

#	Farnell / Element14								Digi-Key			Mouser			RS Components			
	Qty	Part name	Package	Reference designator	Code	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ	Code	Part Number	Unit price €	MOQ
1	5	10n/200V	1206	C1, C2, C3, C91, C92	2812560	885342207005	0,078	5	311-4491-1-ND	0,150	10	603-C1206KRX7RAB B103	0,129	10	669-8647	CC1206KRX7R ABB103	0,128	25
2	3	2u2	1206, 50V	C10, C25, C26					1276-2723-1-ND	0,132	10	80-C1206C225M5R ECLR	0,106	10	184-3509	UMK316B7225K LHT	0,151	10
3	1	1n	0805	C11	2896470	VJ0805A102JXAC W1BC	0,044	10	732-7858-1-ND	0,055	10	710-885012007040	0,052	10	723-6408	GRM2195C1H1 02JA01D	0,031	100
4	1	15p	C0G, 0805	C12	1759270	MC0805N150J101 CT	0,068	10	1276-1163-1-ND	0,052	10	710-885012007077	0,057	10	264-4242	C0805C150J5G ACTU	0,014	25
5	3	10u	1210, 50V	C13, C14, C17	2672214	GRT31CR61H106 KE01L	0,684	5	1276-6736-1-ND	0,184	10	810-C3216X7R1HK1 60AC	0,597	10	103-4163	UMK316BBJ106 KL-T	0,236	20
6	1	EEEFK1J101P	Ø10mm, low ESR	C15	9696040	EEEFK1J101P	1,020	1	PCE3819CT-ND	0,780	1	667-EEE-FK1J101P	0,690	1	708-3623	EEEFK1J101P	0,676	5
7	7	1u	0805	C18, C53, C56, C69, C70, C79, C81	2896566	VJ0805Y105KXXT W1BC	0,084	5	587-1283-1-ND	0,090	10	603-CC805MKX7R7B B105	0,062	10	451-5770	C0805C105K4R ACTU	0,028	25
8	8	10n	0805	C19, C21, C31, C36, C49, C54, C88, C93	2896555	VJ0805Y103JXXP W1BC	0,065	10	490-7194-1-ND	0,017	10	710-885012207122	0,036	10	464-6672	08055C103KAT 2A	0,026	50
9	1	150p	C0G, 0805	C20	2497017	0805N151J500CT	0,038	10	1276-1828-1-ND	0,049	10	710-885012007058	0,051	10	147-780	C0805C151J5G ACTU	0,047	10
10	1	470p	0805	C22	1759217	MC0805N471J500 CT	0,061	10	732-7837-1-ND	0,059	10	710-885012007038	0,056	10	378-700	0805CG471J9B B	0,040	25
11	4	4u7	1206	C23, C24, C30, C66	1907356	C3216X7R1E475K 160AC	0,240	5	1276-2970-1-ND	0,199	10	963-EMK316B7475M L-T	0,129	10	691-1221	C1206C475K3R ACTU	0,232	25
12	1	330p	C0G, 0805	C28	1414686	C0805C331J5GAC TU	0,054	10	1276-1189-1-ND	0,049	10	80-C0805C331J5G	0,036	10	176-3198	0805N331J500C T	0,037	200
13	1	22u	1210, 25V	C29	2320935	MC1210X226K250 CT	1,490	1	1276-3373-1-ND	0,369	10	603-CC121KKX7R8B B226	0,777	10	766-1182	CL32A226KAJN NNE	0,343	10
14	3	33p	C0G, 0805	C32, C45, C61	1759197	MC0805N330J500 CT	0,042	10	1276-1105-1-ND	0,048	10	C0805C330K5G ACTU	0,036	10	264-4264	C0805C330J5G ACTU	0,069	25
15	2	EEEFK1H470P	Ø8mm, low ESR	C4, C16	9695931	EEEFK1H470P	0,419	1	PCE3815CT-ND	0,590	1	667-EEE-FK1H470P	0,524	1	537-0590	EEEFK1H470P	0,510	5
16	2	100p	C0G, 0805	C43, C47	2896861	C0805C101JAGAC TU	0,023	10	399-15000-1-ND	0,019	10	80-C0805C101K5G	0,032	10	461-3997	CC0805JRNP09 BN101	0,030	50
17	3	4u7/100V	1210	C5, C6, C7	2211140	CGA6M3X7S2A47 5K200AB	0,967	50	587-5034-1-ND	0,813	10	810-CGA6M3X7S2A4 75K	0,629	100	-			
18	7	4n7	C0G, 0805	C55, C74, C75, C76, C77, C84, C86	1828942	GRM2165C1H472J A01D	0,184	10	732-12255-1-ND	0,162	10	810-C2012C0G1H47 2J-1	0,072	10	741-4529	C2012C0G1H47 2J060AA	0,056	100
19	1	6n8	0805	C62	1759244	MC0805B682K500 CT	0,033	10	1276-1799-1-ND	0,052	10	80-C0805C682K5R	0,029	10	624-2531	GRM2195C1H6 82JA01D	0,196	50
20	1	4u7 tant.	1206	C68	2321209	T491A475K006AT	0,372	1	399-9717-1-ND	0,270	10	80-T491A475K006	0,265	10	538-2335	T491A475K006 AT	0,290	10
21	3	470n	0805	C7A, C9, C89	2627486	MC0805F474Z500 CT	0,187	10	1276-6482-1-ND	0,082	10	603-CC805KKX7R9B B474	0,107	10	378-700	0805CG471J9B B	0,040	25
22	32	100n	0603	C8, C27, C33, C34, C35, C37, C38, C39, C40, C41, C42, C44, C48, C50, C51, C52, C57, C58, C59, C60, C64, C65, C67, C71, C72, C73, C78, C80, C82, C83, C85, C87	2522597	C0603C104K4RAC 7081	0,011	10	490-4774-1-ND	0,029	100	80-C0603C104M4R	0,007	100	393-6952	VJ0603Y104KXJ AT	0,069	25

