

Quantity	Reference	Value	Package	Part Number
ARCU PCB				
3	R1, R4, R5	10K, 5%, 1/8W	0805	RMCF0805JT10K0
2	R2, R3	22, 5%, 1/8W	0805	RMCF0805JT22R0
2	C1, C2	22pF, 1%, 10V	0805	CL21C220FBANNNC
1	C3	1uF, 10%, 10V	0805	CL21B105KAFNNNE
3	C4, C7, C8	.1uF, 10%, 10V	0805	CL21B104KBCNNNC
1	C5	10uF, 10%, 10V	0805	CL21A106KPFNNNE
1	C6	22uF, 10%, 10V	0805	CL21A226MQCLQNC
1	D1	Schottky Diode, 1A	SOD-323	BAT760-7
1	D2	Blue LED,	0805	LTST-C171TBKT
1	F1	Fuse, Poly, 500mA Hold, 1000mA Trip	1210	0ZCH0050FF2G
1	P1	Female 1x3 Locking Polarized Conn.	CUSTOM	5-103635-2
1		Male Mating Conn. For P1	NONE	104257-2
3		Pins for P1 Conn.	NONE	104479-8
1	P2	MICRO SD, Push Push	CUSTOM	DM3CS-SF
1	U1	ATmega32U4, RC Clock	TQFP-44 10x10mm 0.8mm Pitch	ATMEGA32U4RC-AUR
1	U2	AZ1117, 3.3V Fixed Regulator	SOT-223	AZ1117CH-3.3TRG1
1	U3	MPU-9250, 9 Axis IMU, I2C	QFN-40 3mmX3mm Pitch .4mm	MPU-9250
1	U4	ESP-01v090, Serial Wifi Module	CUSTOM	WRL-13678
1	X1	SMD USB OTG, Female Mini USB	CUSTOM	UX60-MB-5ST
1	Y1	Crystal, 8MHz	CUSTOM	ABM3-8.000MHZ-D2Y-T
University of Toledo Rocketry Club				
		Active Roll Control Unit (ARCU)	Rev. A 11/3/2016	

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