

HC-SR04 Ultrasonic Train Detector BOM

<u>RefDes</u>	<u>Value</u>	<u>Name</u>	<u>Manufacturer</u>	<u>Pattern</u>	<u>Notes</u>
C1	1uf 50V	K105Z20Y5VF5TL2	Vishay	CAPPR-2.54/5.08	
C2	470uf 35V	ESK477M035AH2AA	Kemet	CAPR-5/10.5h14.5	
C3	220uf 16V	URS1C221MPD1TA	Nichicon	CAPPR-5/10.5h14	
C4	.022 50V	K223K10X7RF5UH5	Vishay	CAP-5.08/9.15x3	
C5	.1uf 50V	K104K15X7RF5TH5	Vishay	CAP-5.08/9.15x3	
C6	.1uf 50V	K104K15X7RF5TH5	Vishay	CAP-5.08/9.15x3	
D1	1A 100V	CBR1-D010	Central Semiconductor	DB-DIP	
D2	1A	1N4003	Fairchild	DO-41	
D3	1A	1N4003	Fairchild	DO-41	
J1		1986717-2	TE Connectivity	TBH-1x2/3.5/6x3	
J2		1986717-3	TE Connectivity	TBH-1x3/3.5/10x3	
K1	10A	SRD-05VDC-SL-C	Songle	G5LE	Select K1 or K2
K2	3A	HK4100F-DC5V-SHG	Huike	HK4100F	Select K1 or K2
POT1	200K	3306F	Bourns	3306F	
POT2	200K	3306F	Bourns	3306F	
Q1	700MA	KSC1008YBU	On Semiconductor	TO-92	
Q2	700MA	KSC1008YBU	On Semiconductor	TO-92	
R1	150K	CFM14JT150K	Stackpole	RES-12.7/7.6x2.5	
R2	51	CFR-25JB-52-51R	Yageo	RES-12.7/7.6x2.5	
R3	4.7K	CFR-25JB-52-4K7	Yageo	RES-12.7/7.6x2.5	
R4	4.7K	CFR-25JB-52-4K7	Yageo	RES-12.7/7.6x2.5	
R5	4.7K	CFR-25JB-52-4K7	Yageo	RES-12.7/7.6x2.5	
R6	4.7K	CFR-25JB-52-4K7	Yageo	RES-12.7/7.6x2.5	
R7	4.7K	CFR-25JB-52-4K7	Yageo	RES-12.7/7.6x2.5	
U1		LM555CN	National Semiconductor	DIP-8	
U2		MM74HC123AN	On Semiconductor	DIP-16	
U3	HC-SR04	HC-SR04 Ultrasonic Sensor	AdaFruit	HC-SR04	
U4	.5A	R-78E5.0	Recom	5V DC-DC Conv	Can Use LM7805 with HK4100F