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	Qty	Part name	Code / Part Number	Unit price €	MOQ	THT	SMD	Best Supplier	Lowest unit price €	Order Qty	Line Cost €
1	5	10n/200V	VJ1206Y103KXCTW1 BC	0,019	100		5	TME	0,019 €	5	0,095
2	3	2u2	CL31B225KBHNNNE	0,029	50		3	TME	0,029 €	3	0,086
3	1	1n	CL21C102JBCNNNC	0,026	100		1	TME	0,026 €	1	0,026
4	1	15p	CL21C150JBANNNC	0,021	100		1	RS	0,014 €	1	0,014
5	3	10u	CL31A106KBHNNNE	0,546	10		3	Digikey	0,184 €	3	0,552
6	1	EEEFK1J101P	EEEFK1J101P	0,321	5		1	TME	0,321 €	1	0,321
7	7	1u	CL21B105KOFNNNE	0,010	100		7	TME	0,010 €	7	0,073
8	8	10n	CC0805KRX7R9103	0,027	100		8	Digikey	0,017 €	8	0,136
9	1	150p	CC0805JRNPO9BN15 1	0,025	100		1	TME	0,025 €	1	0,025
10	1	470p	CC0805JRNPO9BN47 1	0,024	100		1	TME	0,024 €	1	0,024
11	4	4u7	GCM31CR71E475KA5 5L	0,381	10		4	Mouser	0,129 €	4	0,516
12	1	330p	CL21C331JBANNNC	0,029	100		1	TME	0,029 €	1	0,029
13	1	22u	CL32A226KAJNNNE	0,158	10		1	TME	0,158 €	1	0,158
14	3	33p	CL21C330JBANNNC	0,015	100		3	TME	0,015 €	3	0,045
15	2	EEEFK1H470P	EEEFK1H470P	0,183	5		2	TME	0,183 €	2	0,366
16	2	100p	CL21C101JBANNNC	0,026	100		2	Digikey	0,019 €	2	0,038
17	3	4u7/100V	-				3	Mouser	0,629 €	3	1,887
18	7	4n7	GRM2165C1H472JA0 1D	0,021	100		7	TME	0,021 €	7	0,147
19	1	6n8	CL21B682KBANNNC	0,327	100		1	Mouser	0,029 €	1	0,029
20	1	4u7 tant.	T491A475K006AT	0,099	10		1	TME	0,099 €	1	0,099
21	3	470n	CL21B474KBFNNNE	0,027	100		3	TME	0,027 €	3	0,080
22	32	100n	CL10B104KA8NNNC	0,098	100		32	Mouser	0,007 €	32	0,224

