



The image displays four identical circuit diagrams, each representing a different button (BT1, BT2, BT3, BT4) connected to a 3V3 supply and ground. Each circuit includes a 4K7 resistor (R2, R3, R4, R5) and a 104 capacitor (C10, C11, C12, C13). The components are connected in a common-emitter configuration, where the resistor is connected to the 3V3 supply, the capacitor is connected to the button terminal, and the other terminal of the capacitor is connected to ground. The button is connected to the other terminal of the resistor. The ground connection is labeled GND.

Title		
Size B	Number	Revision
Date:	9/27/2025	Sheet of
File:	C:\Users\...\Schematic.SchDoc	Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
Nut Nhan 4 Chan Cam 6x6	Nut Nhan 4 Chan 6x6mm	BT1, BT2, BT3, BT4	Nut Nhan 4 Chan Cam 6x6	Nut Nhan 4 Chan Cam 6x6	4
100uF	Cắm	C1	tu hoa 5mm	Tu Hoa 100uF 25V 6x11	1
104	Cắm	C2, C3, C4, C5, C8, C9, C10, C11, C12, C13	tu gom	Tu gom 104 50V	10
1000uF	Cắm	C6	tu hoa 10mm	Tu Hoa 1000uF 10V 10x12	1
22uF	Cắm	C7	tu hoa 5mm	Tu Hoa 22uF 25V 5x11	1
KF4	4 Position Wire to Board Terminal Block Horizontal with Board 0.197 (5.00mm) Through Hole	J1	4P 5.08	691244710004	1
JACK DC 5.5	JACK DC 5.5	JACK DC1	JACK DC 5.5	JACK DC 5.5	1
SERVO2	Cắm	JP1	JP 1x3 DT	JP 1x3 2.54 Duc Thang	1
LED 3mm	Cắm	L1	LED-3MM-GREEN	LED 3mm Xanh La	1
LCD1602 XL	LCD 1602 Xanh Lá	LCD1	LCD1602 with Jump	LCD1602 XL	1
JP 1x4 2.54	Cắm	LCD CONNECTOR1	JP 1x4 DC	JP 1x4 2.54 Duc Cong	1
Coi Chip Speaker	Còi chip	LS1	Coi Chip Speacker	Coi Chip Speaker	1
Pad_3.2		P1, P2, P3, P4	PCBComponent_1	Pad_3.2mm	4
BC817	SOT-23	Q1	SOT-23	Trans C1815 HF SMD	1
1K	Cắm	R1	tro vach 1/2w	Tro Vach 1/2W 5% 0.33R	1
4K7	Cắm	R2, R3, R4, R5	tro vach 1/4w	Tro Vach 1/4W 1% 7.5R	4
1K	RES SMD 0805	R6	RES 0805	RES 0805	1
KIT STM32F103C8T6	KIT STM32F103C8T6 Bluepill	U1	STM32F103 KIT	STM32f103 Bluepill	1
HX711		U2	HX711	HX711	1
LM7805CT/NOPB	Linear Voltage Regulator IC Positive Fixed 1 Output 1.5A TO-220-3	U3	LM7805	LM7805CT/NOPB	1
LM1117T-3.3/NOPB	800-mA 15-V linear voltage regulator	U4	TO254P1054X470X19 55-3	LM1117T-3.3/NOPB	1