

Materials List for:

Design and Construction of a Cost Effective Headstage for Simultaneous Neural Stimulation and Recording in the Water Maze

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Materials

Name	Company	Catalog Number	Comments
Custom designed Integrated Circuit Board	ExpressPCB.com	Custom	2 layer double sided PCB
Surface mount Resistors	Mouser Electronics	RK73B1JTTDD156J	1/10 W, 15 M Ohm 0603, Thick film
SMD Capacitors	Newark Inc	0402YD104KAT2A	0.1 uF (0402)
SMD Operational Amplifier (quad FET)	Mouser Electronics	595-TLC2274AIPW	Quad FET - low noise
9 pin ABS socket	Ginder Scientific	GS09SKT-220	For animal connection
9-pin ABS Plug	Ginder Scientific	GS09PLG-220	To be implanted in animal
Black Delrin Ring Nut	Ginder Scientific	GS09BDN-220	
Black Delrin Cap Nut	Ginder Scientific	GS09BDC-220	For protecting animal's implant
Amphenol pins (male)	Ginder Scientific	220-P02	
Amphenol pins (female)	Ginder Scientific	220-S02	
5-minute epoxy	Devcon Inc.	S-208 / 20845	
Poster Tack Putty	Elmer's	026000015318	
Rosin Core Solder	Radio Shack	64-009	
Soldering Iron	Weller	Pyropen WSTA6	(adjustable heat)
Metal tweezers	Fine Science Tools	Size 5	
Parafilm sheets	American National Can	Parafilm 4" x 250'	
Magnet wire	Belden	8052	Enamel Coated
Ammeter/ Multimeter	Fluke Biomedical	77 Multimeter	
Millmax Double Row Headers	Mill-Max	575 - 002101	0.05"
Solder Wick	Chemtronics	7-10L	0.75 in.