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23	1	HHXC630A330MHA0	Ø8mm, low ESR	C90	-				-			661-HHXC630A330MHA0G	0,891	1	-			
24	10	BAS316	SOD-323	D1, D3, D10, D11, D12, D13, D15, D17, D18, D19	8734275	BAS316,115	0,193	5	1727-7370-1-ND	0,120	1	771-BAS316-T/R	0,179	1	397-2914	BAS316,115	0,122	50
25	1	SK55	SMB	D14	3127440	SBRT5A50SA-13	0,355	1	SK56A-LTPMSCT-ND	0,420	1	833-SK56A-LTP	0,489	1	743-5961	SK56B R4	0,443	10
26	3	SKL16	SOD-123	D2, D4, D5	2673070	RB160MM-60TR	0,282	5	RB160MM-60CT-ND	0,264	10	755-RB160MM-60TR	0,233	10	124-6774	RB160MM-60TR	0,230	40
27	3	SKL14	SOD-123	D6, D7, D9	2760412	PMEG4010EGWX	0,204	5	1727-7335-1-ND	0,243	10	841-PMEG4010EGWX	0,188	10	153-0632	PMEG4010EGWX	0,078	100
28	2	ZH32	THT; 20x5mm fuse holder	F1, F2	-				-			-			-			
29	3	BLM18AG102SH1D	0603	FB1, FB2, FB3	1515671	BLM18AG102SN1D	0,053	10	490-7809-1-ND	0,081	10	81-BLM18AG102SH1D	0,063	10	839-0803	BLM18AG102SH1D	0,043	100
30	1	LM5145RGYT	VQFN-20	IC1	3008669	LM5145RGYT	6,410	1	296-47121-1-ND	2,910	1	595-LM5145RGYT	2,890	1	-			
31	1	LTC2050HVCS8#PBF	SOIC-8	IC11	-				LTC2050HVCS8#PBF-ND	2,760	1	584-LTC2050HVCS8#PBF	2,710	1	822-6746	LTC2050HVCS8#PBF	2,155	2
32	2	SN74LVC1G3157DCKR	SC-70	IC12, IC18	1470911	SN74LVC1G3157DCKR	0,274	5	296-14909-1-ND	0,330	1	595-SN74LVC1G3157DCK	0,323	1	628-2769	SN74LVC1G3157DCKR	0,237	10
33	1	74AUP1G74DC.125	VSSOP-8	IC13	2445023	74AUP1G74DC,125	0,369	1	1727-6029-1-ND	0,430	1	771-AUP1GDC125	0,419	1	813-9254	74AUP1G74DC,125	0,408	20
34	1	MCP23S17-E/SS	SSOP-28	IC14	1467675	MCP23S17-E/SS	1,160	1	MCP23S17-E/SS-ND	1,210	1	579-MCP23S17-E/SS	1,180	1	669-6452	MCP23S17-E/SS	1,188	5
35	1	REF5025AIDR	SOIC-8	IC15	1439622	REF5025AIDG4	3,440	1	296-39165-1-ND	2,660	1	595-REF5025AIDR	2,540	1	404-304	REF5025AID	3,030	1
36	1	TC77-5.0MCTTR	SOT23-5	IC16	-				TC77-5.0MCTTRCT-ND	0,890	1	579-TC77-5.0MCTTR	0,882	1	768-1549	TC77-5.0MCTTR	0,514	5
37	1	DAC8552IDGKR	VSSOP-8	IC17	-				296-46082-1-ND	6,430	1	595-DAC8552IDGKR	6,150	1	-			
38	1	ADS1120IPWR	TSSOP-16	IC19	-				296-37280-1-ND	6,030	1	595-ADS1120IPWR	5,760	1	-			
39	1	TPS54060DGQ	MSOP-10	IC2	1710820	TPS54060DGQ	3,030	1	296-37148-1-ND	2,630	1	TPS54060ADGQR	2,570	1	698-9079	TPS54060DGQ	2,680	1
40	1	LM293D	SOIC-8	IC20	2382616	LM293DT	0,289	5	296-12848-1-ND	0,340	1	511-LM293DT	0,255	10	661-2592	LM293ADR	0,273	10
41	1	MAX9141ESA	SOIC-8	IC21	2515004	MAX9141ESA+	1,230	1	MAX9141ESA+-ND	1,090	1	700-MAX9141ESA	0,934	1	799-8282	MAX9141ESA+	1,360	5
42	2	SI8641BB-B-IS1	SOIC-16	IC3, IC7	2423291	SI8641BB-B-IS1	2,140	1	336-2566-ND	2,230	1	634-SI8641BB-B-IS1	2,060	1	823-2126	SI8641BB-B-IS1	2,190	5
43	1	SN74LVC1G139DCUR	VSSOP-8	IC4	2147991	SN74LVC1G139DCUR	0,561	1	296-18203-1-ND	0,510	1	595-SN74LVC1G139DCUR	0,489	1	-			
44	1	MC78L05	SOIC-8	IC5	2534293	MC78L05ABDR2G	0,324	1	MC78L05ACDR2GOSCT-ND	0,420	1	863-MC78L05ACDR2G	0,306	1	516-6149	MC78L05ACDG	0,150	1
45	1	MC79L05	SOIC-8	IC6	2534292	MC79L05ACDR2G	0,310	1	MC79L05ABDGOS-ND	0,350	1	863-MC79L05ACDR2G	0,358	1	688-9313	MC79L05ACDR2G	0,110	1
46	1	M24C32-WMN6P	SOIC-8	IC8	1224413	M24C32-WMN6P	0,212	5	497-8644-1-ND	0,210	1	511-M24C32-RMN6TP	0,210	1	686-2453	M24C32-WMN6P	0,180	25
47	2	TL072D	SOIC-8	IC9, IC10	1467663	TL072CDT	0,358	5	296-1282-1-ND	0,420	1	595-TL072CDR	0,369	1	714-1082	TL072CD	0,071	20
48	1	4907	THT, PCB terminal; 4.8mm	J1	-				36-4907-ND	0,260	1	534-4907	0,257	1	-			
49	1	FCR7350R or BSM-420-R	THT, binding post 4 mm; red	J2	1854508	FCR7350R	6,170	1	-			-			144-1450	SWEB 8094 Au / RT	4,640	1

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23	1	HHXC630A330MHA0	-				1	Mouser	0,891 €	1	0,891
24	10	BAS316	BAS316,115	0,026	25		10	TME	0,026 €	10	0,265
25	1	SK55	SK55-DIO	0,119	5		1	TME	0,119 €	1	0,119
26	3	SKL16	SKL16-DIO	0,105	5		3	TME	0,105 €	3	0,315
27	3	SKL14	SKL14-DIO	0,053	10		3	TME	0,053 €	3	0,158
28	2	ZH32	ZH32	0,228	5	2		TME	0,228 €	2	0,456
29	3	BLM18AG102SH1D	BLM18AG102SH1D	0,016	50		3	TME	0,016 €	3	0,047
30	1	LM5145RGYT	-				1	Mouser	2,890 €	1	2,890
31	1	LTC2050HVCS8#PBF	-				1	RS	2,155 €	1	2,155
32	2	SN74LVC1G3157DCKR	SN74LVC1G3157DCKR	0,107	5		2	TME	0,107 €	2	0,213
33	1	74AUP1G74DC.125	74AUP1G74DC.125	0,323	3		1	TME	0,323 €	1	0,323
34	1	MCP23S17-E/SS	MCP23S17-E/SS	1,230	1		1	Farnell	1,160 €	1	1,160
35	1	REF5025AIDR	-				1	Mouser	2,540 €	1	2,540
36	1	TC77-5.0MCTTR	TC77-5.0MCTTR	0,970	1		1	RS	0,514 €	1	0,514
37	1	DAC8552IDGKR	-				1	Mouser	6,150 €	1	6,150
38	1	ADS1120IPWR	-				1	Mouser	5,760 €	1	5,760
39	1	TPS54060DGQ	-				1	Mouser	2,570 €	1	2,570
40	1	LM293D	LM293D-ST	0,143	5		1	TME	0,143 €	1	0,143
41	1	MAX9141ESA	-				1	Mouser	0,934 €	1	0,934
42	2	SI8641BB-B-IS1	-				2	Mouser	2,060 €	2	4,120
43	1	SN74LVC1G139DCUR	-				1	Mouser	0,489 €	1	0,489
44	1	MC78L05	MC78L05ACDG	0,228	3		1	RS	0,150 €	1	0,150
45	1	MC79L05	MC79L05ACDG	0,232	3		1	RS	0,110 €	1	0,110
46	1	M24C32-WMN6P	M24C32-WMN6P	0,165	3		1	TME	0,165 €	1	0,165
47	2	TL072D	TL072CD-ST	0,240	3		2	RS	0,071 €	2	0,142
48	1	4907	61-1537-11/0031	0,049	10	1		TME	0,049 €	1	0,049
49	1	FCR7350R or BSM-420-R	BSM-420-R	1,426	1	1		TME	1,426 €	1	1,426

