







	Description	Designator	Footprint	LibRef	Quantity
T_PLUG	LiPo battery T plug connector	?, 11V		T_PLUG	
64-pin STM32F4 chip					
with symbol for Foxcar Control Board v1.		1	LQFP64	STM32F4R_64PIN_FOXC AR	
		5V, 7V_A, 7V_B, CH1,			
3-Pin HEADER	General Purpose	CH2, CH3, CH4	3-Pin HEADER	3-Pin HEADER	
	Metallized Polyester				
R60DF4220506AJ	Film Capacitor, 2.2 uF, 40 VAC, 63 VDC, 5 %	C1, C10	10mm lead spacing CAP	R60DF4220506AJ	
		C2, C5, C6, C8, C11,			
100nF	Capacitor	C12, C13	FP_0805_CAP_085	CAP 100nF	
	SMD Multilayer Ceramic				
	Capacitor, 0805 [2012 Metric], 0.1 µF, 50 V, ±				
VJ0805Y104JXATW1BC	5%, X7R, VJ Series	C2, C11	0805	VJ0805Y104JXATW1BC	
	Aluminum Electrolytic Capacitors, 470uF, Low		5mm lead spacing		
EEU-FR1V471	ESR	C3, C12	ELCAP	EEU-FR1V471	
	SMD Multilayer Ceramic				
	Capacitor, 0805 [2012				
VJ0805Y105KXQTW1BC	Metric], 1 μF, 10 V, ± 10%, X7R, VJ Series	C7, C13, C?	0805	VJ0805Y105KXQTW1BC	
C0805C104M5RACTU	Multilayer Ceramic				
	Capacitors MLCC - SMD/SMT 50V 0.1uF				
	X7R 0805 20%	C?	0805	C0805C104M5RACTU	
	Multilayer Ceramic Capacitors MLCC -				
	SMD/SMT 0805 10uF			0.004.04.000/4	
GRM21BR61E106MA73L	25volts X5R 20% Multilayer Ceramic	C?	0805	GRM21BR61E106MA73L	
	Capacitors MLCC -				
	SMD/SMT 1210 25V 22uF 10% X7R AEC-				
TMK325B7226KMHP	Q200	C?	1210	TMK325B7226KMHP	
22pF	Capacitor	C_quartz1, C_quartz2	FP_0805_CAP_085	CAP 22pF	
CAN transceiver	CAN transceiver	CAN1	SOIC-8	SN65HVD230	
Connector	4pin Connector	CAN, SWD	FP_CONN4_TUSKE_254 MM	Connector_4pin	
	TÜSKESOR 2 P SMD			,	
	SPHSS220-B02-4/3 (T-T) 2mm PIN 0.5x0.5				
2 Din Hoodor	TÖRDELHETÖ [43-10-	CH1, CH1N, CH2, CH2N, UART	2-Pin Header	2-Pin Header	
2-Pin Header	37], [NoValue] 3A 40V DO-214AC	UART	2-Pin Header	2-PIII Header	
	SCH.RECT. SS34A (YET)				
SS32A	SMA (SK34A;SX34) [83- 02-56]	D1, D2	DO-214AC(SMA)	SS32A	
	5mm diameter via with				
M3 screw drillhole	3mm hole	11, 12, 13, 14	3mm diameter drill	M3 screw drillhole	
	TÁPCSATL. 2.00mm 4P				
43-17-42	APA 90° NCW200S-04R (G-S) FORR. [43-17-42]	Inkrement	43-17-42	43-17-42	
	PCB terminal block,				
	nominal current: 32 A, nom. voltage: 400 V,				
102577/	pitch: 5 mm, number of	13	DT 2 5 / 2 5 0 11	100577/	
1935776	positions: 2 Fixed Inductors 5.6uH	J1	PT 2,5/ 2-5,0-H	1935776	
SDR1307-5R6ML	20% SMD 1307	L?	SDR1307	SDR1307-5R6ML	
	Fixed Inductors 12uH	L?	SDR1307	SDR1307-120ML	
	20% SMD 1307				
SDR1307-120ML RT9013 LDO Voltage	20% SMD 1307				
RT9013 LDO Voltage Regulator	20% SMD 1307 LDO Voltage Regulator	LDO*	RT9013_SOT23	RT9013	
RT9013 LDO Voltage	20% SMD 1307 LDO Voltage Regulator Red LED		RT9013_SOT23 FP_0805_LED_RED		
RT9013 LDO Voltage Regulator	20% SMD 1307 LDO Voltage Regulator Red LED USB Connector, USB Type A, USB 2.0,	LDO*		RT9013	
RT9013 LDO Voltage Regulator	20% SMD 1307 LDO Voltage Regulator Red LED USB Connector, USB Type A, USB 2.0, Receptacle, 4 Ways,	LDO*		RT9013	
RT9013 LDO Voltage Regulator LED Red	20% SMD 1307 LDO Voltage Regulator Red LED USB Connector, USB Type A, USB 2.0,	LDO*	FP_0805_LED_RED MC32593	RT9013	
