Psoc5power

PSOC 5 Bill of Materials

Ref	Part
B1 B2	26-pin headers 2.54 mm spacing (break off 40-pin header strip) 26-pin headers 2.54 mm spacing (break off 40-pin header strip)
C1	4.7 uF 50 V radial electrolytic capacitor
C2	100 uF 50 V radial electrolytic capacitor
C3	330 uF 25 V radial electrolytic capacitor
C4	10 uF 25 V radial electrolytic capacitor
C5	1 uF 50 V radial electrolytic capacitor
C6	1 uF 50 V radial electrolytic capacitor
C7	1 uF 50 V ceramic disc capacitor
C8	1 uF 50 V ceramic disc capacitor
C9	4.7 uF 50 V ceramic disc capacitor
C10	4.7 uF 50 V ceramic disc capacitor
C11	0.1 uF 50 V ceramic disc capacitor
C12	0.1 uF 50 V ceramic disc capacitor
C13	4.7 uF 50 V ceramic disc capacitor
C14	4.7 uF 50 V ceramic disc capacitor
C15	0.1 uF 50 V ceramic disc capacitor
C16	0.1 uF 50 V ceramic disc capacitor
C17	2.2 uF 50 V ceramic disc capacitor
C18	2.2 uF 50 V ceramic disc capacitor
C19	1 uF 50 V ceramic disc capacitor
C20	1 uF 50 V ceramic disc capacitor
C21	330 uF 25 V radial electrolytic capactior
C22	150 pF 50 V ceramic disc capacitor
C23	150 pF 50 V ceramic disc capacitor
C24	150 pF 50 V ceramic disc capacitor
C25	150 pF 50 V ceramic disc capacitor
C26	10 nF 50 V ceramic disc capacitor
C27	10 nF 50 V ceramic disc capacitor
C28	10 nF 50 V ceramic disc capacitor, 2 kV
C29	10 nF 50 V ceramic disc capacitor, 2 kV
C30	1 nF 50 V ceramic disc capacitor
C31	0.1 uF 50 V ceramic disc capacitor
C32	10 nF 50 V ceramic disc capacitor
C33	10 nF 50 V ceramic disc capacitor
C34	1 nF 50 V ceramic disc capacitor
C35	1 nF 50 V ceramic disc capacitor
C36	100 uF 50 V radial electrolytic capacitor
C37	0.1 uF 50 V ceramic disc capacitor
C38	1 nF 50 V ceramic disc capacitor
C39	0.1 uF 50 V ceramic disc capacitor
C40	0.1 uF 50 V ceramic disc capacitor
C41	0.1 uF 50 V ceramic disc capacitor
C42	0.1 uF 50 V ceramic disc capacitor
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C43
         0.1 uF 50 V ceramic disc capacitor
C44
         0.1 uF 50 V ceramic disc capacitor
C45
         150 pF 50 V ceramic disc capacitor
D1
         1N4148
D2
         1N4148
D3
          1N4148
D4
         1N4148
D5
         1N4733A
D6
         1N5819
D7
         1N5819
D8
         1N5819
D9
         1N5819
D10
         3 mm LED (color of your choice)
D11
         3 mm LED (color of your choice)
D12
         3 mm LED (color of your choice)
D13
         3 mm LED (color of your choice)
D19
         1N4148
J1
         5-pin header socket 2.54 mm spacing
J2
          4 position JST 2.54 mm male pin connector
J3
          2 position 5.0/5.04 mm spacing screw terminal block PCB mount
J4
         2 position 5.0/5.04 mm spacing screw terminal block PCB mount
J5
         2 position 5.0/5.04 mm spacing screw terminal block PCB mount
J6
          2 position 5.0/5.04 mm spacing screw terminal block PCB mount
J7
         4 position JST 2.54 mm male pin connector
J8
         4 position JST 2.54 mm male pin connector
J13
          6 position JST 2.54 mm male pin connector
Q1
         IRF9540N
Q2
         IRF540N
Q3
         IRF9540N
Q4
         IRF540N
Q5
         IRF9540N
Q6
         IRF540N
Q7
         IRF9540N
Q8
         IRF540N
Q9
         2N7000
Q10
         2N7000
Q11
         2N7000
012
         2N7000
R1
          1k ¼ watt resistor
R2
         1k 1/4 watt resistor
R3
         1k 1/4 watt resistor
         1k 1/4 watt resistor
R4
R5
         15R 2 watt resistor
R6
         15R 2 watt resistor
R7
         3R3 2 watt resistor
R8
         100R 1 watt resistor
R9
         100R 1 watt resistor
R10
         1k 1/4 watt resistor
R11
         100R 1/4 watt resistor
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R12
          1k 1/4 watt resistor
R13
          10k 1/4 watt resistor
R14
          1k 1/4 watt resistor
R15
          2.5k ¼ watt resistor 0.1% precision (e.g. Vishay RN65C2501BB14)
R16
          49.9 ohm 1/4 watt resistor
R17
          2.5k ¼ watt resistor 0.1% precision (e.g. Vishay RN65C2501BB14)
R18
          470R 1/4 watt resistor
R19
          5k ¼ watt resistor 0.1% precision (e.g. Vishay RN55C5001BRE6)
          5k ¼ watt resistor 0.1% precision (e.g. Vishay RN55C5001BRE6)
R20
R21
          5k 1/4 watt resistor 0.1% precision (e.g. Vishay RN55C5001BRE6)
R22
          5k ¼ watt resistor 0.1% precision (e.g. Vishay RN55C5001BRE6)
R23
          1k 1/4 watt resistor
R24
          1k 1/4 watt resistor
R25
          1k ¼ watt resistor
R26
          1k 1/4 watt resistor
R27
          1k 1/4 watt resistor
R28
          10k 1/4 watt resistor
R29
          10k 1/4 watt resistor
R30
          1k 1/4 watt resistor
R31
          10k 1/4 watt resistor
R32
          10k 1/4 watt resistor
R33
          1k 1/4 watt resistor
          1k 1/4 watt resistor
R34
R35
          1k 1/4 watt resistor
R36
          1k 1/4 watt resistor
R38
          100R 1/4 watt resistor
R39
          100R 1/4 watt resistor
R40
          10k 1/4 watt resistor
R41
          1k 1/4 watt resistor
U1
          CY8CKIT-059
          Solder 2.54 mm spacing pin headers into all three sides of target board
U2
          L7812 voltage regulator
U3
          TC7660S voltage converter DIP-8 package
U4
          UCC27423 DIP-8 package
U5
          UCC27423 DIP-8 package
U6
          L7805 voltage regulator
U7
          TL082 JFET dual-op amp IC DIP-8 package
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