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50	1	FCR7350B or BSM-420-B	THT, binding post 4 mm; black J3		1854507	FCR7350B	5,750	1	-			-			144-1451	SWEB 8094 Au / SW	4,640	1
51	1	FTR-C1GA005G-B05	Miniature relay, non-latching	K1	-				-			817-FTR-C1GA005GB05	2,440	1	195-8095	FTR-C1GA005G	3,740	1
52	1	RN112-4-02-0M7	THT; RN112	L1					817-2100-ND	1,560	1	631-RN112-4-02-0M7	1,400	1	-			
53	1	ETQ-P4M100KFM	Power inductor	L2	2965285	ETQP4M100KFM	1,000	1	P124167CT-ND	1,070	1	667-ETQ-P4M100KFM	1,010	1	-			
54	1	HPI0630-3R3	Power inductor	L3	1741325	IHLP2020CZER3R3M11	1,940	5	445-180834-1-ND	0,510	1	810-VLS6045AF-3R3N	0,510	1	-			
55	1	WP42WUM/EGW	THT, dual (green/red) 3 mm LED	LED1	-				754-1718-ND	0,930	1	604-WP42WUM/EGW	0,926	1	-			
56	1	WP934MD/2LID	THT, dual (red/red) 3 mm LED	LED2	-				754-2000-ND	0,920	1	604-WP934MD2LID	1,030	1	-			
57	1	WP934MD/LYLID	THT, dual (yellow/red) 3 mm LED	LED3	-				754-2008-ND	0,990	1	604-WP934MDLYLID	0,795	1	-			
58	1	BSC117N08NS5ATMA1	PG-TDSON-8	Q1	2725815	BSC117N08NS5ATMA1	1,130	1	BSC117N08NS5ATMA1CT-ND	1,040	1	726-BSC117N08NS5ATMA	1,150	1	-			
59	5	2N7002	SOT-23	Q10, Q16, Q18, Q21, Q25	1713825	2N7002K-7	0,148	5	T2N7002AKLMCT-ND	0,126	10	757-T2N7002AKLM	0,113	10	671-0312	2N7002	1,250	20
60	1	BSS205NH6327XTSA1	SOT-23	Q11	2480648	BSS205NH6327XTSA1	0,257	5	BSS205NH6327XTSA1CT-ND	0,274	10	BSS205NH6327XTSA1	0,236	10	892-2374	BSS205NH6327XTSA1	0,108	100
61	2	PSMN0R9-25YLC	SOT-669	Q12, Q13	1895396	PSMN0R9-25YLC,115	1,300	5	1727-5292-1-ND	1,270	1	771-PSMN0R925YLC115	1,320	1	798-2895	PSMN0R9-25YLC,115	1,537	3
62	1	BSS84P	SOT-23	Q14	1056526	BSS84PH6327XTSA2	0,224	5	BSS84PH6433XTMA1CT-ND	0,314	10	726-BSS84PH6327XTSA2	0,196	10	-			
63	1	BT139B-600E	D2PAK	Q15	2902357	BT139B-600,118	1,040	1	1740-1053-1-ND	0,820	1	771-BT139B-600E118	0,855	1	509-522	BT139B-600,118	0,908	1
64	1	FMMT493TA	SOT-23	Q17	2061448	FMMT493ATA	0,348	5	FMMT493CT-ND	0,420	1	522-FMMT493TA	0,376	1	274-885	FMMT493TA	0,302	10
65	1	PSMN013-60YL	SOT-669	Q19	2617064	PSMN013-60YLY	0,706	1	1727-2589-1-ND	0,600	1	771-PSMN013-60YLY	0,576	1	-			
66	1	BSC039N06NSATMA1	PG-TDSON-8	Q2	2480737	BSC039N06NSATMA1	1,750	1	BSC039N06NSATMA1CT-ND	1,450	1	726-BSC039N06NSATMA1	1,430	1	906-4292	BSC039N06NSATMA1	1,326	10
67	3	MMBT5551	SOT-23	Q20, Q23, Q24	1459109	MMBT5551LT1G	0,154	5	MMBT5551LT1GOSCT-ND	0,180	1	863-MMBT5551LT1G	0,170	1	545-0400	MMBT5551LT1G	0,146	10
68	3	MMBT5401	SOT-23	Q3, Q8, Q22	2533333	MMBT5401LT3G	0,181	5	MMBT5401-FDICT-ND	0,154	10	621-MMBT5401-F	0,135	10	739-0546	MMBT5401	0,157	10
69	2	D45H11FP	THT, TO-220FP	Q4, Q5	-				497-12486-5-ND	1,110	1	511-D45H11FP	1,090	1	-			
70	1	FQPF11P06	THT, TO-220FP	Q6	-				FQPF11P06FS-ND	0,920	1	512-FQPF11P06	0,873	1	807-5885	FQPF11P06	0,715	10
71	1	BCP56	SOT-223	Q7	2628083	BCP56TX	0,263	5	BCP5616QTADICT-ND	0,350	1	621-BCP5616QTA	0,297	1	773-7633	BCP56-16T3G	0,138	10
72	1	NZT605	SOT-223	Q9	2825127	NZT605	0,334	5	NZT605CT-ND	0,380	1	512-NZT605	0,341	1	806-1268	NZT605	0,284	25
73	1	11K	0805	R10	2447559	MCWR08X1102FTL	0,008	10	A126334CT-ND	0,045	10	652-CR0805FX-1102ELF	0,014	10	679-0831	CRCW080511K0FKEA	0,038	50
74	2	750R	0805	R106, R111	2447719	MCWR08X7500FTL	0,010	10	A126385CT-ND	0,046	10	71-CRCW0805750RFKEB	0,052	10	215-2298	RN73C2A750RB	0,666	5
75	1	3K3	0805	R107	2447651	MCWR08X3301FTL	0,008	10	A129755CT-ND	0,048	10	652-CR0805FX-3301ELF	0,014	10	223-0499	CRG0805F3K3	0,027	50
76	1	3K9	0805	R11	2447654	MCWR08X3901FTL	0,008	10	A126369CT-ND	0,045	10	279-CRGP0805F3K9	0,140	10	679-1377	CRCW08053K90FKEA	0,004	50

