISO
2			C3	Capacitor; 10 uF; 20 %; 35 V; ALU; THT	Rubycon	35ML10MEFC4X7		Farnell	8126542	CAPPRDV150W45D45H800TB_ISO
3			C4	Capacitor; 1000 uF; 20 %; 25 V; ALU; 10X20	Panasonic	EEUFR1E102		Farnell	1907238	CAPPRDV500W60D1000H2000TB_ISO
4			C5	Capacitor; 100 nF; 10 %; 50 V; X7R; 0402	TDK	C1005X7R1H104K050BB		Digikey	445-5932-1-ND	CAPC1005X60X66Y58C98N
5			C6	Capacitor; 47 nF; 10 %; 50 V; X7R; 0402	TDK	CGA2B3X7R1H473K050BB		Digikey	445-6897-1-ND	CAPC1005X60X66Y58C98N
6			C8	Capacitor; 1 nF; 10 %; 50 V; X7R; 0402	Kemet	C0402C102K5RACTU		Farnell	1414573	CAPC1005X60X66Y58C98N
7			C10	Capacitor; 100 pF; 5 %; 50 V; C0G; 0402	Kemet	C0402C101J5GACTU		Farnell	1414572	CAPC1005X60X66Y58C98N
8			C11	Capacitor; 10 nF; 10 %; 50 V; X7R; 0402	Kemet	C0402C103K5RACTU		Farnell	1414575	CAPC1005X60X66Y58C98N
9			C12	Capacitor; 680 pF; 10 %; 630 V; X7R; 1206	Kemet	C1206C681KBRACU		Digikey	399-5583-1-ND	CAPC3216X190X180Y115C300N
10			C14	Capacitor; 1 nF; 10 %; 50 V; X7R; 0402	Kemet	C0402C102K5RACTU		Farnell	1414573	CAPC1005X60X66Y58C98N
11			C15	Capacitor; 100 nF; 10 %; 50 V; X7R; 0402	TDK	C1005X7R1H104K050BB		Digikey	445-5932-1-ND	CAPC1005X60X66Y58C98N
12			C17	Capacitor; 100 nF; 10 %; 50 V; X7R; 0402	TDK	C1005X7R1H104K050BB		Digikey	445-5932-1-ND	CAPC1005X60X66Y58C98N
13			C18	Capacitor; 220 nF; 10 %; 10 V; X7R; 0402	TDK	C1005X7R1A224K050BB		Farnell	2354082	CAPC1005X60X66Y58C98N
14			C19	Capacitor; 68 pF; 5 %; 50 V; C0G; 0402	Kemet	C0402C680J5GACTU		Farnell	1414596	CAPC1005X60X66Y58C98N
15			C20	Capacitor; 470 pF; 5 %; 100 V;C0G; 0603	TDK	CGA3E2C0G2A471J080AA		Farnell	2210871	CAPC1608X95X100Y95C160N
16			C22	Capacitor; 1 nF; 5 %; 500 V; C0G; 0805	Yageo	CC0805JKNPOBBN102		Farnell	1284122	CAPC2013X145X115Y145C180N
17			C24	Capacitor; 3.3 pF; 0.25 pF; 50 V; C0G; 0402	AVX	06035A3R3CAT2A		Farnell	2332621	CAPC1608X95X95Y100C160N
18			C25	Capacitor; 4.7 µF; 10 %; 35 V; X7R; 0805	TDK	C2012X7R1V475K125AC		Farnell	2346947	CAPC2013X145X115Y145C180N
19			CX1	Capacitor; 330 nF; 20 %; 630 V; MKP; X2	Epcos	B32922C3334M189		Digikey	495-5052-1-ND	CAPRRV1500W80L1800T800H1400TB_ISO
20			CY1	Capacitor; 220 pF; 10 %; 250 VAC; DE1; X1/Y1	Murata	DE1B3XK221KA5B		Farnell	3531934	CAPRDV1000W60L900T800H1300TB_NXP_ISO
21		DIO_NXP_BAS316_SC76	D1	Diode; 100 V; 250 mA	NXP	BAS316		Farnell	8734275	SOD2513X110X90Y50C260N
22		DI2_NXP_BZX384-C8V2_SC76	D2	Diode; Zener; 8.2 V; 300 mA	NXP	BZX384-C8V2		Farnell	8735816	SOD2513X110X50Y90C260N
23		DIO_VIS_SA2M_DO214AC	D3	Diode; 1000 V; 2 A	Vishay	SA2M-E3-61T		Farnell	2335163	DIOM5127X229X220Y155C410N
24		DIO_NXP_BAS316_SC76	D4	Diode; 100 V; 250 mA	NXP	BAS316		Farnell	8734275	SOD2513X110X90Y50C260N
25		DIO_NXP_BAS316_SC76	D5	Diode; 100 V; 250 mA	NXP	BAS316		Farnell	8734275	SOD2513X110X90Y50C260N
26			D6	Diode; 1 kV; 1 A	Taiwan Semi.	S1ML		Farnell	1559155	SODFL3718X145X122Y112C320N
27			D7	Diode; 1 kV; 1 A	Taiwan Semi.	S1ML		Farnell	1559155	SODFL3718X145X122Y112C320N
