





Comment	Description	Designator	Footprint	LibRef	Quantity
·	General Purpose Metallized Polyester				
R60DF4220506AJ	Film Capacitor, 2.2 uF, 40 VAC, 63 VDC, 5 %	C1, C10	10mm lead spacing CAP	R60DF4220506AJ	2
	SMD Multilayer Ceramic Capacitor, 0805 [2012				
VJ0805Y104JXATW1BC	Metric], 0.1 μF, 50 V, ± 5%, X7R, VJ Series	C2, C11	0805	VJ0805Y104JXATW1BC	2
	Aluminum Electrolytic Capacitors, 470uF, Low		5mm lead spacing		
EEU-FR1V471	ESR	C3, C12 C4, C5, C6, C14, C15,	ELCAP	EEU-FR1V471	2
100nF	Capacitor	C30, C46	FP_0805_CAP_085	CAP 100nF	7
	SMD Multilayer Ceramic Capacitor, 0805 [2012				
VJ0805Y105KXQTW1BC	Metric], 1 μF, 10 V, ± 10%, X7R, VJ Series	C7, C13, C24, C28, C36, C52	0805	VJ0805Y105KXQTW1BC	6
22pF	Capacitor	C8, C9, C16, C17, C31, C47	FP_0805_CAP_085	CAP 22pF	6
	22uF 1210 10% 16V X5R				
CL32A226KOJNNNE	CL32A226KOJNNNE (SAM) [82-08-05]	C18, C19, C20, C21, C32, C33, C48, C49	1210	CL32A226KOJNNNE	8
	SMD Multilayer Ceramic Capacitor, 1210 [3225				
	Metric], 10 μF, 10 V, ± 10%, X7R, WCAP-CSGP	C22, C23, C26, C27,			
885012209005	Series	C34, C35, C50, C51	1210	885012209005	8
	3.3nF 0805 5% 25V NP0 CC0805JRNP08BN332				
CC0805JRNP08BN332	(YAG) [82-04-69] 3A 40V DO-214AC	C25, C29, C37, C53	0805	CC0805JRNP08BN332	4
	SCH.RECT. SS34A (YET) SMA (SK34A;SX34) [83-				
SS32A	02-56] 5mm diameter via with	D1, D2	DO-214AC(SMA)	SS32A	2
M3 screw drillhole	3mm hole	11, 12, 13, 14	3mm diameter drill	M3 screw drillhole	4
	TÁPCSATL. 2.00mm 4P APA 90° NCW 200S-04R				
43-17-42	(G-S) FORR. [43-17-42] PCB terminal block,	Inkrement	43-17-42	43-17-42	1
	nominal current: 32 A, nom. voltage: 400 V,				
1935776	pitch: 5 mm, number of positions: 2	J1, J8	PT 2,5/ 2-5,0-H	1935776	2
3-Pin HEADER		J2, J3	3-Pin HEADER	3-Pin HEADER	2
4-Pin Header		J4, J5, PRG	4-Pin Header	4-Pin Header	3
	TÜSKESOR 2 P SMD SPHSS220-B02-4/3 (T-T)				
	2mm PIN 0.5x0.5 TÖRDELHETÖ [43-10-37	JUMP, JUMP1, JUMP2,			
2-Pin Header	Power Inductor (SMD),	JUMP3, JUMP4, UART	2-Pin Header	2-Pin Header	6
	4.7 μH, 4.2 A, Wirewound, 5.8 A, VLS-				
VLS6045EX-4R7M	EX Series, 6mm x 6mm x 4.5mm	L1, L2, L3	TDK_IND_6045	VLS6045EX-4R7M	3
	Power Inductor (SMD), 3.3 µH, 4.2 A,				
	Wirewound, 5.2 A, VLS- EX series, 5mm x 5mm x				
VLS5045EX-3R3N	4.5mm LED, Low Power, Red,	L5	TDK_IND_5045	VLS5045EX-3R3N	1
KPT-2012SURCK	SMD, 2 mA, 1.95 V, 630 nm	L6	0808-LED	KPT-2012SURCK	1
		R1, R2, R3, R8, R14,			
10K	Resistor	R17, R18, R19, R20, R21, R22, R23, R24, R25	FP_0805_RES	RES 10K	14
CR0805-FX-1963ELF	SMD Chip Resistor, 196kOhm, 0805	R4, R9	0805-W	CR0805-FX-1963ELF	2
CR0805-FX-1333ELF	SMD Chip Resistor, 133kOhm, 0805	R5	0805-W	CR0805-FX-1333ELF	1
CR0805-FX-2402ELF	SMD Chip Resistor, 24kOhm, 0805	R6, R7, R10	0805-W	CR0805-FX-2402ELF	3
	SMD Chip Resistor, 84.5 kohm, CRCW				
	Series, 150 V, Thick Film, 0805 [2012				
CRCW080584K5FKEA	Metric], 125 mW SMD Chip Resistor,	R15	0805-W	CRCW080584K5FKEA	1
	Ceramic, 25.5 kohm, MCMR Series, 150 V,				
MCMR08X2552FTL	Thick Film, 0805 [2012 Metric], 125 mW	R16	0805-W	MCMR08X2552FTL	1
	HEXFET 2Power MOSFET, Vdss=30V,				
IRLR8743TRLPBF	Rdson=3.1mOhm, Qg=39nC, Id=160A	U1, U3, U4, U7	TO-252 (DPAK)	IRLR8743TRLPBF	4
IRS2186STRPBF	High and Low Side Driver	U2, U6	8-Pin SOIC	IRS2186STRPBF	2
	Value-line ARM® - based 32-bit MCU with	,		Z 1005 INF DI	2
	up to 256 KB Flash, timers, ADC,				
	communication interfaces, 2.4-3.6 V				
STM32F030K6T6	operation	U5	LQFP-32	STM32F030K6T6	1
	DC-DC Switching (Step Down) Regulator,				
	Adjustable, 700 kHz, 4.5-18Vin, up to 7V/2Aout, SO		8-Pin HSOP with		
TPS54227DDAR	PowerPAD-8	U8, U9, U10, U12	8-Pin HSOP with ThermalPad	TPS54227DDAR	4
BCV72	NPN general purpose transistors	U13	SOT23	BCV72	1
	Crystal, 8 MHz, SMD, 11.5mm x 4.7mm, 50				
ABLS-8.000MHZ-B4-T	ppm, 18 pF, 30 ppm, ABLS Series	Y1	HC/49US (AT49)	ABLS-8.000MHZ-B4-T	1