#	TME					THT		SMD		Price calculation for 1 set			
	Qty	Part name	Code / Part Number	Unit price €	MOQ					Best Supplier	Lowest unit price €	Order Qty	Line Cost €
50	1	FCR7350B or BSM-420-B	BSM-420-B	1,860	1	1		TME	1,860 €	1	1,860		
51	1	FTR-C1GA005G-B05	FTR-C1GA005G-B05	1,370	1		1	TME	1,370 €	1	1,370		
52	1	RN112-4-02-0M7	-			1		Mouser	1,400 €	1	1,400		
53	1	ETQ-P4M100KFM					1	Farnell	1,000 €	1	1,000		
54	1	HPI0630-3R3	HPI0630-3R3	0,335	1		1	TME	0,335 €	1	0,335		
55	1	WP42WUM/EGW	L-42WUM/1EGWT	0,501	1	1		TME	0,501 €	1	0,501		
56	1	WP934MD/2LID	-			1		Digikey	0,920 €	1	0,920		
57	1	WP934MD/LYLID	-			1		Mouser	0,795 €	1	0,795		
58	1	BSC117N08NS5ATMA1	BSC117N08NS5ATMA1	0,728	5		1	TME	0,728 €	1	0,728		
59	5	2N7002	2N7002LT1G	0,019	25		5	TME	0,019 €	5	0,096		
60	1	BSS205NH6327XTSA1	BSS205NH6327XTSA1	0,097	10		1	TME	0,097 €	1	0,097		
61	2	PSMN0R9-25YLC	PSMN0R9-25YLC.115	0,709	2		2	TME	0,709 €	2	1,418		
62	1	BSS84P	BSS84P	0,060	10		1	TME	0,060 €	1	0,060		
63	1	BT139B-600E	BT139B-600E.118	0,700	1		1	TME	0,700 €	1	0,700		
64	1	FMMT493TA	FMMT493TA	0,125	10		1	TME	0,125 €	1	0,125		
65	1	PSMN013-60YL	-				1	Mouser	0,576 €	1	0,576		
66	1	BSC039N06NSATMA1	BSC039N06NS	0,740	5		1	TME	0,740 €	1	0,740		
67	3	MMBT5551	MMBT5551	0,024	25		3	TME	0,024 €	3	0,073		
68	3	MMBT5401	MMBT5401	0,024	25		3	TME	0,024 €	3	0,071		
69	2	D45H11FP	-			2		Mouser	1,090 €	2	2,180		
70	1	FQPF11P06	-			1		RS	0,715 €	1	0,715		
71	1	BCP56	BCP56-16T1G	0,153	5		1	RS	0,138 €	1	0,138		
72	1	NZT605	NZT605	0,222	5		1	TME	0,222 €	1	0,222		
73	1	11K	0805S8F1102T5E	0,015	100		1	Farnell	0,008 €	1	0,008		
74	2	750R	0805S8F7500T5E	0,015	100		2	Farnell	0,010 €	2	0,019		
75	1	3K3	0805S8F3301T5E	0,015	100		1	Farnell	0,008 €	1	0,008		
76	1	3K9	SMD0805-3K9-1%	0,015	100		1	RS	0,004 €	1	0,004		