RT9013 LDO Voltage Regulator LED Red MC32593	20% SMD 1307 LDO Voltage Regulator Red LED USB Connector, USB Type A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount,	LDO* LED? P? R4	FP_0805_LED_RED	RT9013 LED Red	
RT9013 LDO Voltage Regulator LED Red MC32593	20% SMD 1307 LDO Voltage Regulator Red LED USB Connector, USB Type A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount, Right Angle	LDO* LED? P?	FP_0805_LED_RED MC32593	RT9013 LED Red MC32593	
RT9013 LDO Voltage Regulator	20% SMD 1307 LDO Voltage Regulator Red LED USB Connector, USB Type A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount, Right Angle	LDO* LED? P? R4 R17, R18, R20, R21,	FP_0805_LED_RED MC32593	RT9013 LED Red MC32593	
RT9013 LDO Voltage Regulator LED Red MC32593	20% SMD 1307 LDO Voltage Regulator Red LED USB Connector, USB Type A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount, Right Angle Resistor	LDO* LED? P? R4 R17, R18, R20, R21, R22, R23, R24, R25,	FP_0805_LED_RED MC32593 FP_0805_RES	RT9013 LED Red MC32593 RES 47K	
RT9013 LDO Voltage Regulator LED Red MC32593 47K	20% SMD 1307 LDO Voltage Regulator Red LED USB Connector, USB Type A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount, Right Angle Resistor Thick Film Resistors - SMD 200hm 1%	LDO* (LED? P? R4 R17, R18, R20, R21, R22, R23, R24, R25, R_boot	FP_0805_LED_RED MC32593 FP_0805_RES FP_0805_RES	RT9013 LED Red MC32593 RES 47K	
RT9013 LDO Voltage Regulator LED Red MC32593 47K 10K CR0805-FX-20R0ELF	20% SMD 1307 LDO Voltage Regulator Red LED USE Connector, USB Type A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount, Right Angle Resistor Resistor Thick Film Resistors - SMD 200mm 1%	LDO* (LED? P? R4 R17, R18, R20, R21, R22, R23, R24, R25, R_boot	FP_0805_LED_RED MC32593 FP_0805_RES FP_0805_RES 0805	RT9013 LED Red MC32593 RES 47K RES 10K CR0805-FX-20R0ELF	
RT9013 LDO Voltage Regulator LED Red MC32593 47K	20% SMD 1307 LDO Voltage Regulator Red LED USB Connector, USB Type A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount, Right Angle Resistor Resistor Thick Film Resistors - SMD 20ohm 1% Thick Film Resistors - SMD 170watt 10Kohms 1% Thick Film Resistors -	LDO* LED? P? R4 R17, R18, R20, R21, R22, R23, R24, R25, R, boot	FP_0805_LED_RED MC32593 FP_0805_RES FP_0805_RES	RT9013 LED Red MC32593 RES 47K	
RT9013 LDO Voltage Regulator LED Red MC32593 47K 10K CR0805-F.X-20R0ELF CRCW060310K0FKEA	20% SMD 1307 LDO Voltage Regulator Red LED USB Connector, USB Type A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount, Right Angle Resistor Resistor Thick Film Resistors - SMD 200chm 1% Thick Film Resistors - SMD 170 wat 10Kohms 5MD 1710 wat 10Kohms 1%	LDO* LED? P? R4 R17, R18, R20, R21, R22, R23, R24, R25, R, boot	FP_0805_LED_RED MC32593 FP_0805_RES FP_0805_RES 0805	RT9013 LED Red MC32593 RES 47K RES 10K CR0805-FX-20R0ELF CRCW060310K0FKEA	
