

[illegible]

The figure contains two circuit diagrams for the TPS54202DDCVR buck converter. Both diagrams show the internal pins of the converter (VIN, EN, GND, BOOT, SW, FB) and their external connections.

**Top Diagram: Buck 1 (+VBAT to +5V)**

- VIN:** Connected to +VBAT through a 22μF capacitor (C7) and a 0.1μF capacitor (C2).
- EN:** Connected to +VBAT through a 22μF capacitor (C7) and a 0.1μF capacitor (C2).
- GND:** Connected to ground.
- BOOT:** Connected to SW through a 0.1μF capacitor (C7).
- SW:** Connected to a 15μH inductor (L2) and a 10μF capacitor (C2).
- FB:** Connected to a 10μF capacitor (C2) and a 0.1μF capacitor (C1).
- Output:** Connected to a 15μH inductor (L2) and a 10μF capacitor (C2).
- Diode:** Connected to the output through a 10μF capacitor (C2) and a 0.1μF capacitor (C1).
- Resistor:** Connected to the output through a 10μF capacitor (C2) and a 0.1μF capacitor (C1).

**Bottom Diagram: Buck 2 (+VBAT to +3V3)**

- VIN:** Connected to +VBAT through a 22μF capacitor (C7) and a 0.1μF capacitor (C2).
- EN:** Connected to +VBAT through a 22μF capacitor (C7) and a 0.1μF capacitor (C2).
- GND:** Connected to ground.
- BOOT:** Connected to SW through a 0.1μF capacitor (C7).
- SW:** Connected to a 15μH inductor (L2) and a 10μF capacitor (C2).
- FB:** Connected to a 10μF capacitor (C2) and a 0.1μF capacitor (C1).
- Output:** Connected to a 15μH inductor (L2) and a 10μF capacitor (C2).
- Diode:** Connected to the output through a 10μF capacitor (C2) and a 0.1μF capacitor (C1).
- Resistor:** Connected to the output through a 10μF capacitor (C2) and a 0.1μF capacitor (C1).

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Date: 7/25/2025	Sheet of 1	
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# Board Stack Report