#	Farnell / Element14									Digi-Key			Mouser			RS Components			
	Qty	Part name	Package	Reference designator	Code	Part Number	Unit price €	MOQ		Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ	Code	Part Number	Unit price €	MOQ
77	11	2K2	0805	R16, R32, R40, R45, R56, R57, R74, R77, R78, R80, R81	9237534	RC0805FR-072K2L	0,037	10		311-2.20KCRCT-ND	0,039	10	603-RC0805FR-072K2L	0,026	10	679-1207	CRCW08052K20FKEA	0,039	50
78	2	86K6	0805	R18, R20	2303750RL	ERJ6ENF8662V	0,058	10		311-86.6KCRCT-ND	0,036	10	603-RT0805FRE0786K6L	0,056	10	-			
79	1	330K	0805	R19	2447637	MCWR08X3303FTL	0,010	10		A126361CT-ND	0,046	10	652-CR0805FX-3303ELF	0,013	10	679-1272	CRCW0805330KFKEA	0,038	50
80	2	15R/0.75W	2010	R2, R50	2862025	CRGCQ2010J15R	0,076	10		A129910CT-ND	0,196	10	603-RC2010FK-0715RL	0,166	10	123-4428	RK73HW2HTTE15R0F	0,061	50
81	2	8K2	0805	R21, R63	2447732	MCWR08X8201FTL	0,008	10		311-8.20KCRCT-ND	0,040	10	652-CR0805FX-8201ELF	0,014	10	223-0556	CRG0805F8K2	0,021	10
82	2	0R1/2-3W	2512	R25, R29	2828391	MCLRP12JTWSR100	0,240	10		696-1680-1-ND	0,465	10	71-RCWE2512R100FKEA	0,418	10	693-4394	CRA2512-FZ-R100ELF	0,644	5
83	1	2R2/2-3W	2512	R26	1265193	35202R2JT	0,143	10		CRM2512-JW-2R2ELFCT-ND	0,342	10	279-35222R2JT	0,296	10	871-1023	35222R2JT	0,449	10
84	9	4K7	0805	R27, R28, R30, R35, R84, R86, R96, R100, R102	2861530	CRGCQ0805F4K7	0,012	10		311-4.70KCRCT-ND	0,040	10	603-RC0805FR-074K7L	0,027	10	223-0528	CRG0805F4K7	0,023	50
85	21	10K	0805	R3, R6, R7, R17, R22, R23, R24, R31, R41, R44, R52, R53, R71, R83, R85, R92, R93, R95, R99, R108, R109	9237755	RC0805FR-0710KL	0,022	10		311-10.0KCRCT-ND	0,039	10	603-RC0805FR-0710KL	0,014	10	125-1189	CRG0805F10K	0,002	100
86	8	1K	0805	R36, R43, R69, R70, R89, R90, R94, R101	1099800	WCR0805-1K0FI	0,019	10		RC0805FR-071KL	0,039	10	603-RC0805FR-071KL	0,015	10	223-0427	CRG0805F1K0	0,017	50
87	3	220R	0805	R37, R38, R54	1099795	WCR0805-220RFI	0,019	10		RMCF0805FT220RCT-ND	0,020	10	603-RC0805FR-13220RL	0,020	10	223-0332	CRG0805F220R	0,018	50
88	5	22K	0805	R39, R46, R62, R103, R104	2447607	MCWR08X2202FTL	0,010	10		RMCF0805FT22K0CT-ND	0,024	10	71-CRCW080522K0FKEAC	0,018	100	679-1109	CRCW080522K0FKEA	0,034	50
89	6	470R	0805	R4, R64, R75, R76, R79, R114	1099798	WCR0805-470RFI	0,019	10		311-470CRCT-ND	0,039	10	71-CRCW0805470RFKEB	0,041	10	223-0376	CRG0805F470R	0,021	50
90	2	7K5 0.1%	0805	R42, R49	1575887	MCTC0525B7501T5E	0,203	10		YAG1974CT-ND	0,265	10	279-CPF0805B7K5E	0,249	10	-			
91	2	124K 0.1%	0805	R47, R48	2670132	WF08U1243BTL	0,025	10		P124KDACT-ND	0,269	10	667-ERJ-PB6B1243V	0,160	10	123-1601	CPF0805B124KE1	0,223	10
92	7	10R	1206	R5, R12, R14, R15, R33, R34, R82	9236643	RC1206FR-0710RL	0,050	10		311-10.0CRCT-ND	0,071	10	603-RC1206FR-0710RL	0,034	10	740-9085	CR1206-FX-10R0ELF	0,036	50
93	2	39K 0.1%	0805	R58, R65	2337828	MCWF08R3902BTL	0,276	10		P20774CT-ND	0,268	10	279-CPF0805B39KE	0,122	10	866-7418	CPF-A-0805B39KE1	0,343	10
94	2	820R 0.1%	0805	R59, R68	2338010	MCWF08R8200BTL	0,276	10		YAG1979CT-ND	0,262	10	603-RT0805BRD07820RL	0,196	10	866-7484	CPF-A-0805B820RE1	0,265	10
95	2	1R	1206	R61, R110	2447479	MCWR12W1R00FTL	0,017	10		RNCP1206FTD1R00	0,093	10	756-GWCR1206-1R0FT5	0,022	25	794-4180	CRL1206-FW-1R00ELF	0,054	10
96	1	0R010	2512, low TCR	R67	2808330	GMR100HTBFA10L0	1,130	5		511-1686-1-ND	1,350	1	755-GMR100HTBFA10L0	1,080	1	-			
97	1	270R	0805	R73	2073716	MCMR08X271 JTL	0,009	10		RMCF0805FT270RCT-ND	0,025	10	652-CR0805FX-2700ELF	0,013	10	223-0348	CRG0805F270R	0,025	50
98	5	100K	0805	R8, R55, R72, R97, R115	2447551	MCWR08X1003FTL	0,010	10		RMCF0805FT100KCT-ND	0,024	10	71-CRCW0805100KFKEAC	0,040	10	223-0691	CRG0805F100K	0,028	50
99	5	330R	0805	R87, R88, R91, R105, R113	2695037	MCWR08X331 JTL	0,009	10		A129743CT-ND	0,045	10	652-CR0805FX-3300ELF	0,013	10	223-0354	CRG0805F330R	0,040	50
100	5	47K	0805	R9, R13, R60, R66, R112	2447664	MCWR08X4702FTL	0,009	10		RHM47KKCT-ND	0,036	10	603-RC0805FR-0747KL	0,014	10	679-1434	CRCW080547K0FKEA	0,036	50
101	1	6R2	0805	R98	2447714	MCWR08W6R20FTL	0,012	10		311-6.20CRCT-ND	0,070	10	603-RC0805FR-076R2L	0,020	10	-			