RT9013 LDO Voltage Regulator LED Red MC32593 47K 10K CR0805-FX-20R0ELF	20% SMD 1307 LDO Voltage Regulator Red LED Wiss Connector, USB Type A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount, Right Angle Resistor Resistor Thick Film Resistors - SMD 200hm 1% Thick Film Resistors - SMD 1710watt 10K0hms 1% Thick Film Resistors - SMD 1710watt Resistor	DO* LED? P? R4 R17, R18, R20, R21, R22, R23, R24, R25, R_boot R?	FP_0805_LED_RED MC32593 FP_0805_RES FP_0805_RES 0805	RT9013 LED Red MC32593 RES 47K RES 10K CR0805-FX-20R0ELF	
RT9013 LDO Voltage Regulator LED Red MC32593 47K 10K CR0805-FX-20R0ELF CRCW060310K0FKEA	20% SMD 1307 LDO Voltage Regulator Red LED USB Connector, USB Type A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount, Right Angle Resistor Resistor Thick Film Resistors - SMD 20ohm 1% Thick Film Resistors - SMD 1/10watt 10Kohms 1% Thick Film Resistors - SMD 1/10watt 52, 380hms 1% Thick Film Resistors - SMD 1/10watt 52, 380hms 1% Thick Film Resistors - SMD 1/10watt 52, 380hms 1%	DO* LED? P? R4 R17, R18, R20, R21, R22, R23, R24, R25, R, Doot R?	FP_0805_LED_RED MC32593 FP_0805_RES FP_0805_RES 0805 0603_RES	RT9013 LED Red MC32593 RES 47K RES 10K CR0805-FX-20R0ELF CRCW060310K0FKEA CRCW060352K3FKEA	
RT9013 LDO Voltage Regulator LED Red MC32593 47K 10K CR0805-FX-20R0ELF CRCW060310K0FKEA CRCW060352K3FKEA	20% SMD 1307 LDO Voltage Regulator Red LED USB Connector, USB Type A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount, Right Angle Resistor Thick Film Resistors - SMD 200mm 1% Thick Film Resistors - SMD 1710watt 10Kohms 1% Thick Film Resistors - SMD 1710watt 52.3Kohms 1% Thick Film Resistors - SMD 1710watt 52.3Kohms 1% Thick Film Resistors - SMD 1710watt 53.3Kohms 1% Thick Film Resistors - SMD 1710watt 54.3Kohms 1% Thick Film Resistors - SMD 1710watt 55.3Kohms 1% Thick Film Resistors - SMD 1710watt 56.3Kohms 1% Thick Film Resistors - SMD 1710watt 57.3Kohms 1% SMD 1710watt 58.3Kohms 1% SMD 1710watt 59.3Kohms	LDO* LED7 P7 R4 R17, R18, R20, R21, R22, R23, R24, R25, R_boot R7 R7 R7	FP_0805_LED_RED MC32593 FP_0805_RES FP_0805_RES 0805 0603_RES 0603_RES	RT9013 LED Red MC32593 RES 47K RES 10K CR0805-FX-20R0ELF CRCW060310K0FKEA CRCW060352K3FKEA	
RT9013 LDO Voltage Regulator LED Red MC32593 47K 10K CR0805-FX-20R0ELF CRCW060310K0FKEA CRCW060352K3FKEA CRCW060380K6FKEA	20% SMD 1307 LDO Voltage Regulator Red LED USB Connector, USB Type A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount, Right Angle Resistor Resistors SMD 170-watt 10Kohms 1% Thick Film Resistors - SMD 1710-watt SMD 1710-watt Resistors SMD 1810-Watt Resistors	DO* LED? R4 R17, R18, R20, R21, R22, R23, R24, R25, R, boot R? R? R?	FP_0805_LED_RED MC32593 FP_0805_RES FP_0805_RES 0603_RES 0603_RES 0603_RES	RT9013 LED Red MC32593 RES 47K RES 10K CR0805-FX-20R0ELF CRCW060310K0FKEA CRCW060352K3FKEA CRCW060380K6FKEA	
