

EEG Calibrator Bill of Materials

Resistors

R1	1E8	all resistors 1% 0603 SMT
R17	4E99	
R16	15E	
R15	180E	
R9	1K	
R11, R12	15K	
R8	18K	
R10	20K	
R7	23K7	
R5, R6	100K	
R2	178K	(can use 180K and then check R7/R8 ratio)
R14	200K	
R3	562K	(can use 560K and then check R7/R8 ratio)
R4	1M	

Capacitors

C2, C4	100nF 10% X7R ceramic 0603 SMT
C6, C7, C8	47nF 10% X7R ceramic 0603 SMT
C1, C3	10uF 16V tantalum 6032-28 case "C"
C9	33uF 10V tantalum 6032-28 case "C"

Semiconductors

IC1	TPS61070DDCR	(SOT23-6)	Texas Instruments
IC2	PIC16F785-I/SS	(SSOP-20)	Microchip
D1	BAT54 or BAT54C or BAT54S	(SOT-23)	
	(marked L4P, L43 or L44 respectively)		
LD1	LED, Red, 3mm		

Misc

L1	4.7uH 55017-A2 6.35mm OD Toroid with 6 turns of ECW
	Other inductors in the region of 3 to 7uH should be fine but small SMT components are likely to saturate and should thus not be used
SW1	SPDT sub-miniature upright pcb mount
SW2	8-way DIP switch (through hole component to fit into 16pin "wire-wrap" IC socket
SW3	push-to-make miniature switch
J1	5-way SIL pin header
J2	4-way SIL "wire-wrap" socket