#	TME					Price calculation for 1 set					
	Qty	Part name	Code / Part Number	Unit price €	MOQ	THT	SMD	Best Supplier	Lowest unit price €	Order Qty	Line Cost €
77	11	2K2	0805S8F2201T5E	0,022	100		11	TME	0,022 €	11	0,246
78	2	86K6	CRCW080586K6FKTA BC	0,025	100		2	TME	0,025 €	2	0,050
79	1	330K	0805S8F3303T5E	0,015	100		1	Farnell	0,010 €	1	0,010
80	2	15R/0.75W	201007J0150T4E	0,025	100		2	TME	0,025 €	2	0,049
81	2	8K2	0805S8J0822T5E	0,013	100		2	Farnell	0,008 €	2	0,016
82	2	0R1/2-3W	LRP12FTDRR100	0,155	10		2	TME	0,155 €	2	0,310
83	1	2R2/2-3W	WF25P2R2JTL	0,043	50		1	TME	0,043 €	1	0,043
84	9	4K7	0805S8F4701T5E	0,023	100		9	Farnell	0,012 €	9	0,105
85	21	10K	RC0805FR-0710K	0,022	100		21	RS	0,002 €	21	0,042
86	8	1K	RC0805FR-071K	0,022	100		8	Mouser	0,015 €	8	0,120
87	3	220R	0805S8F2200T5E	0,022	100		3	RS	0,018 €	3	0,054
88	5	22K	0805S8J0223T5E	0,013	100		5	Farnell	0,010 €	5	0,049
89	6	470R	RC0805FR-07470R	0,022	100		6	Farnell	0,019 €	6	0,113
90	2	7K5 0.1%	AR05BTCW7501	0,105	10		2	TME	0,105 €	2	0,210
91	2	124K 0.1%	ERA6AEB1243V	0,090	10		2	Farnell	0,025 €	2	0,050
92	7	10R	1206S4J0100T5E	0,012	100		7	TME	0,012 €	7	0,087
93	2	39K 0.1%	AR05BTCW3902	0,105	10		2	TME	0,105 €	2	0,211
94	2	820R 0.1%	AR05BTCW8200	0,105	10		2	TME	0,105 €	2	0,211
95	2	1R	CQ06S4J010JT5E	0,012	100		2	TME	0,012 €	2	0,023
96	1	0R010	-				1	Mouser	1,080 €	1	1,080
97	1	270R	0805S8F2700T5E	0,023	100		1	Farnell	0,009 €	1	0,009
98	5	100K	0805S8F1003T5E	0,015	100		5	Farnell	0,010 €	5	0,049
99	5	330R	0805S8F3300T5E	0,015	100		5	Farnell	0,009 €	5	0,047
100	5	47K	RC0805FR-0747K	0,022	100		5	Farnell	0,009 €	5	0,047
101	1	6R2	RC0805JR-076R2	0,034	100		1	Farnell	0,012 €	1	0,012

#	Farnell / Element14								Digi-Key			Mouser			RS Components			
	Qty	Part name	Package	Reference designator	Code	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ	Code	Part Number	Unit price €	MOQ
102	3	DR1206-33R-4/8	1206 resistor array	RN1, RN2, RN3	1770128	CAY16-330J4LF	0,069	10	CAY16-330J4LFCT-ND	0,090	1	652-CAY16-330J4LF	0,085	1	522-5670	CAY16-330J4LF	0,004	50
103	1	SRF0703-821M	0703	TR1	1852832	SRF0703-821M	0,827	1	SRF0703-821MCT-ND	0,900	1	652-SRF0703-821M	0,681	1	-			
104	1	39-30-1020	THT, Minifit Jr. 2-pin, right angle	X1	9963367	39-30-1020	0,408	10	WM1351-ND	0,510	1	538-39-30-1020	0,498	1	510-9837	39-30-1020	0,352	5
105	1	77317-104-20LF	THT, 20-pin 0.1" header right angled	X2	-				S2111EC-10-ND	0,820	1	649-77317-104-20LF	1,220	1	-			
106	1	691322110005	THT; Pluggable Terminal Blocks; 3.5mm; 5-pin	X3	2493680	CTB932HD/5	0,373	10	732-2772-ND	1,010	1	710-691322110005	1,000	1	824-6642	691322110005	0,960	1
107	1	DS1024-2*10R0	THT, 20-pin 0.1" receptacle right angled	X4	1668376	SSW-110-02-G-D-RA	2,640	1	SAM10030-ND	1,770	1	200-SSW11002TDRA	1,750	1	180-0986	SSW-110-02-T-D-RA	2,100	1
108	2	SMAJ51A	SMA	ZD1, ZD5	2677667	SMAJ51A	0,144	5	SMAJ51ALFCT-ND	0,370	1	652-SMAJ51A	0,463	1	171-4238	SMAJ51A	0,320	25
109	1	MM3Z9V1T1G	SOD-323	ZD2	2463517	MM3Z9V1T1G	0,124	5	MM3Z9V1T1GO SCT-ND	0,120	1	863-MM3Z9V1T1G	0,108	10	802-4653	MM3Z9V1T1G	0,039	200
110	1	SLVU2.8-TP	TVS, SOT-23	ZD3	2749173	SLVU2.8HTG	0,929	5	SLVU2.8-TPMSCT-ND	0,690	1	833-SLVU2.8-TP	0,664	1	793-1942	SLVU2.8HTG	1,000	5
111	1	MMSZ5230BT1G	SOD-123	ZD4	1431272	MMSZ5230BT1G	0,177	10	MMSZ5230BT1G OSCT-ND	0,148	10	863-MMSZ5230BT1G	0,170	10	545-3033	MMSZ5230BT1G	0,173	20

