

Instituto Federal da Paraíba - IFPB

Disciplina: Técnicas de Prototipagem

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I. Objetivo

O objetivo do projeto consiste em fazer um Kit utilizando o Franzininho e mais alguns componentes eletrônicos aplicando os conhecimentos desenvolvidos ao longo da disciplina.

II. Softwares Utilizados

Fusion 360.

III. Lista de Componentes

Part	Value	Device	Package	Description
D1		LED_RADIALGREEN	LEDRD254W60D565H860B_G	LED - Generic
D2		LED_RADIALGREEN	LEDRD254W60D565H860B_G	LED - Generic
D3		LED_RADIALGREEN	LEDRD254W60D565H860B_G	LED - Generic
D4		LED_RADIALGREEN	LEDRD254W60D565H860B_G	LED - Generic
D5		LED_RADIALGREEN	LEDRD254W60D565H860B_G	LED - Generic
D6		LED_RADIALGREEN	LEDRD254W60D565H860B_G	LED - Generic
D7		LED_RADIALGREEN	LEDRD254W60D565H860B_G	LED - Generic
D8		LED_RADIALGREEN	LEDRD254W60D565H860B_G	LED - Generic
D9	DIODE	DIODEDO-214AB(SMC)	DIOM7959X625N	Diode Rectifier - Generic
DS1	7SEG-CA	7SEG-CA	7SEG-13	7-segment DISPLAY
DS2	7SEG-CA	7SEG-CA	7SEG-13	7-segment DISPLAY
FRANZ1	FRANZININHO	FRANZININHO	FRANZININHO	
J1	694108106102	694108106102	694108106102	WR-DC DC Power Jack Right Angled SMT Ø 6.4 with 4 soldering pads & pegs
JP1	PINHD-1X6	PINHD-1X6	1X06	PIN HEADER
JP2	PINHD-1X10	PINHD-1X10	1X10	PIN HEADER

LS1	AI-1223-TWT-5V-R	AI-1223-TWT-5V-R	XDCR_AI-1223-TWT-5V-R	Check availability
Q1	NPN	NPN_TO18-EB C	TO18	NPN - Generic
Q2	NPN	NPN_TO18-EB C	TO18	NPN - Generic
Q3	NPN	NPN_TO18-EB C	TO18	NPN - Generic
R1	350	R-US_AXIAL-7.2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R2	350	R-US_AXIAL-7.2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R3	350	R-US_AXIAL-7.2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R4	350	R-US_AXIAL-7.2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R5	350	R-US_AXIAL-7.2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R6	350	R-US_AXIAL-7.2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R7	350	R-US_AXIAL-7.2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R8	350	R-US_AXIAL-7.2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R9	350	R-US_AXIAL-7.2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R10	350	R-US_AXIAL-7.2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R11	350	R-US_AXIAL-7.2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R12	350	R-US_AXIAL-7.2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R13	350	R-US_AXIAL-7.2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R14	350	R-US_AXIAL-7.2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R15	350	R-US_AXIAL-7.2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R16	350	R-US_AXIAL-7.2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R17	350	R-US_AXIAL-7.2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R18	350	R-US_AXIAL-7.2MM-PITCH	RESAD724W46L38	Resistor Fixed - ANSI

		2MM-PITCH	1D178B	
R19	350	R-US_AXIAL-7. 2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R20	350	R-US_AXIAL-7. 2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R21	350	R-US_AXIAL-7. 2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R22	350	R-US_AXIAL-7. 2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R23	350	R-US_AXIAL-7. 2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R24	350	R-US_AXIAL-7. 2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
R25	350	R-US_AXIAL-7. 2MM-PITCH	RESAD724W46L38 1D178B	Resistor Fixed - ANSI
U\$1	DISPLAY240X 240IPSTFT	DISPLAY240X2 40IPSTFT	TFT	
U\$2	2828XX-32828 37-3	2828XX-328283 7-3	TERMBLK_508-3N	3 Position Wire to Board Terminal Block Horizontal with Board
U\$3	2828XX-32828 37-3	2828XX-328283 7-3	TERMBLK_508-3N	3 Position Wire to Board Terminal Block Horizontal with Board
U\$4	2828XX-32828 37-3	2828XX-328283 7-3	TERMBLK_508-3N	3 Position Wire to Board Terminal Block Horizontal with Board
U\$5	2828XX-42828 37-4	2828XX-428283 7-4	TERMBLK_508-4N	4 Position Wire to Board Terminal Block Horizontal with Board
U\$6	2828XX-42828 37-4	2828XX-428283 7-4	TERMBLK_508-4N	4 Position Wire to Board Terminal Block Horizontal with Board
U\$7	PROTOBOAR D	PROTOBOARD	PROTOBOARD	
U1	1-1825910-0	1-1825910-0	SWITCH_1-1825910 -0	
U2	1-1825910-0	1-1825910-0	SWITCH_1-1825910 -0	
U3	1-1825910-0	1-1825910-0	SWITCH_1-1825910 -0	
U4	1-1825910-0	1-1825910-0	SWITCH_1-1825910 -0	
U5	1-1825910-0	1-1825910-0	SWITCH_1-1825910 -0	
U6	1-1825910-0	1-1825910-0	SWITCH_1-1825910 -0	

IV. Imagens do Protótipo





