

Contents EE-kit

Arduino and Power

# in kit	Component	Datasheet
1	Arduino uno	Link
1	USB A-B 40cm	
1	Breadboard	
1	AD2 Breakout board	
1	2W power bricks (15V)	
1	1W power brick (3.3V)	
1	assortment of jumper wires	
1	mini grabber jumper wire set	
1	5V 3A Power supply	Link

Sensors and Actuators

# in kit	Component	Datasheet
1	microphone	
2	NTC	Link
1	RC servo, mini (SG90)	Link
1	Dc motor	Link
1	battery clip 9V	
2	pushbuttons	
1	piezo buzzer, passive	
2	LDR	Link

Components

# in kit	Component	Datasheet
5	Opamp TLC272	Link
1	Instrumentation amp ina126	Link
1	resistor set 10x : 1.1 2.2 4.7 5.6 10 16 33 47 91 100 120 150 160 200 220 270 300 330 470 560 680 750 820 1k 1.5k 1.6k 2k 2.2k 2.7k 3.3k 3.9k 4.7k 5.1k 6.2k 7.5k 9.1k 10k 11k 18k 22k 47k 51k 82k 100k 220k 470k 1.2M 2.7M 3.6M 4.3M	
3x	leaded nonpolar capacitor set ceramic (15p, 20p 30p, 47p, 100p, 220p, 470p, 1.0n,2.2n,3.3n,4.7n,6.8n,8.2n,10n,22n,33n,47n,68n,82n,100n,220n,330n,470n,680n,1 u)	
2x	leaded polar capacitor set (1uF/25V 10uF/25V, 22uF/25V, 47uF/25V)	
1	Inductor set (100uH, 470uH, 10mH, 22mH. 47mH, 100mH)	
3x	transistors set 2N2904 , STP16NF06L , bc550 , bc560 , bs170 , bf199 , ZVP2106A , BD139 , BD140 , TIP2955 , 3055 , IRF530 , 5530	In component column
	50cm thick (~1mm) Cu wire to wind inductors	
10	LEDs (various colors)	
	diodes (SB240 (Pre/Project), 1N4148, etc)	
2	timer NE555	
1	potentiometer, ALPS, 10k	
2	photodiodes	
1	CD4066BE CMOS switch in DIP package	Link
2	1x15 NSR Header 2.54mm pitch Male	
1	2x15 NSR Header 2.54mm pitch female	