28			D8	Diode; 1 kV; 3 A	Vishay	AS3PM-M3/86A		Mouser	625-AS3PM-M3/86A	TO277A_VIS_SMPC_SMT
29			D9	Diode; 1 kV; 3 A	Vishay	AS3PM-M3/86A		Mouser	625-AS3PM-M3/86A	TO277A_VIS_SMPC_SMT
30			D10	Diode; 1 kV; 3 A	Vishay	AS3PM-M3/86A		Mouser	625-AS3PM-M3/86A	TO277A_VIS_SMPC_SMT
31			D11	Diode; 1 kV; 3 A	Vishay	AS3PM-M3/86A		Mouser	625-AS3PM-M3/86A	TO277A_VIS_SMPC_SMT
32			F1	Fuse; 250 V; 2 A; Slow Blow	Multicomp	MCPMP 2A 250V		Farnell	1566019	FUSADH1016W64L760D318TB_ISO
33			FL1	Hole for flying lead M	N.L.C.	N.L.C.		N.L.C.	N.L.C.	WH_AWG18_0200_0100_0220
34			FL2	Hole for flying lead P	N.L.C.	N.L.C.		N.L.C.	N.L.C.	WH_AWG18_0200_0100_0220
35			FL3	Hole for flying lead SRP	N.L.C.	N.L.C.		N.L.C.	N.L.C.	WH_AWG24_0100_0050_0120
36			FL4	Hole for flying lead SRM	N.L.C.	N.L.C.		N.L.C.	N.L.C.	WH_AWG24_0100_0050_0120
37			J1	Hole for wire; Min	N.L.C.	N.L.C.		N.L.C.	N.L.C.	WH_AWG13_0360_0180_0380
38			J2	Hole for wire; Plus	N.L.C.	N.L.C.		N.L.C.	N.L.C.	WH_AWG13_0360_0180_0380
39			J3	Hole for inlet; N	N.L.C.	N.L.C.		N.L.C.	N.L.C.	WH_AWG16_0240_0120_0260
40			J4	Hole for inlet; L	N.L.C.	N.L.C.		N.L.C.	N.L.C.	WH_AWG16_0240_0120_0260
41			L1	Inductor; Common Mode; 16 mH; 1.5 A	NXP	TEA1836DB1200_L1	T16*12*8; d=0.6mm;	NXP	Customer Delivers Component	INDICB_NXP_TEA1836DB1200-R2_THT_ISO
42			Q1	MOSFET-N; 650V; 7.3A	Infineon	SPU07N60C3		Digikey	SPU07N60C3IN-ND	TO2511RR229W100P3L660T230H735TB_AT1_ISO
43			Q2	MOSFET-N; 100 V; 15 A; LFPK	NXP	PSMN012-100Y5,115		Digikey	568-4978-1-ND	TO127P600X120-5X60Y162C372N
44			R2	Resistor; 0 O; 63 mW; 0402	Vishay	CRCW04020000020ED		Farnell	1469661	RESC1106X84X73Y63C102N
45			R3	Resistor; 1 kO; 1 %; 63 mW; 0402	Vishay	CRCW04021K00FKED		Farnell	1469662	RESC1106X84X73Y63C102N
46			R4	Resistor; 162 kO; 1 %; 63 mW; 0402	Vishay	CRCW0402162KFKED		Farnell	1469686	RESC1106X84X73Y63C102N
47		RES_XXX_10R0_1T0_W063_0603	R5	Resistor; 10 O; 1 %; 63 mW; 0603	Any Manufacturer	Any Man. Part Number		Any Supplier	Any Supp. Code	RESC1608X84X100Y80C170N
48			R6	Resistor; 24 kO; 1 %; 63 mW; 0402	Vishay	CRCW040224K0FKED		Farnell	2140882	RESC1106X84X73Y63C102N
49			R7	Resistor; 100 kO; 1 %; 500 mW; 1206	Vishay	CRCW1206100KFKEAHP		Farnell	1739039	RESC3216X84X175Y105C300N
50		RES_XXX_10R0_1T0_W063_0603	R8	Resistor; 10 O; 1 %; 63 mW; 0603	Any Manufacturer	Any Man. Part Number		Any Supplier	Any Supp. Code	RESC1608X84X100Y80C170N
51			R9	Resistor; 10 kO; 1 %; 63 mW; 0402	Vishay	CRCW040210K0FKED		Farnell	1469669	RESC1106X84X73Y63C102N
52			R10	Resistor; 330 O; 1 %; 63 mW; 0402	Vishay	CRCW0402330RFKED		Farnell	1469709	RESC1106X84X73Y63C102N
53	NM		R11	Resistor; 1 kO; 1 %; 63 mW; 0402	Vishay	CRCW04021K00FKED		Farnell	1469662	RESC1106X84X73Y63C102N
54		RES_XXX_OR00_JMP_OW25_1206	R13	Resistor; 0 O; jumper; 250 mW; 1206	Any Manufacturer	Any Man. Part Number		Any Supplier	Any Supp. Code	RESC3216X75X180Y115C300N