RT9013 LDO Voltage Regulator LED Red MC32593 47K 10K CR0805-FX-20R0ELF CRCW060310K0FKEA CRCW060352K3FKEA CRCW060380K6FKEA RC0603FR-0730RL 1K	20% SMD 1307 LDO Voltage Regulator Red LED USB Connector, USB Type A, USB 2:0, Receptacle, 4 Ways, Through Hole Mount, Right Angle Resistor Resistor Thick Film Resistors - SMD 20ohm 1% Thick Film Resistors - SMD 1710watt 10Kohms 1% Thick Film Resistors - SMD 1710watt 10Kohms 1% Thick Film Resistors - SMD 1710watt 10Kohms 1% Thick Film Resistors - SMD 1710watt 52.3 Kohms 1% Thick Film Resistors - SMD 1710watt 80.6 Kohms 1% Thick Film Resistors - SMD 1710watt 80.6 Kohms 1% Thick Film Resistors - SMD 30 OHM 1% Resistor	DO* LED? R4 R17, R18, R20, R21, R22, R23, R24, R25, R_boot R? R? R? R? R? R? R? R?	FP_0805_LED_RED MC32593 FP_0805_RES 6003_RES 6003_RES 6003_RES 6003_RES 6003_RES 6003_RES 6003_RES	RT9013 LED Red MC32593 RES 47K RES 10K CR0805-FX-20R0ELF CRCW060310K0FKEA CRCW060352K3FKEA CRCW060358C6FKEA RC0603FR-0730RL RES 1K	
RT9013 LDO Voltage Regulator LED Red MC32593 47K 10K CR0805-F.X-20R0ELF CRCW060310K0FKEA	20% SMD 1307 LDO Voltage Regulator Red LED USB Connector, USB Type A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount, Right Angle Resistor Thick Film Resistors - SMD 200mm 1% Thick Film Resistors - SMD 170watt 10Kohms 1% Thick Film Resistors - SMD 1710watt 10Kohms 1% Thick Film Resistors - SMD 30 OHM 1% Resistor Resistor Resistor Resistor	DO* LED? R4 R17, R18, R20, R21, R22, R23, R24, R25, R, boot R? R? R?	FP_0805_LED_RED MC32593 FP_0805_RES FP_0805_RES 0603_RES 0603_RES 0603_RES	RT9013 LED Red MC32593 RES 47K RES 10K CR0805-FX-20R0ELF CRCW060310K0FKEA CRCW060352K3FKEA CRCW060380K6FKEA	
RT9013 LDO Voltage Regulator LED Red MC32593 47K 10K CR0805-FX-20R0ELF CRCW060310K0FKEA CRCW060352K3FKEA CRCW060380K6FKEA RC0603FR-0730RL 1K	20% SMD 1307 LDO Voltage Regulator Red LED USB Connector, USB Type A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount, Right Angle Resistor Thick Film Resistors - SMD 200chm 1% Thick Film Resistors - SMD 170watt 10Kohms 1% Thick Film Resistors - SMD 1710watt 10Kohms 1% Thick Film Resistors - SMD 30 OHM 1% Resistor Resistor Resistor Resistor Resistor Resistor	DO* LED? R4 R17, R18, R20, R21, R22, R23, R24, R25, R_boot R? R? R? R? R? R? R? R?	FP_0805_LED_RED MC32593 FP_0805_RES 6003_RES 6003_RES 6003_RES 6003_RES 6003_RES 6003_RES 6003_RES	RT9013 LED Red MC32593 RES 47K RES 10K CR0805-FX-20R0ELF CRCW060310K0FKEA CRCW060352K3FKEA CRCW060358C6FKEA RC0603FR-0730RL RES 1K	
RT9013 LDO Voltage Regulator LED Red MC32593 47K 10K CR0805-FX-20R0ELF CRCW060310K0FKEA CRCW060352K3FKEA CRCW060380K6FKEA RC0603FR-0730RL 1K	20% SMD 1307 LDO Voltage Regulator Red LED USB Connector, USB Type A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount, Right Angle Resistor	DO* LED? R4 R17, R18, R20, R21, R22, R23, R24, R25, R_boot R? R? R? R? R? R? R? R? RR R	FP_0805_LED_RED MC32593 FP_0805_RES FP_0805_RES 0603_RES 0603_RES 0603_RES 0603_RES FP_0805_RES	RT9013 LED Red MC32593 RES 47K RES 10K CR0805-FX-20R0ELF CRCW060310K0FKEA CRCW060352K3FKEA CRCW060358C6FKEA RC0603FR-0730RL RES 1K	