Not installed																		
1	N.C.	0805	C46															
1	N.C.	SOD-323	D16															
1	N.C.	SOD-123	D8															
1	N.C.	2512	R1	2081875	ASC2512-4K7FT4	0,195	10	A130729CT-ND	0,331	10	279-CRGP2512F4K7	0,180	10	224-0424	35204K7JT	1,370	10	
1	N.C.	0805	R51															

Related parts and accessories																		
2	PMB-1	PCB bracket; polyamide	KK1, KK2	-					-			-						
1	SK96/84/SA	Heatsink 84 x 55 x 28 mm	KK3	-					-			-						
2	B3X5/BN661	Screw; M3x5; countersunk; Phillips; A2 stainless steel																
2	M3X5/D7985	Screw; M3x5; cheese head; Phillips for PCB brackets		-					-			-						
5	M3X8/D7985B	Screw; M3x8; cheese head; black; Phillips for heatsink and TO-220 parts		-					-			-						
3	B3/BN789	Washer; externally serrated; M3; D=6mm; h=0.4mm		-					-			-						
2	179020.5	20 x 5 mm, 5A fuse; quick blow																
1	LRS-150F-48	Mean Well 48 Vdc power module		2815982	LRS-150F-48	21,150	1	1866-3328-ND	23,460	1	709-LRS150F-48	23,330	1	106-5854	LRS-150F-48	21,730	1	
1	TBC-07	Terminal cover for Mean Well power module		-					1866-4907-ND	0,260	1	709-TBC-07	0,292	1	-			

Custom made components																		
1	PCB	4-layer 180 x 95 mm, 1 oz. Cu thickness (MOQ: 5, incl. S&H)																

All prices are net prices (without VAT)

Please note that BOM does not contain ordering number for parts on reels or that which includes re-reeling fee (e.g. Farnell). Take also into account that total cost is higher because min. quantity (MOQ) for many parts is larger then what is needed for single unit.

#	TME					Price calculation for 1 set					
	Qty	Part name	Code / Part Number	Unit price €	MOQ	THT	SMD	Best Supplier	Lowest unit price €	Order Qty	Line Cost €
102	3	DR1206-33R-4/8	DR1206-33R-4/8	0,009	100		3	RS	0,004 €	3	0,012
103	1	SRF0703-821M	-				1	Mouser	0,681 €	1	0,681
104	1	39-30-1020	MX-39-30-1020	0,339	5	1		TME	0,339 €	1	0,339
105	1	77317-104-20LF	ZL212-20KG	0,140	5	1		TME	0,140 €	1	0,140
106	1	691322110005	-			1		Farnell	0,373 €	1	0,373
107	1	DS1024-2*10R0	ZL263-20DG	0,335	2	1		TME	0,335 €	1	0,335
108	2	SMAJ51A	SMAJ51A-LF	0,201	3		2	Farnell	0,144 €	2	0,288
109	1	MM3Z9V1T1G	MM3Z9V1T1G	0,020	25		1	TME	0,020 €	1	0,020
110	1	SLVU2.8-TP	-				1	Mouser	0,664 €	1	0,664
111	1	MMSZ5230BT1G	MMSZ5230BT1G	0,033	25		1	TME	0,033 €	1	0,033
						16	275				61,41 €

Not installed											
1	N.C.						1	Farnell	0,000 €	1	0,000
1	N.C.						1	Farnell	0,000 €	1	0,000
1	N.C.							Farnell	0,000 €	1	0,000
1	N.C.	CRCW25124K70FKTH BC		0,113	10		1	TME	0,113 €	1	0,113
1	N.C.							Farnell	0,000 €	1	0,000

Related parts and acces:											
2	PMB-1	PMB-1		0,072	10			TME	0,072 €	2	0,145
1	SK96/84/SA	SK96/84SA		2,360	1			TME	2,360 €	1	2,360
2	B3X5/BN661	B3X5/BN661		0,015	100			TME	0,015 €	2	0,029
2	M3X5/D7985	M3X5/D7985		0,012	100			TME	0,012 €	2	0,024
5	M3X8/D7985B	M3X8/D7985B		0,018	100			TME	0,018 €	5	0,089
3	B3/BN789	B3/BN789		0,010	100			TME	0,010 €	3	0,030
2	179020.5	179020.5		0,143	5			TME	0,143 €	2	0,286
1	LRS-150F-48	LRS-150F-48		15,650	1			TME	15,650 €	1	15,650
1	TBC-07	TBC-07		0,260	1			Digikey	0,260 €	1	0,260
											18,87 €

Custom made componei											
1	PCB							JLCPCB	10,942 €	1	10,942
											10,94 €

Total 91,23 €

#	Qty	Part name	Package	Reference designator	Code	Farnell / Element14			Digi-Key			Mouser			RS Components			
						Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ	Part Number	Unit price €	MOQ	Code	Part Number	Unit price €	MOQ

All resistors are 1% 0805 and all capacitors are X7R 0805 if not otherwise specified.

#	TME					Price calculation for 1 set					
	Qty	Part name	Code / Part Number	Unit price €	MOQ	THT	SMD	Best Supplier	Lowest unit price €	Order Qty	Line Cost €