55		RES_YAG_2K20_1T0_OW10_0603_704	R15	Resistor; 2.2 kO; 1 %; 100 mW; 0603	Yageo	RC0603FR-072K2L		Farnell	9238522	RESC1608X55X95Y80C160N
56			R16	Resistor; 10 O; 1 %; 63 mW; 0402	Vishay	CRCW040210R0FKED		Farnell	1652742	RESC1106X84X73Y63C102N
57			R17	Resistor; 4.7 O; 1 %; 63 mW; 0402	Vishay	CRCW04024R70FKED		Farnell	1874087	RESC1106X84X73Y63C102N
58			R18	Resistor; 0.43 O; 1 %; 250 mW; 0805	Panasonic	ERJ6BQFR43V		Farnell	1892936	RESC2013X84X145Y95C200N

Design name: TEA18362T Mobile Charger Reference Design 19.5V / 45W v5  
Board-ID: TEA1836DB1200  
PCB nr.: 0000-000-32195

Bill of materials

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59			R19	Resistor; 0.43 O; 1 %; 250 mW; 0805	Panasonic	ERJ6BQFR43V		Farnell	1892936	RESC2013X84X145Y95C200N
60			R21	Resistor; 1 kO; 1 %; 63 mW; 0402	Vishay	CRCW04021K00FKED		Farnell	1469662	RESC1106X84X73Y63C102N
61			R22	Resistor; 5.6 kO; 1 %; 63 mW; 0402	Vishay	CRCW04025K60FKED		Farnell	2140812	RESC1106X84X73Y63C102N
62			R23	Resistor; 33 kO; 1 %; 63 mW; 0402	Vishay	CRCW040233K0FKED		Farnell	2140893	RESC1106X84X73Y63C102N
63		RES_XXX_150K_1T0_0W25_1206	R24	Resistor; 150 kO; 1 %; 250 mW; 1206	Any Manufacturer	Any Man. Part Number		Any Supplier	Any Supp. Code	RESC3216X84X175Y105C300N
64		RES_XXX_43K0_1T0_W063_0603	R25	Resistor; 43 kO; 1 %; 63 mW; 0603	Any Manufacturer	Any Man. Part Number		Any Supplier	Any Supp. Code	RESC1608X84X100Y80C170N
65		RES_XXX_20K0_1T0_0W25_1206	R26	Resistor; 20 kO; 1 %; 250 mW; 1206	Any Manufacturer	Any Man. Part Number		Any Supplier	Any Supp. Code	RESC3216X84X175Y105C300N
66		RES_XXX_20K0_1T0_0W25_1206	R27	Resistor; 20 kO; 1 %; 250 mW; 1206	Any Manufacturer	Any Man. Part Number		Any Supplier	Any Supp. Code	RESC3216X84X175Y105C300N
67		RES_XXX_0R00_JMP_W010_0603	R28	Resistor; 0 O; jumper; 63 mW; 0603	Any Manufacturer	Any Man. Part Number		Any Supplier	Any Supp. Code	RESC1608X55X95Y90C160N
68		RES_XXX_330R_1T0_W063_0603	R30	Resistor; 330 O; 1 %; 63 mW; 0603	Any Manufacturer	Any Man. Part Number		Any Supplier	Any Supp. Code	RESC1608X84X100Y80C170N
69		RESNTC_VIS_NTCLE100E3104J_THT	RT2	Resistor; NTC; 100 kO; 5 %; 100 mW; 4190 K	Vishay	NTCLE100E3104JB0	High against transformer and insulate pins	Farnell	1187033	VARRRV254W60L380T300H900TB_ISO
70			SG1	Sparkgap; 6.0 mm	N.L.C.	N.L.C.		N.L.C.	N.L.C.	SPARKGAP_6MM0
71			T1	Transformer; RM8; 12P	NXP	TEA1836DB1259_T1		NXP	Customer Delivers Component	TRFIC_NXP_TEA1836DB1200_THT_ISO
72			U1	Voltreg.; 2.495 V-30 V; 1 %; 150 mA	Semtech	SC431CSK-1TRT		Digikey	SC431CSK-1CT-ND	SOT95P230X110-3X100Y60C230N
73		IC_NXP_TEA1892ATS-1_TSOP6	U2	Sync. Rec. Cntrl.; TEA1892ATS	NXP	TEA1892ATS-1		NXP	Customer Delivers Component	SOT95P275X110-6X115Y50C260N
74			U3	Optocoupler; 70 V; 50 mA; CTR 130-260%	Vishay	TCLT1008		Farnell	8310742	OPTTRN_VIS_SOP4L_SMT_CLE820
75		IC_NXP_TEA18362T_SOIC8	U4	SMTP Cntr; TEA18362T	NXP	TEA18362T		NXP	Customer Delivers Component	SOIC127P600X175-8X60Y155C540N