RT9013 LDO Voltage Regulator LED Red MC32593 47K 10K CR0805-FX-20R0ELF CRCW060310K0FKEA CRCW060352K3FKEA CRCW060358K6FKEA RC0603FR-0730RL IK IK IL20R	20% SMD 1307 LDO Voltage Regulator Red LED USB Connector, USB Type A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount, Right Angle Resistor Resistors SMD 17/10watt 10Kohms 1% 52. 3Kohms 1% Thick Film Resistors - SMD 17/10watt 52. 3Kohms 1% Thick Film Resistors - SMD 17/10watt 52. 3Kohms 1% Thick Film Resistors SMD 17/10watt 69. 0Kohms 1% Thick Film Resistors SMD 17/10watt 69. 0Kohms 1% Resistor	DO* LED? R4 R17, R18, R20, R21, R22, R24, R25, R, boot R7 R7 R7 R7 R7 RR R7 R1	FP_0805_LED_RED MC32593 FP_0805_RES FP_0805_RES 0603_RES 0603_RES 0603_RES 0603_RES TO-252 (DPAK)	RT9013 LED Red MC32593 RES 47K RES 10K CRO805-FX-20R0ELF CRCW060310K0FKEA CRCW060352K3FKEA CRCW060380K6FKEA RC0603FR-0730RL RES 1K RES 120R	
RT9013 LDO Voltage Regulator LED Red MC32593 47K 10K CR0805-FX-20R0ELF CRCW060310K0FKEA CRCW060352K3FKEA CRCW060358K6FKEA RC0603FR-0730RL IK IK IL20R	20% SMD 1307 Red LED USB Connector, USB Type A, USB 2.0, Respective A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount, Right Angle Resistor Thick Film Resistors - SMD 200chm 1% Thick Film Resistors - SMD 1710watt 10Kohms 1% Thick Film Resistors - SMD 1710watt 8.0 Kohms 1% Thick Film Resistors - SMD 30 OHM 1% Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor	DO* LED? R4 R17, R18, R20, R21, R22, R23, R24, R25, R_boot R? R? R? R? R? R? R? R? RR R	FP_0805_LED_RED MC32593 FP_0805_RES FP_0805_RES 0603_RES 0603_RES 0603_RES 0603_RES FP_0805_RES	RT9013 LED Red MC32593 RES 47K RES 10K CR0805-FX-20R0ELF CRCW060310K0FKEA CRCW060352K3FKEA CRCW060380K6FKEA RC0603FR-0730RL RES 1K RES 120R	
RT9013 LDO Voltage Regulator LED Red MC32593 47K 10K CR0805-FX-20R0ELF CRCW060310K0FKEA CRCW060352K3FKEA CRCW060380K6FKEA RC0603FR-0730RL 1K 120R	20% SMD 1307 Red LED USB Connector, USB Type A, USB 2.0, USB 2.0, USB Connector, USB Type A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount, Right Angle Resistor Thick Film Resistors - SMD 200chm 1% Thick Film Resistors - SMD 1710watt 10Kohms 1% Thick Film Resistors - SMD 1710watt 10Kohms 1% Thick Film Resistors - SMD 1710watt 52. 3Kohms 1% Thick Film Resistors - SMD 1710watt 80.0 Kohms 1% Thick Film Resistors - SMD 1710watt 80.0 Kohms 1% Thick Film Resistors - SMD 130 OHM 1% Resistor HEXET 2Power MOSFET, VGS=30V, Rdson = 3.1 mOhm, Qg-39nC, Id-160A High and Low Side Driver 4.5-V to 24-V Input, 3-A	DO* LED? R4 R17, R18, R20, R21, R22, R24, R25, R, boot R7 R7 R7 R7 R7 RR R7 R1	FP_0805_LED_RED MC32593 FP_0805_RES FP_0805_RES 0603_RES 0603_RES 0603_RES 0603_RES TO-252 (DPAK)	RT9013 LED Red MC32593 RES 47K RES 10K CRO805-FX-20R0ELF CRCW060310K0FKEA CRCW060352K3FKEA CRCW060380K6FKEA RC0603FR-0730RL RES 1K RES 120R	
RT9013 LDO Voltage Regulator LED Red MC32593 47K 10K CR0805-FX-20R0ELF CRCW060310K0FKEA CRCW060352K3FKEA CRCW060358K6FKEA RC0603FR-0730RL IK IK IL20R	20% SMD 1307 LDO Voltage Regulator Red LED USB Connector, USB Type A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount, Right Angle Resistor Resistors Resistor Resistors Resistor	DO* LED? R4 R17, R18, R20, R21, R22, R24, R25, R, boot R7 R7 R7 R7 R7 RR R7 R1	FP_0805_LED_RED MC32593 FP_0805_RES FP_0805_RES 0603_RES 0603_RES 0603_RES 0603_RES TO-252 (DPAK)	RT9013 LED Red MC32593 RES 47K RES 10K CRO805-FX-20R0ELF CRCW060310K0FKEA CRCW060352K3FKEA CRCW060380K6FKEA RC0603FR-0730RL RES 1K RES 120R	